ÚSTAV POLYMÉROV SAV, BRATISLAVA

SPRÁVA O ČINNOSTI ZA ROK 2012

Bratislava, január 2013

Obsah osnovy Správy o činnosti organizácie SAV za rok 2012

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav polymérov SAV
Riaditeľ: Ing. Igor Lacík, DrSc.
1. zástupca riaditeľa: Mgr. Jaroslav Mosnáček, PhD.
2. zástupca riaditeľa: Ing. Zuzana Hloušková
Vedecký tajomník: Ing. Mária Omastová, DrSc.
Predseda vedeckej rady: RNDr. Peter Cifra, DrSc.
Člen snemu SAV: RNDr. Peter Cifra, DrSc.
Adresa: Dúbravská cesta 9, 845 41 Bratislava 45

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Tel.: 02/ 3229 4308
Fax: 02/ 5477 5923
E-mail: upolsekr@savba.sk
Názvy a adresy detašovaných pracovísk:

- **Detašované pracovisko Ústavu polymérov SAV**
  ul. Gen. Svobodu 1069/4, 958 01 Partizánske

Vedúci detašovaných pracovísk:

- **Detašované pracovisko Ústavu polymérov SAV**
  prof. Ing. Ivan Chodák, DrSc.

Typ organizácie: Príspevková od roku 1993

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T
		M	Ž	M	Ž			
Celkový počet zamestnancov	87	34	53	9	22	79	59,55	42,55
Vedeckí pracovníci	42	26	16	4	10	34	31,08	31,08
Odborní pracovníci VŠ	29	7	22	5	12	29	12,67	11,47
Odborní pracovníci ÚS	14	1	13	0	0	14	13,8	0
Ostatní pracovníci	2	0	2	0	0	2	2	0

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2012 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)
F – fyzický stav zamestnancov k 31.12.2012 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)
P – celoročný priemerný prepočítaný počet zamestnancov
T – celoročný priemerný prepočítaný počet riešiteľov projektov
M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2012)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
Muži	8	16	3	1	9	12	5
Ženy	2	13	0	0	2	2	12

Tabuľka 1c Štruktúra pracovníkov podľa veku a rodu, ktorí sú riešiteľmi projektov

Veková štruktúra (roky)	< 31	31-35	36-40	41-45	46-50	51-55	56-60	61-65	> 65
Muži	7	4	6	1	1	0	3	3	4
Ženy	16	3	1	1	1	1	6	2	1

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2012

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	44,4	47,3	44,6
Ženy	41,5	37,2	39,2
Spolu	42,6	43,5	41,8

1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie (v zameraní, v organizačnej štruktúre a pod.)

V roku 2012 fungoval ústav druhý rok s novou organizačnou štruktúrou s piatimi oddeleniami - štyrmi vedeckými a ekonomicko-technickým oddelením. Zdá sa, že zjednotenie oddelení postupne začína spĺnať svoj cieľ, najmä čo sa týka zlepšenia spolupráce vo vnútri ústavu a zjednodušenia štruktúry ústavu smerom navonok. V rámci nových oddelení sa podali niektoré projekty, ktoré vychádzajú so spolupráce zjednotených oddelení. Od septembra 2012 sa zmenil vedúci Oddelenia kompozitných materiálov, kde namiesto Ing. Igor Krupu, PhD., ktorý prijal profesorskú pozíciu na univerzite v Katare, bola za vedúceho oddelenia vymenovaná Ing. Mária Omastová, DrSc. na základe obsadenia druhej pozície v konkurze na vedúceho oddelenia v r. 2011.

V roku 2012 bol Ústav polymérov SAV akreditovaný v rámci pravidelnej akreditácie SAV. Podklady sa začali pripravovať začiatkom roku a akreditácia vyvrcholila v septembri za prítomnosti akreditačnej komisie. Ústav bol zaradený do kategórie A. Akreditačná komisia zhodnotila, že ústav spĺňa kvalitatívne aj kvantitatívne kritériá excelentnosti, je medzinárodne uznávanou organizáciou, má kvalitný základný výskum a tiež prepojenie na aplikačnú oblasť, a splnil doporučenia akreditačnej komisie v predchádzajúcej akreditácii. Doporučenia akreditačnej komisie sa týkajú využitia príležitostí pre prenos technológií, získania zahraničných doktorandov a post-doktorandov, spolu s vytvorením finančnej podpory pre zahraničných študentov, a celkovo doporučila pokračovať v kvalitnom doktorandskom vzdelávaní.

V roku 2012 ústav oslávil 50. výročie svojho založenia. Oslava sa uskutočnila v Kongresovom centre Smolenice za účasti hlavných predstaviteľov P SAV, riaditeľov chemických ústavov SAV, niektorých chemických katedier slovenských univerzít a riaditeľa Ústavu makromolekulovej chemie Akadémie vied Českej republiky.

Ústav polymérov SAV pokračoval v riešení štrukturálnych fondov Machina II a Centrum aplikovaného výskumu nanočastíc. V rámci štrukturálnych fondov Ústav polymérov získal nové

prístroje, ktoré významne posunú výskum na ústave na vyššiu úroveň a umožnia rozšíriť jeho spoluprácu s domácimi a zahraničnými výskumnými pracoviskami ako aj s firmami.
V roku 2012 skončili všetky 3 projekty 7. Rámcového programu EÚ. Ústav polymérov SAV sa zúčastnil prípravy niekoľkých projektov 7. RP EÚ, avšak žiaden z nich nebol podporený pre financovanie. Tieto projekty všeobecne predstavujú kvalitatívny rast pre zúčastnených vedeckých pracovníkov a doktorandov a tiež prispievajú k ekonomickej situácii ústavu. Preto aj pre rok 2013 podávanie projektov 7. RP EÚ bude predstavovať jednu z priorít pre budúci rast ústavu.
V rámci medzinárodných spoluprác sa v roku 2012 začal riešiť ERA-NET projekt APGRAPHEL v spolupráci s dvomi vedeckými inštitúciami z Poľska a Turecka a piatimi firmami zo Slovenska, Poľska a Turecka, projekt HUSK/1101/1.2.1 cezhraničnej spolupráce s Maďarskom POLYFRIEND ohľadne ekologicky nezávadných polymérov (financovaný z ERDF) a pokračuje sa v riešení projektu PLASTICE v rámci Central European programu spolufinancovaný z ERDF. Okrem iných tiež vznikla projektová spolupráca s Katarom, kde sa predpokladá vytvorenie intenzívnej spolupríce v budúcom období.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Zoznam domácich projektov riešených v roku 2012

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2012 (v €)		
	A	B	A		B
			spolu	pre organi-záciu	
1. Vedecké projekty, ktoré boli r. 2012 financované VEGA	15	0	119803	-	-
2. Projekty, ktoré boli r. 2012 financované APVV	4	7	72586	66688	62237
3. Projekty OP ŠF	1	3	-	-	39444
4. Projekty centier excelentnosti SAV	0	2	-	-	18310
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	0	1	-	-	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Zoznam domácich projektov podaných v roku 2012

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2012	-	0	0
2. Projekty výziev OP ŠF podané r. 2012	Bratislava	0	0
	Regióny	0	0
3. Projekty výziev FM EHP podané r. 2012	-	0	0

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2012

Tabuľka 2c Zoznam medzinárodných projektov riešených v roku 2012

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2012 (v €)		
	A	B	A		B
			spolu	pre organi-záciu	
1. Projekty 6. a 7. rámcového programu EÚ	1	3	-	-	95362
2. Multilaterálne projekty v rámci vedeckých programov COST, ERANET, INTAS, EUREKA, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation), ERDF, ESA a iné	2	6	28250	48000	72627
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	1	0	-	-	-
4. Bilaterálne projekty	9	0	24300	-	-
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTS, APVV,...)	4	8	1968	5555	57691
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	0	3	-	-	57970

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty v 7. RP EÚ podané v roku 2012

1. Sunlight Mirror Reflection System, FP7 2013 NMP ENV EeB; koordinátor: Strojnícka fakulta STU, Bratislava, zodpovedný riešiteľ za ÚPo SAV: **Chodák Ivan,** (projekt sa posudzuje)

2. Improving Research and Innovation Potential of the Department for Radiation Chemistry and Physics for Applications of Radiation Technologies in Biomedicine and Public Health (RADITECH), FP7-REGPOT-2012-2013-1; koordinátor: Department of Radiation Chemistry and Physics, Vinča Institute of Nuclear Sciences, University of Belgrade Republic of Serbia, zodpovedný riešiteľ za ÚPo SAV: **Špitálský Zdenko**, (projekt neprešiel)

3. Small transport system to low Earth orbit (Malý dopravný systém na nízku obežnú dráhu Zeme), Reg. č. FP7 – 607096, koordinátor: Výťahy ZEVA spol. s r.o., zodpovedný riešiteľ za ÚPo SAV: **Omastová Mária**, počet spoluriešiteľských organizácii: 6, (projekt sa posudzuje)
4. LiTHIO (LiTHIO), Reg. č. FP7 – 608983; koordinátor: LiTHIO, s.r.o., zodpovedný riešiteľ za ÚPo SAV: **Omastová Mária**, počet spoluriešiteľských organizácii: 12, (projekt sa posudzuje)

5. Highly sensitive biophotonic label-free detection in autoimmune inflammatory diseases for therapeutic strategies (SENPHOAID): Large scale intergrating project FP7-ICT-2011-8. Topic: ICT-2011.3.5. Core and Disruptive Photonic Technologies. a) Core Photonic Technologies. 2) Biophotonics for early, fast and reliable medical diagnosis, koordinátor: Merino S. - Fundacion Tekniker, Španielsko, zodpovedný riešiteľ za ÚPo SAV: **Kronek Juraj**, (projekt bol zamietnutý)

6. Innovative darpins-LDL drug delivery vehicles for targeted therapy (NanoTarg), No. 604466-1 FP7-NMP-2013-SMALL-7 Stage 1., koordinátor: Miškovský Pavol - UPJŠ Košice, zodpovedný riešiteľ za ÚPo SAV: **Lacík Igor**, (projekt bol zamietnutý)

7. Device for islets protection against immune reactions (DEAGER). FP7-HEALTH-2013.1.3-2 Innovative approaches to address adverse immune reactions to biomedical devices, implants and transplant tissues. Stage 1; koordinátor: Rivera F. - CEA Grenoble, zodpovedný riešiteľ za ÚPo SAV: **Lacík Igor**, (projekt bol zamietnutý)

8. A long life and reliable glucose monitoring implant for diabetic patients (Puccini), FP7-ICT-2011-8. Objective: ICT-2011.3.2 Smart components and smart systems integration, b) Micro-Nano Bio Systems; koordinátor: S. Kalisvaart, TNO Nehterlands, zodpovedný riešiteľ za ÚPo SAV: **Lacík Igor,** (projekt bol zamietnutý)

Tabuľka 2d Podané projekty 7. RP EÚ v roku 2012

	A	**B**
Počet podaných projektov v 7. RP EÚ	0	8

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.

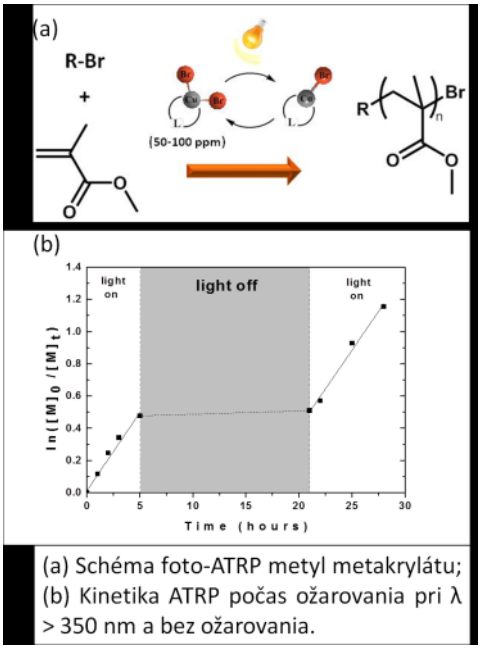
2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

V minulých rokoch sa podarilo zapojiť do niekoľkých projektov OPVaV, z ktorých vznikli významné spolupráce s akademickými a priemyselnými inštitúciami a podarilo sa zlepšiť prístrojovú infraštruktúru. V súčasnosti sa rieši projekt OPVaV-2011/2.2/07-SORO v spolupráci s VIPO a.s. Partizánske, kde bolo v r. 2012 zriadené detašované pracovisko Ústavu polymérov SAV. Ústav sa sa podieľal na príprave dvoch projektových návrhov podaných na MŠVVaŠ SR v rámci OPVaV – Vedecké parky a Centrá výskumu SAV, s názvami Univerzitný vedecký park pre biomedicínu a Národné centrum aplikovaného výskumu nových materiálov a transfer technológií. Ústav polymérov SAV sa naďalej bude zapájať do nových výziev OPVaV, ktoré budú súvisieť so zameraním ústavu a jeho rozvojom.

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

1) Vývoj fotochemicky indukovanej radikálovej polymerizácie s prenosom atómu. (Jaroslav Mosnáček, Markéta Ilčíková)



(a) Schéma foto-ATRP metyl metakrylátu; (b) Kinetika ATRP počas ožarovania pri λ > 350 nm a bez ožarovania.

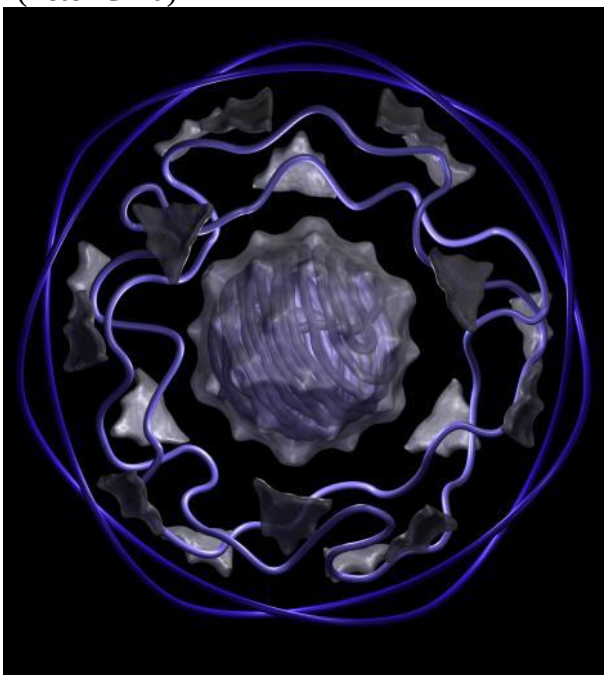
Každá zo súčasných techník radikálovej polymerizácie s vratnou deaktiváciou má svoje výhody a nevýhody. Medzi nevýhody radikálovej polymerizácie s prenosom atómu (ATRP) patrí potreba použitia katalyzátorov na báze komplexov halogenidov kovov v nižšom oxidačnom stupni, ktoré pri manipulácií na vzduchu ľahko oxidujú a ktoré sa väčšinou používajú v pomerne veľkom množstve. Následne výsledné produkty sú kontaminované kovovými katalyzátormi a ich čistenie je finančne i časovo náročné. Niektoré nedávno vyvinuté modifikácie ATRP používajú ako katalyzátory komplexy halogenidov kovov vo vyššom oxidačnom stupni a koncentráciach rádovo len v stovkách ppm. Súčasne je však potrebné použiť v nadbytku redučné činidlá, ktorých výber je limitovaný redox potenciálom. Podarilo sa nám vyvinúť modifikovanú ATRP metódu, pri ktorej sa využili ako katalyzátory stabilné komplexy medi vo vyššom oxidačnom stupni a na ich *in situ* redukciu sa použilo svetlo s vlnovou dĺžkou $\lambda > 350$ nm. Výhodou tejto novej metódy je príprava dobre definovaných polymérov za oveľa výhodnejších ekonomických ale i ekologických podmienok, keďže polymerizáciu možno uskutočniť pri izbovej teplote s nízkou koncentráciou katalyzátora (len 50-100 ppm) za výrazne kratší čas pretože ožarovanie zvyšuje rýchlostnú konštantu polymerizácie k_{app} takmer o dva rády. (Projekt APVV-0109-10)

English title: ***Development of photochemically induced atom transfer radical polymerization.***

Výstupy:

1. MOSNÁČEK, Jaroslav - ILČÍKOVÁ, Markéta. Photochemically mediated atom transfer radical polymerization of methyl methacrylate using ppm amounts of catalyst. In *Macromolecules*, 2012, vol. 45, p. 5859-5865. (5.167 - IF_{2011}).

2) Makromolekuly DNA tvoria v schránkach bakteriofágov preferenčne toroidálne uzly (Peter Cifra)



Pozorovanie, že DNA makromolekuly v schránkach bakteriofágov tvoria preferenčne toroidálne typy uzlov poskytlo citlivú možnosť vyhodnotiť rôzne modely pri usporiadavaní DNA v hlavičkách fágov. Ako blízke realite bolo možné zvažovať len modely poskytujúce prevahu toroidálnych uzlov. Súčasné štúdie ukázali, že experimentálne pozorované obohatenie toroidálnymi uzlami môže byť kvalitatívne reprodukované simuláciami, ktoré zahrňujú nematické usporiadanie zhustených DNA reťazcov v schránke fágov. My sme vyšetrovali, ktoré aspekty nematického usporiadania sú kľúčové pre tvorbu toroidálnych uzlov. Zistili sme, že tuhosť DNA a jej efektívne

stužovanie spôsobené nematickým usporiadaním nielen zvyšuje zastúpenie uzlov, ale je aj rozhodujúcim faktorom pre tvorbu práve toroidálnych DNA uzlov v schránkach fágov. (Projekty VEGA 2/093/12 a VEGA 2/0079/12).

English title: ***DNA macromolecules packed in phage capsids form preferentially torus knots.***

Výstupy:

1. REITH, D. - CIFRA, Peter - STASIAK, A. - VIRNAU, P. Effective stiffening of DNA due to nematic ordering causes DNA molecules packed in phage capsids to preferentially form torus knots. In *Nucleic Acids Research*, 2012, vol. 22, p. 1-9. (8.026 - IF_{2011})

3) Mikroskopická charakterizácia amorfných a kryštalizujúcich organických látok pomocou externých próbovacích techník ESR a PALS. (Helena Švajdlenková, Miroslava Lukešová a Josef Bartoš)

V našom úsilí zameranom na odhalenie informačného potenciálu tzv. *externých* molekulových a atomických techník pri mikroskopickej charakterizácii organických látok, vrátane polymérov, sme vykonali kombinované merania na sérii amorfných sklotvorných látok a jednej reprezentatívnej kryštalickej substancii pomocou elektrónovej spinovej rezonancie (ESR) a pozitrónovej anihilačnej spektroskopie (PALS). V ESR technike je sledovaná rotačná dynamika molekulovej próby tzv. *spinovej sondy 2,2',6,6'-tetramethyl-1-piperidinyloxy* (*TEMPO),* a PALS technika deteguje anihilačné chovanie atomickej próby *orto-pozitrónia* (*o-Ps*), ktoré vypovedá o statických a dynamických voľno-objemových pomeroch vo vyšetrovanej matrici.

V skupine amorfných látok s rôznou chemickou konštitúciou a topológiou ako aj s rôznym typom a rozsahom intermolekulových interakcií sa zistilo, že najvýraznejší dynamický prechod spinovej sondy *TEMPO* z pomalého do rýchleho režimu pri charakteristickej ESR teplote T_{50G} závisí od podstaty sklotvorného systému. Toto je vyjadrené v širokom rozpätí normalizovaných hodnôt: T_{50G}/T_g = 1.15 - 1.5. Na druhej strane porovnanie priemerných dôb života *o-Ps* pri príslušných T_{50G} z PALS meraní odhalilo, že tieto hodnoty sa pohybujú v úzkom intervale $t_3(T_{50G})$ @ 2.17 ± 0.15 ns. Tento empirický nález indikuje, že dynamický prechod danej spinovej sondy *TEMPO* z pomalého do rýchleho režimu je spojený s určitou lokálnou fluktuáciou voľného objemu, ktorá je nezávislá od podstaty sklotvorného systému a že táto voľno-objemová fluktuácia je kontrolným faktorom hlavného dynamického prechodu.

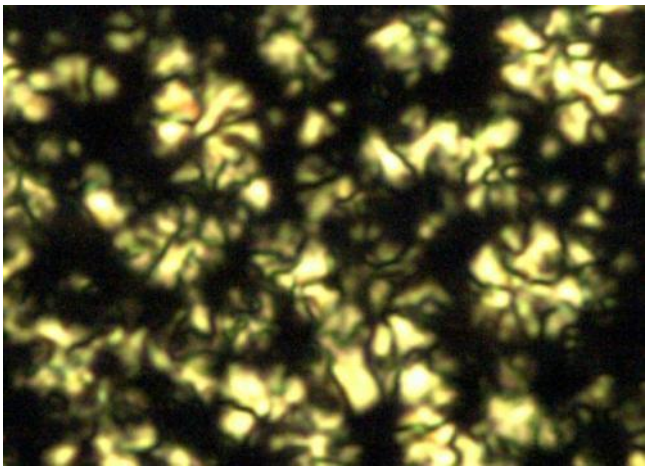
V nadväznom štúdiu kryštalizujúceho systému *n-hexadekán*u (*n-HXD*) sa pomocou uvedeného prístupu odhalilo množstvo originálnych koincidencií medzi charakteristickými ESR a PALS teplotami, ktoré charakterizujú interlamelárnu vrstvu medzi kryštalitmi. Prvá akceleračná teplota spinovej sondy *TEMPO* v pomalom režime súvisí s odchýlkou od lineárneho priebehu v dôsledku termickej expanzie látky. Následný najvýraznejší prechod z pomalého do rýchleho režimu pri $T_{50G} < T_m$ koinciduje s tzv. pre-melting oblasťou tuhého *n-HXD,* ktorá je spojená so zvýšenou konformačnou mobilitou koncových skupín lineárnych reťazcov. Druhá akceleračná teplota spinovej sondy *TEMPO* v rýchlom režime priamo koreluje s kolektívnym kooperatívnym pohybom pri fázovom prechode *n-HXD* z tuhého do kvapalného stavu pri T_m z DSC techniky a prebieha za veľmi podobnej voľno-objemovej fluktuácie ako rovnaký akceleračný proces v horeuvedenej sérii amorfných nízkomolekulových a polymérnych organických systémoch. Celkovo spinová sonda *TEMPO* umožňuje získať významnú informáciu o teplotnom chovaní interlamelárnej vrstvy medzi kryštalitmi v tzv. „rigid" a „soft" tuhej fáze *n-HXD.* (Projekt VEGA 2/0017/12)

English title: ***Microscopic characterization of amorphous and crystallizing organic compounds by means of external probing ESR and PALS techniques.***

Výstupy:

1. ŠVAJDLENKOVÁ, Helena - ŠAUŠA, O. - ISKROVÁ-MIKLOŠOVIČOVÁ, M. - MAJERNÍK, V. – KRIŠTIAK, J. – BARTOŠ, Josef. On the relationship between guest molecular dynamics and free volume in a series of small molecular and polymer glass-formers. In *Chemical Physics Letters,* 2012, vol. 539-540, p. 39-44 (2.337 - IF_{2011})

4) Polyméry so špeciálnymi termickými vlastnosťami (Juraj Kronek, Jozef Lustoň, Angela Kleinová)



Textúra kvapalnokryštalickej fázy polyméru obsahujúceho bifenylovú jednotku meraná optickým mikroskopom s polarizovaným svetlom pri 260 °C.

Je známe, že zavedením aromatických štruktúrnych motívov do reťazca možno zvýšiť termickú stabilitu polymérov. V našom výskume sa viacfunkčné 2-oxazolíny obsahujúce naftalénovú a bifenylovú jednotku použili na polyadičné reakcie typu AB a AA+BB. Polyméry obsahujúce naftalénovú jednotku boli pripravené polyadíciou 2-(6-hydroxy naftalén-2-yl)-2-oxazolínu reprezentujúceho monomér typu AB a polyadíciou 1,4-fenylén-bis(2-oxazolínu) s 2,6-, 2,5-, 1,6- a 1,8-dihydroxynaftalénmi (polyadícia typu AA+BB). Pripravené polyméry vykazovali zvýšenú termickú stabilitu a zvýšenú rigiditu polymérneho reťazca s hodnotami T_g v rozmedzí od 131 do 183°C v závislosti od štruktúry. Termická stabilita určená termogravimetriou sa zvýšila nad 350°C. Polyméry obsahujúce bifenylovú jednotku v hlavnom reťazci sa pripravili podobným spôsobom, keď sa využili obidva typy polyadičnej reakcie (AB, AA+BB). Prítomná bifenylová jednotka predstavuje účinný mezogén a polyméry typu AA+BB vykazovali kvapalno-kryštalické vlastnosti. Prítomnosť mezofázy s nematickou textúrou sa potvrdila optickou mikroskopiou s vyhrievanou platňou v polarizovanom svetle. Hodnoty teploty vzniku mezofázy a teploty izotropizácie boli pomerne blízke a znižovali sa s predlžovaním alkylového reťazca prítomného v polyméri. Dva fázové prechody bolo možné pozorovať aj v prvom ohreve pri meraní DSC metódou. Kvapalno-kryštalické polyméry sa môžu využiť v rôznych oblastiach, ktoré zahrňujú optoelektroniku, senzory a obaly v potravinárstve. (Projekt VEGA 2/0157/09 a spolupráca s doc. J. Nedbalom, MFF KU Praha)

English title: ***Polymers with special thermal properties***

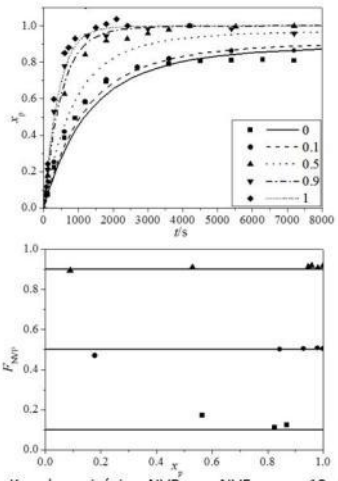
Výstupy:

1. LUSTOŇ, Jozef - KRONEK, Juraj - KLEINOVÁ, Angela - JANIGOVÁ, Ivica - VALENTOVÁ, H. - NEDBAL, J. Synthesis and polymerization reactions of cyclic imino ethers. VI. Polymers with biphenyl structure. In *Journal of Polymer Science*. Part A.Polymer Chemistry, 2012, vol. 50, p. 3936 - 3943. (3.919 - IF_{2011}).

2. KRONEK, Juraj - LUSTOŇ, Jozef - KLEINOVÁ, Angela - JANIGOVÁ, Ivica. Synthesis and polymerization reactions of cyclic imino ethers. V: Naphthalene unit-containing poly(ether amide)s. In *Polymers for Advanced Technologies*, 2012, vol. 23, p. 1057 - 1065. (2.007 - IF_{2011}).

2.3.2. Aplikačný typ

1) Kinetika a mechanizmus homopolymerizácie a kopolymerizácie vodorozpustných monomérov vo vodnej fáze (Marek Stach, Anna Chovancová, Peter Kasák, Patrik Sobolčiak, Igor Lacík)



Kopolymerizácia NVP s NVF pre 10 % monoméru, pri 85°C a 0,02 wt% V-50 vo vodnej fáze pre rôzny obsah NVP v komonomérnej zmesi 0 (▼), 0.1 (■), 0.5 (●), 0.9 (▲) and 1 (♦): (a) experiment (symboly) a model (čiary) pre konverzné profily, (b) konverzia vs. zloženie kopolyméru.

Ústav polymérov SAV dlhodobo spolupracuje s chemickou firmou BASF SE, Ludwigshafen, Nemecko na projekte, ktorý je zameraný na získanie rýchlostných konštánt radikálovej polymerizácie. Tieto poznatky umožňujú modelovanie priebehu polymerizácie a charakteru polyméru z pohľadu distribúcie mólových hmotností a následne navrhnutie experimentálnych podmienok polymerizácií za účelom dosiahnutia požadovaných vlastností pripravených polymérov. Okrem získania nových poznatkov o mechanizme polymerizácie je možnosť nastavenia experimentálnych podmienok cenná vzhľadom na ekonomizáciu výroby polymérov a tiež súvisí s ochranou životného prostredia.

Naša práca je špecificky zameraná na homopolymerizáciu a kopolymerizáciu vodo-rozpustných monomérov. Bola študovaná radikálová kopolymerizácia *N*-vinylpyrolidónu (NVP) s *N*-vinylformamidom (NVF) vo vodnej fáze pri teplote 60 and 85°C v závislosti od zloženia komonomérnej zmesi v celom rozsahu a počiatočnej koncentrácii monomérov od 10 do 50 wt.%. Zloženie kopolyméru bolo konštantné a rovné zloženiu komonomérovej zmesi, čo poukazuje na zhodné kopolymerizačné parametre pre NVP aj NVF $r_{NVP} = r_{NVF} = 1$. Počiatočná rýchlosť polymerizácie sa zvyšuje s obsahom NVP v komonomérnej zmesi a s poklesom celkovej koncentrácie monoméru v súhlase s predchádzajúcimi poznatkami o rýchlosti propagácie týchto homopolymérov. Podobne mólová hmotnosť sa zvyšuje s obsahom NVP. Modelovanie kopolymerizácie NVP s NVF za pomoci terminálneho kopolymerizačného modelu poskytlo súhlas s experimentálnymi konverznými krivkami a tiež distribúciami mólovej hmotnosti v závislosti od počiatočných experimentálnych podmienok. Tieto výsledky budú ďalej využité pre modelovanie kopolymerizačných procesov vo vodnej fáze iných komonomérov. (Kontraktový výskum BASF SE a projekty VEGA 2/0160/12 a 2/0152/10)

English title: ***Kinetics and mechanism of homo- and copolymerization of water-soluble monomers in aqueous phase.***

Výstupy:

1. SANTANAKRISHNAN, S. – STACH, Marek – LACÍK, Igor – HUTCHINSON, R. A. Aqueous-phase copolymerization of *N*-vinylpyrrolidone and *N*-vinylformamide. In *Macromolecular Chemistry nad Physics,* 2012, vol. 213, p. 1330–1338. (2.361 - IF_{2011})

2) Využitie nízkoteplotnej plazmy pre antibakteriálnu modifikáciu vybraných polymérov a povrchovú modifikáciu polymérnych membrán. (Anton Popelka, Marian Valentín, Jozef Prachár, Igor Novák)

V spolupráci s Univerzitným inštitútom Univerzity Tomáša Baťu v Zlíne sa zaoberáme skúmaním povrchových a antibakteriálnych vlastností polymérov. Boli testované vybrané antibakteriálne látky, ako je chlórhexidín, bronopol a triclosan, ktoré sa naviazali na povrch izotaktického polypropylénu očkovaním kyselinou akrylovou vo viacstupňovom procese modifikácie s použitím plazmy. Antibakteriálna úprava povrchu izotaktického polypropylénu atmosferickou plazmou bariérovým výbojom vo vzduchu sa prejavila vysokou účinnosťou proti bakteriálnemu kmeňu *S. aureus* ak bol použitý chlórhexidín a triclosan, pričom antibakteriálna úprava pre baktérie *E. Coli* bola menej efektívna.

V spolupráci s Ústavom makromolekulových látok Akadémie vied Ruskej federácie v St. Petersburgu boli upravované membrány bariérovým výbojom pri atmosferickom tlaku. Sledoval sa vplyv rôznych procesných plynov na povrchovú energiu a priepustnosť membrán. Modifikácia polyvinylidénfluoridových membrán ako aj membrán z vysokohustotného polyetylénu rádiofrekvenčnou a bariérovou plazmou v prostredí oxidu uhličitého mala za následok výrazný nárast polarity polyméru, avšak priepustnosť membrán sa výrazne znížila a tiež sa zhoršili mechanické vlastnosti. (Projekt VEGA 2/0185/10)

English title: ***Antibacterial modification of selected polymers and surface modification of polymeric membranes using low-temperature plasma.***

Výstupy:

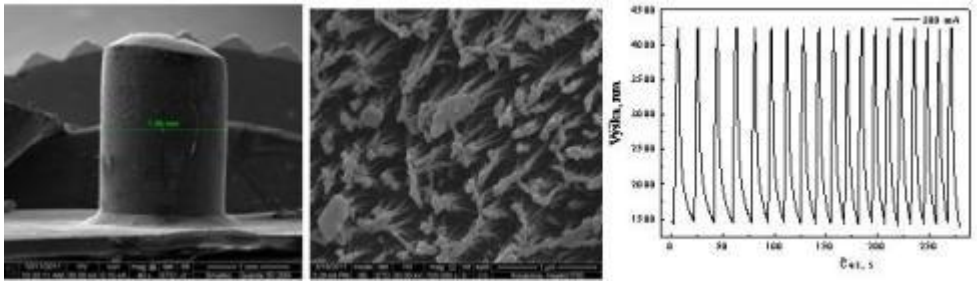
1. POPELKA, Anton - NOVÁK, Igor - LEHOCKÝ, M. - JUNKAR, I. - MOZETIČ, M. - KLEINOVÁ, Angela - JANIGOVÁ, Ivica - ŠLOUF, M. - BÍLEK, F. - CHODÁK, Ivan. A new route for chitosan immobilization onto polyethylene surface. In *Carbohydrate Polymers* 2012, vol. 90, p. 1501-1508. (3.628 - IF_{2011})

2. POPELKA, Anton - NOVÁK, Igor - LEHOCKÝ, M. - CHODÁK, Ivan - SEDLIAČIK, J. - GAJTANSKA, M. - SEDLIAČIKOVÁ, M. - VESEL, A. - JUNKAR, I. - KLEINOVÁ, Angela - ŠPÍRKOVÁ, M. - BÍLEK, F. Anti-bacterial treatment of polyethylene by cold plasma for medical purposes. In *Molecules*, 2012, vol. 17, p. 762-785. (2.386 - IF_{2011}).

2.3.3. Medzinárodné vedecké projekty

1) 7 RP projekt Nano-optický mechanický system - NOMS (Igor Krupa, Mária Omastová, Klaudia Czaniková, Jaroslav Mosnáček, Markéta Ilčíková, Peter Kasák, Matej Mičušík, Dušan Račko)

Kľúčovým výsledkom projektu 7 RP NOMS bola príprava foto-aktuujúceho nanokompozitu na báze etylén-vinyl acetátového kopolyméru, EVA, a mnohostenných uhlíkových nanotrubičiek, MWCNT. Na dosiahnutie dobrej dispergácie trubičiek v polymérnej matrici bola použitá nekovalentná modifikácia použitím kompatibilizátora cholesteryl 1-pyrénkaroxylát pri pomere MWCNT/kompatibilizátor = 1/5. Na testovanie fotoaktuácie sa pripravili dva typy vzoriek. Prvý mal tvar Braillovho elementu a bol pripravený vytlačením z formy. Najlepší výsledok aktuácie bol nameraný v prípade kompozitu EVA/0.3 hm.% MWCNT, kde sa dosiahla 69 μm expanzia Braillovho elementu po ožiarení červenou LED diódou pomocou rastrovacej elektrónovej mikroskopie v kombinácii s kamerou. Pripravené EVA/MWCNT nanokompozity boli testované počas ožarovania rôznymi metodikami. Bola dokázaná opakovateľná fotoaktuácia pomocou meraní na dynamicko-mechanickom analyzátore, ktorý bol vybavený LED diódou. Merania ukázali bimodálnu a plne vratnú odozvu v závislosti od spôsobu prípravy vzoriek. Tento výsledok je možné považovať za unikátny, keďže doposiaľ neboli publikované fotoaktuujúce nanokompozity na báze uhlíkových nanotrubičiek a EVA kopolyméru.



a) b) c)

Foto-aktuujúci nanokompozit v tvare Braillovho elementu (BE) (a), orientácia uhlíkových nanotrubičiek v polymérnej matrici v BE (b), a zmena výšky BE počas aktuácie určená pomocou AFM metódy (c).

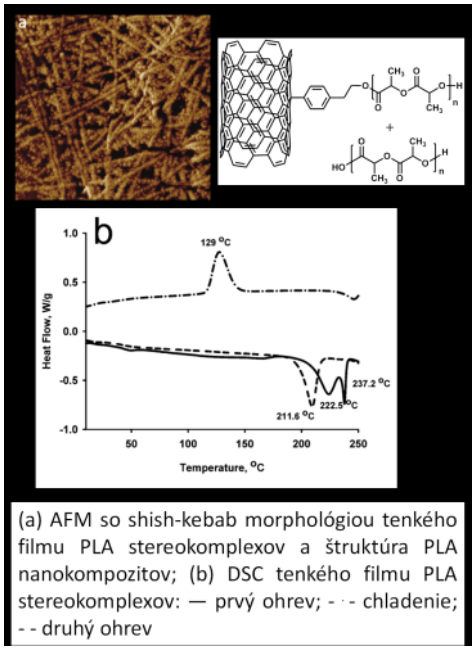
English title: ***Nano - optical mechanical system – NOMS***

Výstupy:

1. CZANIKOVÁ, Klaudia – ILČÍKOVÁ, Markéta - KRUPA, Igor – KASÁK, Peter - CHORVÁT, Jr. D., - VALENTIN, Marián – ŠLOUF, M. - MOSNÁČEK Jaroslav - MIČUŠÍK, Matej - OMASTOVÁ, Mária. Photo-actuating materials based on elastomers and modified carbon nanotubes, In *Journal of Nanophotonics*, 2012 vol. 6, 063522 (DOI: 10.1117/1.JNP.6.063522 (1.570- IF_{2011}).

2. CZANIKOVÁ, Klaudia - ŠPITALSKÝ, Zdenko - KRUPA, Igor - OMASTOVÁ, Mária. Electrical and mechanical properties of ethylene vinyl acetate based composites. In *Materials Science Forum*, 2012, vol. 714, p. 193 - 199. ISSN 0255-5476.

2) Termicky stabilné polylaktidové stereokomplexy. (Jaroslav Mosnáček, Markéta Ilčíková,Martin Danko)



(a) AFM so shish-kebab morphológiou tenkého filmu PLA stereokomplexov a štruktúra PLA nanokompozitov; (b) DSC tenkého filmu PLA stereokomplexov: — prvý ohrev; - · - chladenie; - - druhý ohrev

Polylaktid (PLA) má mnoho vynikajúcich a v súčasnosti žiadaných vlastností, keďže je biodegradovateľný, biokompatibilný, neprchavý, bez zápachu a je klasifikovaný FDA ako GRAS (generally recognized as safe) materiál. Avšak v porovnaní s inými komerčnými termoplastami vykazuje pomalú kryštalizáciu a pomerne nízku teplotu topenia (176–180 °C). Zlepšenie termickej stability a mechanických vlastností PLA je preto zásadné pre jeho aplikáciu v rôznych priemyselných odvetviach. Na získanie PLA so zlepšenými vlastnosťami sa pripravili nanokompozity s modifikovanými mnohostennými uhlíkovými nanotrubičkami (MWCNT). MWCNT sa očkovali polylaktidmi *in situ* počas polymerizácie s otvorením kruhu L,L-dilaktidu a D,D-dilaktidu. Polymerizácia sa uskutočnila v bloku pod teplotou topenia PLA, čím sa dosiahla kryštalizácia polymérov počas polymerizácie. Výsledný PLA nanokompozit vykryštalizovaný priamo v polymerizačnej zmesi vykazoval nezvyčajne vysokú teplotu topenia (≥190 °C, t. j. asi o 10-15 °C vyššia ako je bežné pre PLA) a entalpie topenia blízke entalpiám pre PLA so 100 % kryštalinitou. Po prezrážaní sa enantiomérne L-PLA a D-PLA nanokompozity použili na prípravu PLA stereokomplexov. Vďaka prítomnosti len 0,5 – 1 hmot. % PLA modifikovaných nanotrubičiek bolo po prvýkrát možné pripraviť čisté stereokomplexy jednoduchým odliatím roztoku zmesi PLA enantiomérov. Stereokomplexy nanokompozitov pripravené odlievaním z roztoku alebo zrážaním vykazovali doteraz nepozorovanú vratnú tvorbu čistých stereokomplexov po roztopení kryštálov stereokomplexov. Tento jav je významný z pohľadu aplikácií PLA materiálov, pretože umožňuje spracovanie a tvarovanie nerozpustných PLA stereokomplexov bez toho, aby sa stratili ich výhody ako sú vyššia termická a hydrolytická stabilita a zlepšené mechanické vlastnosti v porovnaní s čistými homochirálnymi PLA. Štúdium morfológie tenkých filmov pripravených z nanokompozitov PLA stereokomplexov pomocou AFM ukázalo tvorbu shish-kebabových štruktúr. (Projekt VEGA 2/0074/10, MAD SAV-PAV)

English title: ***Thermally stable polylactide stereocomplexes.***

Výstupy:

1. RZEZINSKI, M. - BOGUSŁAWSKA, M. - ILČÍKOVÁ, Markéta - MOSNÁČEK, Jaroslav - BIELA, T. Unusual thermal properties of polylactides and polylactide stereocomplexes containing polylactide-functionalized multi-walled carbon nanotubes. In *Macromolecules*, Vol. 45, 2012, p. 8714−8721. (5.167 - IF_{2011})

3) Polymérne mikrokapsule pre liečbu cukrovky(Gabriela Kolláriková, Andrea Mihálová, Peter Kasák, Zuzana Kroneková, Dušana Mocinecová, Vladislav Semak, Igor Lacík)

Polyelektrolytové mikrokapsule cielené pre imunitnú ochranu transplantovaných buniek boli modifikované z pohľadu procesu prípravy a polymérnych zložiek za účelom potlačenia stimulácie ľudského imunitného systému. Ex vivo testy v kompletnej ľudskej krvi boli robené na spolupracujúcom pracovisku NTNU Trondheim a ukázali na možnosť regulovať mieru stimulácie ľudského imunitného systému, ktorá priamo súvisí s produkciou cytokínov. V tejto téme boli ukončené a publikované výsledky týkajúce sa potenciálne toxického charakteru mikrokapsúl, ktoré sa pripravujú v prítomnosti bárnatých iónov, a xenotransplantácie ľudských ostrovčekov chránených v alginátových pregélovaných sférach. Tiež sme sa podieľali na príprave alginátových mikrosfér emulzným spôsobom, ktoré majú niekoľko výhod oproti mikrokapsulám pripravovaným klasickým spôsobom. Naďalej sa pokračuje v téme charakterizácie molekulárneho zloženia povrchu hydrogélových mikrokapsúl a modifikácie hydrogélov peptidmi, syntetizovanými Fmoc-peptidovou syntézou, s inhibičným účinkom na cytokíny a chemokíny. (Projekty Chicago Diabetes Project, European Association for Studies of Diabetes)

English title: ***Polymeric microcapsules for diabetes treatment.***

Výstupy:

1. QI, M. – MORCH, Y. – LACÍK, Igor – FORMO, K. – MARCHESE, E. – WANG, Y. – DANIELSON, K.K. – KINZER, K. – WANG, S. – BARBARO, B. – KOLLÁRIKOVÁ, Gabriela – CHORVÁT JR., D. – HUNKELER, D. – SKJAK-BRAEK, G. – OBERHOLZER, J. – STRAND, B.L. Survival of human islets in microbeads containing high guluronic acid alginate crosslinked with Ca^{2+} and Ba^{2+}. In *Xenotransplantation.* Vol. 19, (2012), p. 355–364. (2.326 = IF_{2011})

2. MORCH, Y.A. – QI, M. – GUNDERSEN, P.O.M. – FORMO, K. – LACÍK, Igor – SKJAK-BRAEK, G. – OBERHOLZER, J. – STRAND, B.L. Binding and leakage of barium in alginate microbeads. In *Journal of Biomedical Materials Research Part A.* Vol. 100A, (2012), p. 2939–2947. (2.625 = IF_{2011})

2.4. Publikačná činnosť (úplný zoznam je uvedený v Prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	A Počet v r. 2012/ doplnky z 2011	B Počet v r. 2012/ doplnky z 2011	C Počet v r. 2012/ doplnky z 2011
1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB, CAB)	**0 / 0**	**0 / 0**	**0 / 0**
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA, CAA)	**0 / 0**	**0 / 0**	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB)	**0 / 0**	**0 / 0**	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA)	**0 / 0**	**0 / 0**	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD, ACD)	**0 / 0**	**0 / 0**	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC, ACC)	**2 / 0**	**0 / 0**	**0 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**	**0 / 0**	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**	**0 / 0**	**0 / 0**
9. Vedecké a odborné práce v časopisoch evidovaných v Current Contents (ADC, ADCA, ADCB, ADD, ADDA, ADDB, CDC, CDCA, CDCB, CDD, CDDA, CDDB, BDC, BDCA, BDCB, BDD, BDDA, BDDB)	**61 / 0**	**0 / 0**	**1 / 0**
10. Vedecké a odborné práce v nekarentovaných časopisoch (ADE, ADEA, ADEB, ADF, ADFA, ADFB,CDE,CDEA,CDEB, CDF, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	**15 / 1**	**0 / 0**	**0 / 0**
11. Vedecké a odborné práce v zborníkoch (konferenčných aj nekonferenčných, vydaných tlačou alebo na CD)			
a/ recenzovaných, editované (AEC, AED, AFA, AFB, AFBA, AFBB, BEC, BED, CEC, CED)	**13 / 0**	**0 / 0**	**0 / 0**
b/ nerecenzovaných (AEE, AEF, AFC, AFD, AFDA, AFDB, BEE, BEF)	**4 / 0**	**0 / 0**	**0 / 0**
12. Vydané periodiká evidované v CC	**0**	**0**	**0**
13. Ostatné vydané periodiká	**0**	**0**	**0**
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	**2 / 0**	**0 / 0**	**0 / 0**
15. Vedecké práce uverejnené na internete (GHG)	**0 / 0**	**0 / 0**	**0 / 0**
16. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**	**0 / 0**	**0 / 0**

__A__ - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora; __B__ - pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV; __C__ - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, present address...“)

Tabuľka 2f Ohlasy

OHLASY	A Počet v r. 2011/ doplnky z r. 2010	B Počet v r. 2011/ doplnky z r. 2010
Citácie vo WOS (1.1, 2.1)	1166 / 0	0 / 0
Citácie v SCOPUS (1.2, 2.2)	138 / 0	0 / 0
Citácie v iných citačných indexoch a databázach (9, 10)	0 / 0	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4)	1 / 0	0 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0	0 / 0

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora, alebo pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV
B - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2g Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	97
Prednášky a vývesky na domácich vedeckých podujatiach	61

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

1. BENKOVÁ, Zuzana - CIFRA, Peter. Simulation of cyclic and linear DNA chains moderately and strongly confined in nanochannels. Workshop „Topology Aspects of DNA Function and Protein Folding“, September 3-7, 2012, Cambridge, UK. Vyžiadaná prednášk

2. CHODÁK, Ivan. Polymer blends and composites for automotive applications. Konferencia Mobility and Research, Veszprem. Maďarsko 9.-11.7.2012. Pozvaná prednáška.

3. CHODÁK, Ivan - KRAJČI, Juraj. Electrical conductivity of composites as a tool for investigation of reinforcing filler physical network. In Polymeric Materials 2012: Halle (Saale), Germany, 12. - 14. September 2012 : abstracts. - Halle: Martin Luther University Halle - Wittenberg, 2012, p. 69. ISBN 978-3-86829-517-7. Pozvaná prednáška.

4. CHODÁK, Ivan - JOCHEC MOŠKOVÁ, Daniela. Clay nanocomposites with polymeric matrices - successes and disappointments. In PHYSICS OF MATERIALS 2012- Proceedings of the scientific conference, October 17-19, 2012, Košice. P. 16-20. - Košice : Technical University of Košice, 2012. ISBN 978-80-553-1175-3. Pozvaná prednáška.

5. FLORIÁN, Štepán - NOVÁK, Igor - SYSEL, P. - POPELKA, Anton - ŠPÍRKOVÁ, M. - KLEINOVÁ, Angela. Povrchové vlastnosti polyimid-polysiloxánových blokových kopolymérov. In Sborník příspěvku konference PLASTKO 2012: Zlín - ČR, 11.-12. 4. 2012 [elektronický zdroj]. 1. vyd. - Zlín, ČR: Univerzita Tomáše Bati, 2012, p. [135 - 143]. ISBN 978-80-7454-137-7. Pozvaná prednáška.

6. FLORIÁN, Štepán - NOVÁK, Igor - POPELKA, Anton - CHODÁK, Ivan - ŠPÍRKOVÁ, M. - CHEHIMI, M. M. - KLEINOVÁ, Angela. Surface properties of poly(ethylene terephthalate) modified by barrier plasma. In CCT 2012: 43rd International conference on coatings technology: Pardubice, Czech Republik, May 14-17, 2012: conference proceedings. - Pardubice: Univerzita Pardubice, 2012, p. 107-116. ISBN 978-80-7395-490-1. Pozvaná prednáška.

7. NOVÁK, Igor - POPELKA, Anton - LEHOCKÝ, M. - CHODÁK, Ivan - BÍLEK, F. Antibakteriálna úprava polyetylénu nízkoteplotnou plazmou. In Sborník příspěvku konference PLASTKO 2012: Zlín - ČR, 11.-12. 4.2012 [elektronický zdroj]. 1. vyd. - Zlín, ČR: Univerzita Tomáše Bati, 2012, p. 161-168. ISBN 978-80-7454-137-7. Pozvaná prednáška

8. NOVÁK, Igor - POPELKA, Anton - LEHOCKÝ, M. - CHODÁK, Ivan - BÍLEK, F. - KLEINOVÁ, Angela. Multistep method of polyethylene modification by atmospheric discharge plasma. In CCT 2012: 43rd International conference on coatings technology: Pardubice, Czech Republik, May 14-16,2012: conference proceedings. - Pardubice: Univerzita Pardubice, 2012, p. 297-304. ISBN 978-80-7395-490-1. Pozvaná prednáška

9. NOVÁK, Igor - POPELKA, Anton - LEHOCKÝ, M - SEDLIAČIK, J - MATYAŠOVSKÝ, J - CHODÁK, Ivan - KLEINOVÁ, Angela. Anti-bacterially pre-treated polyethylene by discharge plasma. In Annals of Warsaw University of Life Sciences - SGGW: Forestry and Wood Technology, 2012, no. 79, p. 84-92. ISSN 1898-5912. Pozvaná prednáška

10. NOVÁK, Igor - POPELKA, Anton - KRUPA, Igor - CHODÁK, Ivan - SEDLIAČIK, J. - VALENTIN, Marian - KLEINOVÁ, Angela - JURKOVIČ, P. Modification of polyethyleneby radio-frequency plasma and silanes. In Annals of Warsaw University of Life Sciences - SGGW: Forestry and Wood Technology, 2012, no. 79, p. 75-83. ISSN 1898-5912. Pozvaná prednáška

11. NOVÁK, Igor - POPELKA, Anton - SEDLIAČIK, J. - VALENTIN, Marian - CHODÁK, Ivan - KLEINOVÁ, Angela - VANKO, V - PREŤO, J. Surface properties of polyethylene pre-treated by low-temperature plasma. In Annals of Warsaw University of Life Sciences - SGGW: Forestry and Wood Technology, 2012, no. 79, p. 67-74. ISSN 1898-5912. Pozvaná prednáška.

12. OMASTOVÁ, Mária - CZANIKOVÁ, Klaudia - MIČUŠÍK, Matej - KASÁK, Peter - CHORVÁT, D Jr. - KRUPA, Igor. Actuating elastomeric composites containing multiwall carbon nanotubes. In 7th International Conference on Nanostructured Polymers and Nanocomposites: Prague - Czech Republic, April 24-27, 2012: book of abstracts. - Prague - Czech Republik: Institute of Macromolecular Chemistry, 2012, p. [2]. ISBN 978-80-85009-71-2. Pozvaná prednáška

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

1. FLORIÁN, Štefan – NOVÁK, Igor - POPELKA, Anton – ŽIGO, Ondrej – SEDLIAČIK, J. Elektricky vodivé adhezíva. In Zborník príspevkov konferencie „Inovácie vo zváraní“, Spišské Podhradie, 6.–9. 11. 2012, p. 20 – 22. ISBN 978-80-971233-1-4. Pozvaná prednáška

2. LACÍK, Igor. Skúsenosti Slovenskej akadémie vied s prípravou a riešením projektov 7. Rámcového programu EU,FP7 Connections 2012 Matchmaking Conference, Bratislava, 16.05.2012, Pozvaná prednáška

3. NOVÁK, Igor - FLORIÁN, Štefan - POPELKA, Anton – ŽIGO, Ondrej – SEDLIAČIK, J. Inomérne nanokompozitné adhezíva. In Zborník príspevkov konferencie „Inovácie vo zváraní“, Spišské Podhradie, 6.–9. 11. 2012, p. 81 - 84. ISBN 978-80-971233-1-4. Pozvaná prednáška.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

1. BLEHA, Tomáš. Ako funguje Brusel – hodnotenie výskumných projektov, 27. 3. 2012, seminár ÚPo SAV, Bratislava

2. BLEHA, Tomáš. Hodnotenie výskumných projektov v 7RP, 5.-6. 9. 2012, seminár “Podávame projekt v 7RP” organizovaný SOVVA, Bratislava

3. DANKO, Martin. Fluorescencia donor–akceptorných chromofórov v polymérnych matriciach, 30.05.2012, workshop Pokročilé materiály pro optoelektroniku, Brno, Česká republika

4. DANKO, Martin. Photochemistry and Photochemical Studies in Polymer Systems; An Overview of Scientific Topics on Polymer Institute SAS, 22.11.2012, seminár oddelenia Physics at Interfases (H.J. Butt) Max-Planck Institute for Polymer Research, Mainz, Germany

5. CHODÁK, Ivan. Vybrané problem výskumu plastov. 10.7.2012, poldenný seminár pre študentov Pannonia University, Vezsprem, Maďarsko

6. CHODÁK, Ivan. Environmentálne aspekty aplikácie plastov. 10.7.2012, poldenný seminár pre študentov Pannonia University, Vezsprem, Maďarsko

7. LACÍK, Igor - CHOVANCOVÁ, Anna - STACH, Marek - HORVÁTH, B. – KASÁK, Peter. Some aspects of homo and copolymerization of acrylic acid and acrylamide. November 23, 2012, BASF SE Ludwigshafen, Germany. Pozvaná prednáška

8. LACÍK, Igor. Microencapsulation and related issues: Bratislava Update, October 6-12, 2012, 8th Chicago Diabetes Project Meeting, USA

9. LACÍK, Igor. Polymeric microcapsules in diabetes treatment, October 25, 2012, Center of Molecular and Macromolecular Studies, Lodz, Poland

10. STACH, Marek – LACÍK, Igor. Update on kinetics and SEC analysis of cationic polymers, April 27, 2012, BASF SE Ludwigshafen, Germany. Pozvaná prednáška

11. STACH, Marek - KASÁK, Peter - CHOVANCOVÁ, Anna - HIPKÁ, Eva - HORVÁTH, B. – LACÍK, Igor. FA1Quat propagation kinetics, November 23, 2012, BASF SE Ludwigshafen, Germany. Pozvaná prednáška

12. STACH, Marek - CHOVANCOVÁ, Anna - KASÁK, Peter - UČŇOVÁ, Lucia - HIPKÁ, Eva - LACÍK, Igor. Propagation kinetics of acrylic acid and acrylamide homopolymerization in aqueous solution, April 27, 2012, BASF SE Ludwigshafen, Germany. Pozvaná prednáška

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2012

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

Na Slovensku - počet patentov: 2

Číslo PV: 1.PCT/SK 2012/000004
Mená autorov: Chodák Ivan, ALEXY, P. - BAKOŠ, D. - BUGAJ, P. - PAVLAČKOVÁ, M. - TOMANOVÁ, K. - BENOVIČ, F. - PLAVEC, R. - MIHALÍK, M. – BOTOŠOVÁ, M.
Názov vynálezu: Biologically degradable polymeric composition with high deformability
Majiteľ / spolumajiteľ: Ústav polymérov SAV

Číslo PV: 1698/2012
Mená autorov:
Názov vynálezu: Ochranná známka - Gravipol - 1 - Adhezíva (lepiace materiály) na priemyselné účely, lepidlá a spojivá pre priemysel; 16 - Adhezíva, lepidlá a spojivá na kancelárske účely alebo pre domácnosť; 39 - Preprava tovaru; balenie a skladovanie tovaru
Majiteľ / spolumajiteľ: Ústav polymérov SAV

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2012 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

2.8. Iné informácie k vedeckej činnosti.

Hodnotenie organizačných útvarov ústavu Vedeckou radou sa druhý rok po sebe uskutočnilo formou dvojdňového kolokvia, ktoré sa konalo v druhej polovici decembra 2012. V priebehu tohto kolokvia malo každé zo štyroch oddelení priestor na prezentáciu vedeckej, vedecko-organizačnej, popularizačnej a inej činnosti uskutočnenej v priebehu roku 2012. Kolokvium bolo organizované a vedené Vedeckou radou ústavu a pre každé oddelenie bol určený vnútroústavný hodnotiteľ. Podkladom pre hodnotenie oddelení bol písomný materiál štrukturovaný podľa zásad definovaných vedeckou radou. Cieľom hodnotenia bolo získať komplexný prehľad jednak o činnosti jednotlivých odelení a zároveň prehľad o príspevku vedeckých a vedeckotechnických pracovníkov do výstupov oddelení v kontexte posledných troch rokov. Pri vyhodnotení kolokvia sa dospelo k názoru, že kolokvium splňa účel monitorovania a získania celkového prehľadu o výstupoch organizačných útvarov i jednotlivcov a bude sa takouto formou pokračovať v hodnotení i v ďalších rokoch.
Zameranie ústavu pokračuje v tradičných témach popri rozvíjaní nových tém hlavne v oblasti bioaplikácií polymérov a nanotechnológiách. Tematický profil pracoviska je v štyroch základných oblastiach reflektujúcich tematiku štyroch oddelení: syntéza a modifikácia polymérov, biomateriály a bioaplikácie, polymérne kompozity a modelovanie. Kvantitatívne a kvalitatívne vedecké, projektové a popularizačné výstupy − počty publikácií, citácií, projektov a projektových spoluprác, popularizačných článkov, popularizačných akcií a vystúpenií v médiách, ako aj iné ukazovateľe sú celkovo uspokojivé. Doleuvedená Tabuľka ukazuje na vývoj počtu publikácií a citácií v posledných 5 rokoch. V budúcnosti by sa mali formovať ďalšie vedúce osobnosti tímov z mladšej generácie vedeckých pracovníkov. Nárast publikačnej činnosti ústavu v roku 2012 možno prisúdiť čiastočne i významnejšiemu príspevku počtu publikácií niektorých mladších kolegov, čo je tiež prísľubom k formovaniu takýchto lídrov.

Rok	CC publikácie	Kapitoly v knihách	Citácie WOS, Scopus
2008	53	3	759
2009	43	7	695
2010	51	3	876
2011	44	4	1015
2012	62	2	1305

Vedecká rada v dvojtýždňových intervaloch organizuje semináre vedeckých pracovníkov ústavu. Pravidlom sú vedecké prednášky zahraničných hostí organizované ad-hoc v priebehu ich návštev ústavu prevažne v rámci projektovej spolupráce. Inicioval sa pokus o naštartovanie cyklusu pravidelných pozvaných prednášok zahraničných vedeckých osobností; avšak v roku 2012 sa podarilo zorganizovať len jednu takuto prednášku; v aktívnejšej organizácii tohto cyklu sa bude pokračovať v r. 2013.
Tradične Vedecká rada organizuje súťaž mladých vedeckých pracovníkov, ktorá je finančne podporená vedením ústavu. Mladí vedeckí pracovníci sa do súťaže zapájajú publikáciami, na ktorých majú zásadný podiel, a publikované výsledky prezentujú pred akademickou obcou ústavu. Táto súťaž mala v roku 2012 vysokú úroveň a poukázala na svoj význam a zároveň profesionálny rast mladej generácie na Ústave polymérov SAV.
Vedenie ústavu v rámci podpory mladých vedeckých pracovníkov dáva možnosť uchádzať sa o dva ročné Štartovacie granty v sume 1600 Euro/grant. V roku 2012 bol udelený jeden grant.

3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2012

Forma	Počet k 31.12.2012				Počet ukončených doktorantúr v r. 2012					
	Doktorandi				Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí		ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Interná zo zdrojov SAV	5	12	1	2	2	2	0	0	0	0
Interná z iných zdrojov	0	0	0	0	0	0	0	0	0	0
Externá	1	0	0	0	0	0	0	0	0	0
Spolu	6	12	1	2	2	2	0	0	0	0

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení

Z formy	Interná z prostriedkov SAV	Interná z prostriedkov SAV	Interná z iných zdrojov	Interná z iných zdrojov	Externá	Externá
Do formy	**Interná z iných zdrojov**	**Externá**	**Interná z prostriedkov SAV**	**Externá**	**Interná z prostriedkov SAV**	**Interná z iných zdrojov**
Počet	0	0	0	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2012 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť
Katarína Mosnáčková	interné štúdium hradené z prostriedkov SAV	10/2006	8/2012	4.1.19 makromolekulová chémia	Ing. Mária Omastová DrSc., Ústav polymérov SAV	Fakulta chemickej a potravinárskej technológie STU
Eva Papajová	interné štúdium hradené z prostriedkov SAV	10/2007	7/2012	4.1.19 makromolekulová chémia	Ing. Igor Lacík DrSc., Ústav polymérov SAV	Fakulta chemickej a potravinárskej technológie STU

Anton Popelka	interné štúdium hradené z prostriedkov SAV	10/2008	9/2012	5.2.21 technológia makromolekulových látok	Ing. Igor Novák PhD., Ústav polymérov SAV	Fakulta chemickej a potravinárskej technológie STU
Patrik Sobolčiak	interné štúdium hradené z prostriedkov SAV	10/2008	8/2012	4.1.19 makromolekulová chémia	Mgr. Peter Kasák PhD., Ústav polymérov SAV	Fakulta chemickej a potravinárskej technológie STU

Zoznam interných a externých doktorandov je uvedený v Prílohe A.

3.4. Zoznam akreditovaných študijných odborov s uvedením VŠ

Tabuľka 3d Zoznam akreditovaných študijných odborov s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	**Číslo ŠO**	**Doktorandské štúdium uskutočňované na:** (univerzita/vysoká škola a fakulta)
fyzikálna chémia	4.1.18	Fakulta chemickej a potravinárskej technológie STU
makromolekulová chémia	4.1.19	Fakulta chemickej a potravinárskej technológie STU
technológia makromolekulových látok	5.2.21	Fakulta chemickej a potravinárskej technológie STU

Tabuľka 3e Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií študijných programov doktorandského štúdia	**Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt**	**Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň**
doc. Ing. Dušan Berek, DrSc. (analytická chémia)	prof. Ing. Tomáš Bleha, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	Mgr. Zuzana Benková, PhD. (IIa)
prof. Ing. Tomáš Bleha, DrSc. (makromolekulová chémia)	prof., RNDr. Ignác Capek, DrSc. (Fakulta priemyselných technológií TnUAD v Púchove)	Ing. Matej Mičušík, PhD. (IIa)
prof. RNDr. Ignác Capek, DrSc. (technológia makromolekulových látok)	Ing. Jozef Rychlý, DrSc. (Univerzita T. Bati, Zlín, Česká Republika)	Štefan Chmela, DrSc. (DrSc., Slovenská Akadémia Vied)
RNDr. Peter Cifra, DrSc. (makromolekulová chémia)		Mgr. Katarína Mosnáčková, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Mgr. Martin Danko, PhD. (technológia		Ing. Eva Papajová (PhD., Fakulta chemickej a

makromolekulových látok)		potravinárskej technológie STU)
Štefan Chmela, PhD. (technológia makromolekulových látok)		Ing. Anton Popelka (PhD., Fakulta chemickej a potravinárskej technológie STU)
prof. Ing. Ivan Chodák, DrSc. (technológia makromolekulových látok)		Mgr. Patrik Sobolčiak (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Ivica Janigová, PhD. (technológia makromolekulových látok)		
Ing. Igor Lacík, DrSc. (makromolekulová chémia)		
Mgr. Jaroslav Mosnáček, PhD. (technológia makromolekulových látok)		
Ing. Igor Novák, PhD. (technológia makromolekulových látok)		
Ing. Mária Omastová, DrSc. (makromolekulová chémia)		
Ing. Jozef Rychlý, DrSc. (makromolekulová chémia)		

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2012

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	5	0	2	0
Celkový počet hodín v r. 2012	83	0	11	0

Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úväzku, katedry, fakulty, univerzity/vysokej školy je uvedený v Prílohe D.

Tabuľka 3g Aktivity pracovníkov na VŠ

1.	**Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác**	1
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	1
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	10
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	18
5.	**Počet oponovaných dizertačných a habilitačných prác**	7
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	5
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	6
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	9
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	5

3.6. Iné dôležité informácie k pedagogickej činnosti

V roku 2012 pracovníci ústavu pedagogicky pôsobili ako prednášatelia semestrálnych prednášok a seminárov pre študentov na Prírodovedeckej fakulte UK, Fakulte chemickej a potravinárskej technológie STU v Bratislave, Materiálovo-technickej fakulte STU v Trnave a na Fakulte priemyselných technológií TU AD v Púchove. Vedeckí pracovníci ústavu sa podieľajú aj na výchove doktorandov ako prednášatelia v prednáškových kurzoch a ako vedúci dizertačných prác doktorandov. Pracovisko je akreditované v troch odboroch pri Fakulte chemickej a potravinárskej technológie STU v Bratislave: Makromolekulová chémia, Technológia makromolekulových látok a Fyzikálna chémia, a pri Prírodovedeckej fakulte UK v Bratislave v odbore Fyzikálna chémia. Existujúca spolupráca s vysokými školami sa odrazila aj v záujme študentov pokračovať v doktorandskom štúdiu na ÚPo. V roku 2012 sme získali 3 nových doktorandov. Doktorandské štúdium obhajobou dizertačných prác ukončili štyria doktorandi. Podľa pravidiel podpory doktorandov a získania štipendií z predsedníctva SAV je v súčasnosti naplnená kapacita ústavu v tomto parametri na viac ako 100 %.

V roku 2012 sme zorganizovali pre širokú verejnosť a pre študentov stredných škôl Deň otvorených dverí, ktorý sa stretol s veľkým záujmom. Počas tohto podujatia boli prezentované aktivity jednotlivých oddelení formou prednášok a vývesiek. Informácie o časti výskumných aktivít predniesli v krátkych prednáškach mladí pracovníci a doktorandi: D. Račko, D. Mocinecová a K. Czaniková.

Vedecká rada ÚPo tradične organizuje Súťaž mladých vedeckých pracovníkov do 35 rokov. Tento rok sa súťaže zúčastnili traja mladí vedeckí pracovníci. VR sa na základe prezentácie a predložených publikácií zhodla na ocenení Z. Benkovej za prvé miesto a udelila dve druhé miesta E. Papajovej a M. Mičušíkovi. Finančnú odmenu udelilo vedenie ústavu.

Vedenie ústavu spolu so školiteľmi kladú veľký dôraz na kvalitnú prípravu PhD študentov, ktorej súčasťou sú každoročné hodnotenia doktorandov v septembri, keď po každom uzavretom roku akademickom roku štúdia prezentujú dosiahnuté výsledky.

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2012 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

Štvrtý bratislavský workshop mladých vedcov so zameraním na celú oblasť polymérnej chémie, Relax Hotel Avena – Liptovský Ján, 38 účastníkov, 01.10.-05.10.2012
4TH BRATISLAVA YOUNG POLYMER SCIENTISTS WORKSHOP BYPOS

Pokračovanín predchádzajúcich troch ročníkov Bratislavského workshopu mladých vedcov v oblasti polymérovej chémie bol štvrtý bratislavský workshop mladých vedcov (BYPoS 2012), ktorý sa konal v dňoch 1.–5.10.2012 v Liptovskom Jáne v nádhernom prostredí Nízkych Tatier v Jánskej doline. Organizácie sa ujala Rada mladých vedcov pri Ústave polymérov, ktorá toto stretávanie mladých vedcov naštartovala v roku 2007. Podujatie je dobre známe medzi mladými vedcami nielen na Slovensku a v Čechách, odkiaľ prišlo tradične najviac účastníkov, ale aj v Poľsku, Maďarsku, Rumunsku, Nemecku a v iných Európskych krajinách a tak sa workshop BYPoS stáva krásnou tradíciou stretávania mladých ľudí.
Na workshope odzneli 4 plenárne prednášky a 37 sekčných prednášok. Program bol rozdelený do piatich sekcií a to a.) syntéza, modifikácia a charakterizácia polymérov, b.) polymérne zmesi a kompozity, c.) inteligentné polyméry a biopolyméry, d.) stabilita a degradácia polymérov a e.) fyzika polymérov (teória, modelovanie a simulácia).
V tomto roku prijali pozvanie na workshop aj štyria významní, vo svojej oblasti dobre známi vedci, ktorí odborne zastrešili jednotlivé sekcie workshopu. Sekciu syntézy, modifikácie a charakterizácie polymérov viedla pani profesorka Valéria Harabagiu z Inštitútu makromolekulovej chémie “Petru Poni”, z Iasi v Rumunsku, ktorá prispela plenárnou prednáškou na tému "Functional polymers - building blocks for macromolecular and supramolecular architectures". V Sekcii stabilita a degradácia polymérov mal plenárnu prednášku"Synthetic analogues of biopolyesters - present and future" profesor Marek Kowalczuk z Centra polymérových a uhlíkových materiálov, Poľskej akadémie vied v Zabrze v Poľsku, pán profesor Luis Cadilon Costa z Univerzity v Aveire v Portugalsku s prednáškou "Impedancespectroscopy: a toll to understand polymers." v Sekcii polymérne zmesi a kompozity a pán profesor Robert Liska z Viedenskej technologickej univerzity v Rakúsku s prednáškou na tému "Photopolymerization and Additive Manufacturing Technologies" zaštítil Sekciu inteligentné polyméry a biopolyméry.
Celková atmosféra podujatia bola dotvorená zaujímavým spoločenským programom - výletom za prírodnými krásami, kultúrou a históriou Liptovského regiónu, ktorý zahrnul návštevu Demänovskej jaskyne Slobody a skanzenu ľudovej dediny v Pribyline a spríjemnením jedného z večerov vystúpením goralská folklórnej skupiny.
Organizačný tím po ukončení akcie konštatoval, že vďaka vysokej úrovni prednášok a spoločenskému programu to bol krásny čas strávený v spoločnosti mladých ľudí, ktorí radi diskutujú o svojich vedeckých úlohách a hľadajú nové cesty poznania aj pomocou vzájomnej spolupráce.

VII. Česko-slovenské dni o polyméroch, Kongresové centrum Smolenice, 76 účastníkov, 26.11.-29.11.2012
7TH SLOVAK –CZECH CONFERENCE POLYMERS 2012
(VII. SLOVENSKO-ČESKÁ KONFERENCIA POLYMÉRY 2012)

V dňoch 26.-29.11.2012 sa v Kongresovom centre Smolenice konala VII. Slovensko – Česká konferencia Polyméry 2012 organizovaná Ústavom polymérov SAV.

Slovensko – České resp. Česko - Slovenské konferencie o polyméroch sú organizované v pravidelných 2-ročných intervaloch od r. 2000 buď Ústavom polymérov SAV alebo Ústavom makromolekulární chemie AV ČR, v.v.i. v Prahe. Cieľom týchto konferencií je poskytnúť prehľad o výskume a aplikáciách v oblasti makromolekulovej chémie na Slovensku a v Českej republike spravidla za účasti rôznych inštitúcií z oboch krajín.
VII. Slovensko – Česká konferencia privítala 75 účastníkov, ktorí počas troch dní prezentovali 30 vedeckých prednášok a 29 postrových prezentácií. Organizátori konferencie vytvorili zaujímavý a kvalitný program, počas ktorého bolo sympatické vidieť prezentácie skúsených vedeckých pracovníkov a paralelne popri nich prezentácie mladších vedeckých pracovníkov a tiež doktorandov. Všetky prezentácie boli spojené s bohatou diskusiou. Tiež boli prezentované špeciálne prednášky, v ktorých boli poskytnuté informácie o výskumných smeroch a celkovej situácii na UMCH AV ČR v Prahe (riaditeľ ústavu prof. František Rypáček), na Ústave polymérnych materiálov FChPT STU v Bratislave (prof. Dušan Bakoš) a na Ústave polymérov SAV (riaditeľ ústavu Ing. Igor Lacík, DrSc.). Poslednú prednášku I. Lacík predniesol v kontexte osláv 50. výročia založenia Ústavu polymérov SAV, ktoré sa konali následne po ukončení konferencie. Program konferencie bol neplánovite ale o to krajšie obohatený klavírnym vystúpením Prof. Ing. Ivana Chodáka, DrSc., ktorým pripravil prostredie pre kultúrne prepojenie medzi účastníkmi konferencie.
Tradične vysoká odborná, diskusná a priateľská atmosféra bola podobne ako pri iných ročníkoch aj znakom VII. Slovensko – Českej konferencie Polyméry 2012. Týmto sa chceme poďakovať členom organizačného a vedeckého výboru konferencie a hlavne všetkým účastníkom za jej vysokú úroveň. Tešíme sa na VIII. konferenciu, ktorá bude organizovaná v r. 2014 kolegami z ÚMCH AV ČR v Prahe.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2013 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

5th International Conference Polymeric Materials in Automotive & 21st Slovak Rubber Conference, /V. medzinárodná konferencia o polymérnych materiáloch v automobilovom priemysle 2013, Hotel Bonbón - Bratislava, Slovenská republika, 23.04.-25.04.2013, (Ivan Chodák, 02/ 3229 4340, upolchiv@savba.sk)

10th Anniversary Meeting EUROFILLERS 2013 /Eurofillers 2013, Hotel Park Inn, Bratislava, Slovenská republika, 25.08.-29.08.2013, (Mária Omastová, 02/ 3229 4312, upolmaom@savba.sk)

6th European Weathering Symposium EWS /6. Európske sympózium o poveternostnom starnutí polymérov, Hotel Park Inn, Bratislava, Slovenská republika, 11.09.-13.09.2013, (Lýdia Rychlá, 02/ 3229 4335, upolrych@savba.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	5	0	5

4.2. Členstvo a funkcie v medzinárodných orgánoch

4.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétoch SR

doc. Ing. Dušan Berek, DrSc.

Medzinárodný vedecký výbor Sympózií o separačných vedách (funkcia: člen)
Americká chemická spoločnosť (funkcia: člen)
Central European Group of Separation Sciences (funkcia: člen Riadiaceho výboru)
Trvalý vedecký výbor konferencií „Polychar“ (sídlo Denton, TX, USA) (funkcia: člen)

prof. Ing. Tomáš Bleha, DrSc.

European Academy of Science and Arts (funkcia: člen)
komisia AV ČR pre obhajoby dizertácii DSc v odbore Makromolekulová chémia (funkcia: člen)

Mgr. Peter Kasák, PhD.

Bioadhesive Research Group a COST TD0906 (funkcia: člen)

Mgr. Juraj Kronek, PhD.

Spoločné poľsko-slovenské laboratórium SYNADPOL (funkcia: koordinátor)

Ing. Igor Lacík, DrSc.

Associate Member IUPAC (funkcia: člen)
Bioencapsulation research Group (funkcia: člen)
European Association for the Studies of Diabetes (funkcia: člen)
IUPAC Subcommittee Subcommittee Modeling of Polymerization Kinetics and Processes (funkcia: člen)

Mgr. Jaroslav Mosnáček, PhD.

Americká chemická spoločnosť (funkcia: člen)

Ing. Igor Novák, PhD.

Society of Plastics Engineers, Newtown, Antwerpen, Belgium (funkcia: člen)

Ing. Mária Omastová, DrSc.

European Polymer Federation (funkcia: národný reprezentant SR)

Ing. Lýdia Rychlá, DrSc.

European Academy of Sciences and arts (funkcia: člen)
Národný komitét FEANI (funkcia: člen)

Mgr. Patrik Sobolčiak

COST TD0906 (funkcia: člen)

Ing. Marek Stach, PhD.

IUPAC Subcommittee “Modeling of Polymerization Kinetics and Processes” (funkcia: člen)

4.3. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Bleha Tomáš	pre Agentúru REA, EC Brussels – program SME program Marie Curie	**10** **20**
Danko Martin	NCN (Narodowe Centrum Nauky) – Poľská vládna agentúra pre podporu základného výskumu	**2**
Lacík Igor	Germaine de Stael, Švajčiarsko MSc program, Katar	**1** **1**
Mosnáček Jaroslav	NCN (Narodowe Centrum Nauky) – Poľská vládna agentúra pre podporu základného výskumu	**2**

4.4. Najvýznamnejšie prínosy MVTS ústavu vyplývajúce z mobility a riešenia medzinárodných projektov a iné informácie k medzinárodnej vedeckej spolupráci

Strategy for preservation of plastics artefacts in museum collections.

Číslo projektu: DO7RP–0013–09, zodpovedný riešiteľ: Rychlý Jozef, zmluva s APVV: 03. 2010-03. 2012

Hlavné výsledky:

Základným problémom v prípade muzeálnych plastov je ich správna identifikácia, realizovateľná väčšinou pomocou vhodnej nedeštruktívnej metódy (FTIR, Ramanovská spektroskopia) alebo s použitím mikromnožstva (do 1 mg) vzorky odobranej z artefaktu tam, kde to je možné. Po tejto identifikácii sa ale väčšinou nič nevie o prísadách použitých v plaste a v ktorom mieste trajektórie pôvodného materiálu smerom k nepoužiteľnej verzii v dôsledku degradácie sa nachádzame s našou vzorkou. Náš príspevok spočíval najmä v opise a charakterizácii degradácie modelových plastov prípadne účelovo vytvorených artefaktov. Vychádzali sme pritom z tzv. ResinKitu, ktorý obsahoval 50 základnych plastov čistých aj s rozličnými aditívami a po zmeraní základnych charakteristík týchto plastov pomocou neizotermickej chemiluminiscencie, termogravimetrie, differenciálnej skenovacej kalorimetrie a FTIR spektroskopie sa výsledky využili na „apriori“ identifikáciu 35 plastov dodaných britskou firmou Smile Plastics. Len metódami termickej analýzy a chemiluminiscencie bolo správne identifikovaných 33 z 35 plastov. V tejto súvislosti je potrebné zdôrazniť skutočnosť, že opakovanie identifikácie v dostatočne dlhom časovom horizonte a teda pohyb po časovej osi životnosti plastu je súčasne najlepším postupom, ako získať spoľahlivú informáciu o zvyškovej životnosti skúmaného materiálu. Poukázali sme na skutočnosť, že pokiaľ sa merané krivky intenzity chemiluminiscencie v závislosti od teploty s časom starnutia v porovnaní s pôvodnou vzorkou posúvajú k nižším teplotám, materiál má stále šancu na ďalšie používanie, pokiaľ sa však po tomto posune začnú krivky posúvať k vyšším teplotám, prípadne sa na nich objavuje maximum, začíname sa približovať k možnosti zlyhania materiálu. Táto skutočnosť súvisí s vytváraním (posun doľava po teplotnej osi) a postupným spotrebovávaním (posun doprava po teplotnej osi) reaktívnych centier degradácie vplyvom starnutia.

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.
Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.

5. Vedná politika

Účasť ústavu na rozvoji vednej politiky sa realizovala cez člena SKVH Ing. Igora Lacíka, DrSc. a zastúpením pracovníkov ústavu v Sneme SAV, v Rade riaditeľov II. Oddelenia vied a ďalších komisiách SAV a mimo SAV, ako aj v komisiách grantových agentúr (VEGA, APVV).

6. Spolupráca s univerzitami/vysokými školami, štátnymi a neziskovými inštitúciami okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): spoločné pracovisko
Začiatok spolupráce: 2008
Zameranie: výskum biodegradovateľných plastov
Zhodnotenie: V roku 2012 na základe prihlášky patentu z roku 2011 sa podala prihláška PCT patentu s názvom Biologically degradable polymeric composition with high deformability. Spolupracovalo sa na projekte ERDF Plastice. Ďalej pokračovali práce na vývoji biodegradovateľných zmesí pre vysokotonážne aplikácie. Pripravuje sa prevádzkový pokus výroby obalov na vajcia z nami patentovanej zmesi na báze biodegradovateľných plastov.

Názov univerzity/vysokej školy a fakulty: Materiálovotechnologická fakulta STU v Trnave
Druh spolupráce (spoločné pracovisko alebo iné): spolupráca v rámci pedagogickej práce so študentami a tiež pri školení diplomantov a doktorandov
Začiatok spolupráce: 2006
Zameranie: skúmanie povrchových a adhéznych vlastností kovových materiálov a polymérnych adhezív
Zhodnotenie: spolupráca umožňuje poskytnúť študentom i doktorandom informácie týkajúce sa spájania kovových materiálov lepením a doplniť experimentálne výsledky z tejto oblasti s využitím prístrojov a zariadení na ÚPo SAV.

Názov univerzity/vysokej školy a fakulty: Materiálovotechnologická fakulta STU v Trnave
Druh spolupráce (spoločné pracovisko alebo iné): zmluva o spolupráci
Začiatok spolupráce: 2012
Zameranie: Skúmanie adhéznych vlastností kombinovaných spojov kovových materiálov.
Zhodnotenie: V roku 2012 sa pripravili z oceľových plechov kombinované spoje, ktoré pozostávali zo zváranej časti zosilnenej použitím reaktívnych adhezív na kovové materiály na báze epoxidov alebo polyuretánov. Skúmal sa vplyv termooxidačnej degradácie vytvrdených adhezív pri tepelnom namáhaní pri bodovom zváraní oceľových plechov na pevnosť spojov. Výsledky ukázali, že pevnosti kombinovaných spojov sú o 25 – 30 % vyššie v porovnaní so zváranými spojmi.

6.2. Významné aplikácie výsledkov výskumu v spoločenskej praxi alebo vyriešenie problému pre štátnu alebo neziskovú inštitúciu

Zadávateľ, odberateľ, zmluvný partner: firma Celox, spol. s r. o., Viničné; firma Mikrochem, s. r. o., Pezinok, Vietnam (odberateľ špeciálnych adhezív)
Názov aplikácie/objekt výskumu: vybrané špeciálne adhezíva – príprava ich výroby pre odberateľa v zahraničí
Začiatok spolupráce: 2012

Stručný opis aplikácie/výsledku: Technologický inštitút SAV reprezentovaný p. K. Müllerovou na začiatku roku 2012 inicioval výrobu a ďaľšie využitie vybraných špeciálnych adhezív z ÚPo SAV, ktoré boli postupne od roku 1994 vyvinuté v jeho Technických laboratóriach (I. Novák, V. Pollák). Špeciálne adhezíva, ktorých odberateľom je firma Celox, s.r.o., Viničné sa pred výrobou testujú z hľadiska ich vlastností a parametrov a ich výroba sa pripravuje vo firme Mikrochem spol. s r.o., Pezinok. V súčasnosti sa pripravuje výroba špeciálneho adhezíva Gravipol power určeného pre železničné aplikácie.
Zhodnotenie (uviesť i finančný efekt z aplikácie v € pre organizáciu SAV): prebieha process naštartovania výroby špeciálnych adhezív (overenie receptúry a výber potrebného strojového zariadenia) najmä zásluhou pracovníčky TI SAV p. Müllerovej, ktorá vybavuje ochrannú známku pre adhezíva Gravipol - č. prihlášky: 1698/2012 Gravipol; zoznam zatriedených tovarov a služieb: 1 - Adhezíva (lepiace materiály) na priemyselné účely, lepidlá a spojivá pre priemysel; 16 - Adhezíva, lepidlá a spojivá na kancelárske účely alebo pre domácnosť; 39 - Preprava tovaru; balenie a skladovanie tovaru v triedach 1 a 16 podľa rozpisu; druh známky: kombinovaná; údaje o kolektívnej známke: individuálna; údaje o uplatňovaných farbách: čiernobiela; dátum podania prihlášky: 14.11.2012 - a zabezpečuje pripravu patentovej rešerše pre adhezívum Gravipol power. Finančný efekt bude vyhodnotený vtedy, keď sa bude dané adhezívum vyrábať.

Zadávateľ, odberateľ, zmluvný partner: Tomra Sorting, s. r.o., Pezinok
Názov aplikácie/objekt výskumu: Vývoj kompozície na báze polyamidu so zlepšenými vlastnosťami.
Začiatok spolupráce: 2011
Stručný opis aplikácie/výsledku: Vyvinula sa zmes s požadovanými vlastnosťami. Detaily sú na žiadosť zadavateľa predmetom utajenia.
Zhodnotenie (uviesť i finančný efekt z aplikácie v € pre organizáciu SAV): 6 000.00

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

1) Ústav polymérov SAV sa podieľa na výskume smerom k liečbe cukrovky transplantovanými ostrovčekmi, ktoré sú enkapsulované v polymérnej membráne. Okrem aktívnej účasti na projekte APVV, Chicago Diabetes Projekte, a projekte Európskej asociácie pre štúdium cukrovky sme sa spoločne s pracoviskom UNLP v Košiciach pod vedením MVDr. Jána Rosochu (riaditeľ Združenej tkanivovej banky UN LP Košice) podieľali na príprave materiálu pre MZ SR pre inciáciu programu transplantácie pankreatických ostrovčekov na Slovensku (zodpovedný riešiteľ za ÚPo SAV I. Lacík). Projekt sa dostal do návrhu priorít MZ SR pre slovenské zdravotníctvo v oblasti trasplantácie orgánov, tkanív a buniek na roky 2012–2015.

2) Predaj špeciálnych adhezív vyvinutých na ÚPo SAV firmám na Slovensku v roku 2012 v rámci pravidelných každoročných dodávok:Elektropol 1, Elektropol 2 a Celupol (dodané firmám Ecoson s.r.o., Nové Mesto nad Váhom, SOS Electronic, Košice, Thorn Hobby Elektronik, Zvolen): 4 140.00 €

7. Spolupráca s aplikačnou a hospodárskou sférou okrem aktivít uvedených v kap. 2, 3, 4

7.1. Spoločné pracoviská s aplikačnou sférou

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov kontraktu: Nové materiály prechádzajúce fázovou premenou zo zlepšeným prestupom tepla.
Partner(i): Katar University, Doha, Katar
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2011
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2012
Objem získaných prostriedkov v bežnom roku (€): 10400
Stručný opis výstupu/výsledku: Príprava a testovanie nových materiálov z vysokohustotného polyetylénu a enkapsulovaného parafínového vosku.
Zhodnotenie: Príprava spoločného projektu.

Názov kontraktu: Monomers for adhesive polymers in dental composites.
Partner(i): IVOCLAR VIVADENT, AG. Schaan, Liechtenstein.
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2012
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2012
Objem získaných prostriedkov v bežnom roku (€): 0
Stručný opis výstupu/výsledku: Štúdium kinetiky polymerizácie nových monomérov určených pre adhezíva aplikované do "self-etching" dentálnych výplňových kompozitov. Vypracovanie výskumnej správy a rukopisu publikácie zahrňujúcej niektoré najvýznamnejšie výsledky (J.Pavlinec, A.Kleinová, J.Angermann, I. Lamparth, N. Moszner,"Synthesis and Free-Radical Homo and Copolymerization of 2-Ethoxycarbonylallyl 5-(1,2-Dithiolane-3-yl)-Pentanoate", prijaté k uverejneniu v Journal of Macromolecular Materials and Engineering, 2012.).
Zhodnotenie: Zachovanie kontinuity spolupráce s Ivoclar Vivadent bolo vedeckým ako aj finančným prínosom pre ÚPo.

Názov kontraktu: Technologický postup prípravy poly(L-laktidu) (PLLA) polymerizáciou z L,L-dilaktidu (L-Laktidu, L-LA) s definovanými vlastnosťami.
Partner(i): Tau-Chem, s.r.o. Nobelova 34, 836 05 Bratislava
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2012
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2012
Objem získaných prostriedkov v bežnom roku (€): 4000
Stručný opis výstupu/výsledku: Technologický postup prípravy poly(L-laktidov) s definovanou molekulovou hmotnosťou v kilogramovom merítku.
Zhodnotenie: Uskutočnila sa príprava 100 g produktu PLA v simulovaných podmienkach pre reaktor v praxi. Technologický postup sa implementoval v laboratóriu partnera. Prebieha optimalizácia postupu.

Názov kontraktu: Výroba prípoja k chemiluminiscenčnému prístroju pre UV ožarovanie
Partner(i): DSM Geleen, Holandsko
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2012
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2012
Objem získaných prostriedkov v bežnom roku (€): 7300
Stručný opis výstupu/výsledku: Prípoj pomocou optického kábla umožňuje pripojenie zdroja žiarenia on-line k chemiluminiscenčnému prístroju Lumipol 3
Zhodnotenie: Zariadenie bolo odovzdané a je funkčné

Názov kontraktu: Konštrukcia Lumipolu 3
Partner(i): Queensland University of Technology
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2012
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2013
Objem získaných prostriedkov v bežnom roku (€): 24500
Stručný opis výstupu/výsledku: Konštrukcia nového chemiluminiscenčného prístroja Lumipol 3 pre QUT Brisbane, Australia
Zhodnotenie: Akcia nie je ešte finančne uzavretá (do marca 2013)

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie

8.1. Členstvo v poradných zboroch vlády SR, Národnej rady SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Tabuľka 8a Členstvo v poradných zboroch Národnej rady SR, vlády SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Meno pracovníka	Názov orgánu	Funkcia
Ing. Igor Lacík, DrSc.	Ministerstvo školstva SR	člen Slovenskej komisie pre vedecké hodnosti SKVH
Ing. Jozef Rychlý, DrSc.	Ministerstvo školstva SR	člen pracovnej komisie APVV pre chémiu

8.2. Expertízna činnosť a iné služby pre štátnu správu a samosprávy

8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Tabuľka 8b Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Meno pracovníka	Názov orgánu	Funkcia

8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnymi a parlamentnými orgánmi alebo pre ich potrebu

9. Vedecko-organizačné a popularizačné aktivity

9.1.Vedecko-popularizačná činnosť

9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov organizácie SAV

Tabuľka 9a Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Ing. Klaudia Czaniková		PB	Využitie nanotechnológií vo výskume displeja pre nevidiacich.	Deň otvorených dverí, ÚPo SAV	6.11.2012
Mgr. Martin Danko, PhD.	Jozef Kollár	PB	Svetlo a chémia	Deň otvorených dverí, ÚPo SAV	6.11.2012
Mgr. Martin Danko, PhD.	Jozef Kollár	PB	Svetlo a chémia	Noc výskumníka, stánok ÚPo SAV pre verejnosť, OC Avion Bratislava	28.9.2012
prof. Ing. Ivan Chodák, DrSc.		RO	Magnet - beseda - 45 min	Radio Regina	27.10.2012
Ing. Igor Lacík, DrSc.		TL	Annual meeting of the Central and East European Polymer Network CEEPN, Slovakia, Smolenice, (November 21-23, 2011)	Polimery- 2012, vol. 57, no. (2),	2012
Ing. Igor Lacík, DrSc.		RO	Ľudia, komentáre, udalosti	Radio Devín	24.11.2012
Ing. Igor Lacík, DrSc.		PB	Magické hydrogély: kontaktné šošovky a iné využitie pre ľudské zdravie	prednáška v rámci akcie venovanej 100. výročiu narodenia Otta Wichterleho a Svetového dňa kontaktnej šošovky, Slovenské národné múzeum, Bratislava	28.4.2012
Ing. Igor Lacík, DrSc.		PB	Mikrokapsule v liečbe cukrovky	prednáška pre Dia-mamičky, Bratislava	24.3.2012
Ing. Igor Lacík, DrSc.		PB	Polymérne mikrokapsule: pomôžeme v liečbe cukrovky ?	Klub talentovaných študentov FChPT STU, Bratislava	7.11.2012
Ing. Igor Lacík, DrSc.		PB	Pomôžu polymérne mikrokapsule v liečbe cukrovky?	Združenie diabetikov DIAZIL, Žilina	3.11.2012
Ing. Igor Lacík, DrSc.		RO	Rozhovor o liečbe cukrovky enkapsulovanými ostrovčekmi „Slovaks Edge Closer to a Diabetes Cure	Slovak Radio International	26.10.2012
Ing. Igor Lacík, DrSc.		RO	Rozhovor o ÚPo SAV a poly méroch - „Slovak Polymer Research“	Slovak Radio International	3.2.2012

Ing. Igor Lacík, DrSc.		TL	Slovenskí vedci pracujú na liečbe cukrovky	Časopis Diaživot	2012
Ing. Matej Mičušík, PhD.		EX	XPS laboratórium – elektronový spektro-meter pre chemickú analýzu povrchov	Deň otvorených dverí, ÚPo SAV	6.11.2012
Mgr. Marcel Mikulec	Eva Papajová Anna Zahoranová	PB	Polyméry v medicíne	Deň otvorených dverí, ÚPo SAV	6.11.2012
Mgr. Marcel Mikulec	Eva Papajová Anna Zahoranová	PB	Polyméry v medicíne	Noc výskumníka, stánok ÚPo SAV pre verejnosť, OC Avion Bratislava,	28.9.2012
Ing. Dušana Mocinecová		PB	Ako môžu polyméry pomôcť diabetikom	Deň otvorených dverí, ÚPo SAV	6.11.2012
Ing. Dušana Mocinecová		EX	Ako môžu polyméry pomôcť diabetikom	Deň otvorených dverí, ÚPo SAV	6.11.2012
Ing. Igor Novák, PhD.		TL	Nanotechnológie vo výrobe automobilov.	Strojárstvo Strojírenství- 2012, roč. 16, č. 12, s. 18.	2012
Ing. Igor Novák, PhD.		TL	Nanotechnológie vo výrobe automobilov.	Strojárstvo/ Strojírenství -2012, roč. 16, č. 7-8, s. 6-7.	2012
Ing. Igor Novák, PhD.		TL	Náter na kovy v exteriéri.	Urob si sám - 2012, roč. XV, č.5, s. 21-22.	2012
Ing. Igor Novák, PhD.		TL	Náterové látky na fasády.	Urob si sám - 2012, roč. XV, č. 8, s. 30 - 32.	2012
Ing. Igor Novák, PhD.		TL	Odstraňovanie starých náterov.	Urob si sám- 2012, roč. XV, č. 3, s. 23-25.	2012
Ing. Igor Novák, PhD.		TL	Tmelíme a maľujeme steny bytu.	Urob si sám- 2012, roč. XV, č. 3, s. 16-18.	2012
Ing. Igor Novák, PhD.	Ondrej Žigo	TL	Polyméry a ich kompozity v automotive.	Strojárstvo/ Strojírenství-2012, roč. 16, č. 4, s. 54-56.	2012
Ing. Mária Omastová, DrSc.		IN	Robíme displej pre nevidiacich	http://tech.sme.sk/c/6371076/omastova-robime-displej-pre-nevidiacich.	2012
Ing. Mária Omastová, DrSc.	kolektív	EX	Výskum a vývoj polymérnych kompozitov, nano-kompozitov, zmesí ako aj polymérnych povrchov	Deň otvorených dverí, ÚPo SAV	6.11.2012
Ing. Mária Omastová, DrSc.	kolektív	PB	Výskum a vývoj polymérnych kompozitov, nano-kompozitov, zmesí ako aj polymérnych povrchov	Deň otvorených dverí, ÚPo SAV	6.11.2012
Ing. Anton Popelka, PhD.		PB	Špeciálne adhezíva	Noc výskumníka, stánok ÚPo SAV pre verejnosť, OC Avion Bratislava	28.9.2012
Ing. Dušan Račko, PhD.		PB	Malé veľké simulácie a makromolekuly	Deň otvorených dverí, ÚPo SAV	6.11.2012
Ing. Dušan Račko, PhD.	Peter Palenčár	EX	Simulujeme: Los polymeros	Noc výskumníka, stánok ÚPo SAV pre verejnosť, OC Avion Bratislava	28.9.2012

Ing. Jozef Rychlý, DrSc.		EX	Konický kalorimeter - horenie materiálov –	Deň otvorených dverí, ÚPo SAV	6.11.2012
Ing. Alena Šišková	Silvia Podhradská	TL	Workshop mladých vedcov v polymérnej chémii s medzinárodnou účasťou.	In ChemZi : slovenský časopis o chémii pre chemické vzdelávanie, výskum a priemysel.-2012, roč. 8, č. 2, s. 72	2012
Ing. Marian Valentin		EX	Nanoindentor - prístroj na meranie mechanických vlastností na povrchu materiálov mechanických	Deň otvorených dverí, ÚPo SAV	6.11.2012

[1] PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film

9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	11	tlač	10	TV	0
rozhlas	4	internet	1	exkurzie	6
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
Štvrtý bratislavský workshop mladých vedcov so zameraním na celú oblasť polymérnej chémie	medzinárodná	Relax Hotel Avena – Liptovský Ján	01.10.-05.10.2012	38
VII. Česko-slovenské dni o polyméroch	medzinárodná	Kongresové centrum Smolenice	26.11.-29.11.2012	76

9.3. Účasť na výstavách

Názov výstavy: 39. medzinárodný veľtrh Agrokomplex 2012
Miesto konania: stánok SAV, výstavisko Agrokomplex, Nitra
Dátum: 8.2012
Zhodnotenie účasti:

Názov výstavy: 33. medzinárodný veľtrh Coneco 2012
Miesto konania: Stánok SAV, výstavisko Incheba Expo, Bratislava
Dátum: 3.2012
Zhodnotenie účasti:

Názov výstavy: 14. medzinárodná zdravotnícka výstava Slovmedica 2012
Miesto konania: stánok SAV, výstavisko Incheba Expo, Bratislava
Dátum: 9.2012
Zhodnotenie účasti:

Názov výstavy: 19. medzinárodný strojársky veľtrh
Miesto konania: stánok Slovenskej zváračskej spoločnosti, výstavisko Agrokomplex, Nitra
Dátum: 5.2012
Zhodnotenie účasti:

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9d Programové a organizačné výbory národných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	5	3	2

9.5. Členstvo v redakčných radách časopisov

Doc. Ing. Dušan Berek, DrSc.

Current Analytical Chemistry (Pakistan) (funkcia: člen edičnej rady)
Chemistry and Chemical Technology (Ukraina) (funkcia: člen edičnej rady)
International Journal of Polymeric Materials (USA) (funkcia: člen edičnej rady)
Macromolecules - An Indian Journal (India) (funkcia: člen edičnej rady)

Prof., RNDr. Ignác Capek, DrSc.

Journal of Surface Science and Technology (funkcia: člen edičnej rady)

Ing. Zuzana Hloušková

ChermZi (funkcia: členka redakčnej rady)

Prof. Ing. Ivan Chodák, DrSc.

Open Macromolecules Journal, Bentham (funkcia: člen redakčnej rady)
Plasty a kaučuk (ČR) (funkcia: člen edičnej rady)

Ing. Igor Lacík, DrSc.

Chemical Industry and Chemical Engineering Quarterly (Srbsko a Čierna Hora) (funkcia: člen international advisory board)

Mgr. Jaroslav Mosnáček, PhD.

časopis ISRN Polymer Science (funkcia: člen edičnej rady)

Ing. Igor Novák, PhD.

CHEMagazín (ČR) (funkcia: externý člen edičnej rady)
Urob si sám (funkcia: člen redakčnej rady)

Ing. Mária Omastová, DrSc.

ChemZi (funkcia: členka redakčnej rady)
Chemical Papers (funkcia: členka redakčnej rady)

9.6. Činnosť v domácich vedeckých spoločnostiach

doc. Ing. Dušan Berek, DrSc.

Slovenský národný komitét chémie pre IUPAC (funkcia: podpredseda)
výbor odborných skupín Polyméry a Chromatografia SCHS (funkcia: člen)
Učená spoločnosť SAV (funkcia: emeritný člen)

prof. Ing. Tomáš Bleha, DrSc.

Učená spoločnosť SAV (funkcia: člen)

Mgr. Martin Danko, PhD.

SCHS (funkcia: podpredseda výboru odbornej skupiny Polyméry)

RNDr. Agnesa Fiedlerová

SCHS (funkcia: tajomníčka výboru odbornej skupiny Polyméry)

Štefan Chmela, DrSc.

SCHS (funkcia: člen výboru odbornej skupiny Polyméry)

prof. Ing. Ivan Chodák, DrSc.

Učená spoločnosť SAV (funkcia: člen)

Ing. Igor Lacík, DrSc.

Slovenský národný komitét IUPAC (funkcia: člen)
Učená spoločnosť SAV (funkcia: člen)

Ing. Mária Omastová, DrSc.

SCHS (funkcia: predsedníčka výboru odbornej skupiny Polyméry)
SCHS (funkcia: podpredsedníčka)
Učená spoločnosť SAV (funkcia: členka)

Ing. Marek Stach, PhD.

Slovenský národný komitét IUPAC (funkcia: člen)

9.7. Iné dôležité informácie o vedecko-organizačných a popularizačných aktivitách

V r. 2012 Ústav polymérov SAV organizoval dve medzinárodné vedecké podujatia:

- 4th Bratislava Young Polymer Scientists Workshop BYPoS (Štvrtý bratislavský workshop mladých vedcov so zameraním na celú oblasť polymérnej chémie), 1.-5. októbra 2012; Relax Hotel Avena – Liptovský Ján (zodpovedný pracovník: Podhradská Silvia)
- 7th Czecho-Slovak Days on Polymers (VII. Česko-slovenské dni o polyméroch), November 26-29, 2012, Congress Center Smolenice (zodpovedný pracovník: Janigová Ivica)

Pracovníci Ústavu polymérov SAV sa podieľajú na propagácii výstupov ústavu a SAV rôznou formou v médiách, vo vedecko-náučných a popularizačných časopisoch, účasťou na Noci výskumníka, Týždni vedy a techniky a tiež v rôznych diskusných stretnutiach s odbornou a laickou verejnosťou. V spolupráci s chemickou firmou BASF Slovensko je ústav spolupropagátorom akcie Future city (http://chemgeneration.com/sk/futurecity.html), ktorej cieľom je stimulovať mladú generáciu k štúdiu chémie. Práca na téme liečby cukrovky je propagovaná cez neinvestičný fond Cukrovka n.f. (www.cukrovkanf.sk)

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		**11 544**
z toho	knihy a zviazané periodiká	**11 405**
	audiovizuálne dokumenty	**0**
	elektronické dokumenty (vrátane digitálnych)	**0**
	mikroformy	**0**
	iné špeciálne dokumenty - dizertácie, výskumné správy	**139**
Počet titulov dochádzajúcich periodík		**3**
z toho zahraničné periodiká		**2**
Ročný prírastok knižničných jednotiek		**12**
v tom	kúpou	**12**
	darom	**0**
	výmenou	**0**
	bezodplatným prevodom	**0**
Úbytky knižničných jednotiek		**472**
Knižničné jednotky spracované automatizovane		**0**

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu		**1130**
z toho	odborná literatúra pre dospelých	**1025**
	výpožičky periodík	**105**
	prezenčné výpožičky	**0**
MVS iným knižniciam		**7**
MVS z iných knižníc		**5**
MMVS iným knižniciam		**0**
MMVS z iných knižníc		**7**
Počet vypracovaných bibliografií		**0**
Počet vypracovaných rešerší		**128**

10.3. Používatelia

Tabuľka 10c Užívatelia

Registrovaní používatelia	**55**
Návštevníci knižnice spolu (bez návštevníkov podujatí)	**85**

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	**0**
Náklady na nákup knižničného fondu v €	**3550,00**

10.5. Iné informácie o knižničnej činnosti

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo vo vedeckých kolégiách SAV

RNDr. Peter Cifra, DrSc.

VK SAV pre chemické vedy (člen)

Ing. Mária Omastová, DrSc.

VK SAV pre chemické vedy (členka)

Ing. Jozef Rychlý, DrSc.

VK SAV pre chemické vedy (člen)

11.4. Členstvo v komisiách SAV

prof. Ing. Tomáš Bleha, DrSc.

Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)

prof. Ing. Ivan Chodák, DrSc.

Komisia SAV pre duševné vlastníctvo (člen)
Komisia SAV pre infraštruktúru (člen)
Rada programu centier excelentnosti SAV (člen)

Ing. Lýdia Rychlá, DrSc.

Porota pre udeľovanie Medzinárodnej ceny SAV (člen)

Ing. Jozef Rychlý, DrSc.

Komisia SAV pre ekonomické otázky (člen)

11.5. Členstvo v orgánoch VEGA

RNDr. Peter Cifra, DrSc.

komisia VEGA č.3 pre chemické vedy, chemické inžinierstvo a biotechnológie (člen)

Ing. Mária Omastová, DrSc.

komisia VEGA č.3 pre chemické vedy, chemické inžinierstvo a biotechnológie (členka)

12. Hospodárenie organizácie

12.1. Náklady PO SAV

Tabuľka 12a Náklady PO SAV (v €)

Kategória	Plán na rok 2012 (posl. uprav.)	Skutočnosť k 31.12.2012 celkom	z toho:	
			z príspevku	z vlastných zdrojov
Kapitálové výdavky	**57 874**	**114 557**	**57 874**	**56 683**
Náklady spolu:	**1 814 817**	**2 451 142**	**1 288 732**	**934 621**
z toho:				
- mzdové náklady (účet 521)	**721 075**	**871 011**	**631 575**	**239 436**
- odvody do poisťovní a NÚP (účet 524-525)	**260 070**	**277 243**	**229 735**	**47 508**
- vedecká výchova	**144 149**	**144 149**	**144 149**	**0**
- náklady na projekty (VEGA, APVT, APVV, ŠPVV, MVTP, ESF a i.)	**689 523**	**1 158 739**	**186 582**	**972 157**
- náklady na vydávanie periodickej tlače	**0**	**0**	**0**	**0**

12.2. Tržby PO SAV

Tabuľka 12b Tržby PO SAV (v €)

Kategória	Plán na rok 2012	Plnenie k 31.12.2012
Výnosy spolu:	**1 814 817**	**2 451 142**
z toho:		
- príspevok na prevádzku (účet 691)	**1 288 732**	**1 288 732**
- vlastné tržby spolu:	**526 085**	**1 252 410**
z toho:		
- tržby za nájomné	**18 876**	**18 876**
- tržby za riešenie projektov (tuzemských + zahraničných, z účtu 64)	**507 209**	**1 233 534**

13. Nadácie a fondy pri organizácii SAV

Názov: Fond na podporu mladých vedcov
Zameranie: Štartovací grant
Opis: Štartovací grant je Fondom na podporu mladých vedeckých pracovníkov. Zámerom poskytovania uvedeného grantu je prínos nových problematík na pracovisko a uľahčenie začiatku vo výskume mladším tvorivým pracovníkom.

Názov: Neinvestičný fond Cukrovka n.f. (www.cukrovkanf.sk)
Zameranie: Podpora výskumu spojeného s liečbou cukrovky transplantáciou pankreatických ostrovčekov
Opis: Pod patronátom Ústavu polymérov SAV a Univeristy of Illinois Foundation (Chicago Diabetes Project) pracuje neinvestičný fond Cukrovka n.f. (www.cukrovkanf.sk). Fond vznikol s cieľom získať prostriedky na podporu výskumu spojeného s liečbou cukrovky transplantáciou pankreatických ostrovčekov, ktoré sú enkapsulované v polymér¬nej membráne, ako aj prostriedky pre všetky ďalšie aktivity spojené s liečbou cukrovky, podporu vzdelávania a informovania verejnosti o nových trendoch v liečbe cukrovky. Vedúcim odborným garantom je Ing. Igor Lacík, DrSc. a ďalšími odbornými garantami sú MUDr. Viera Doničová, PhD. (diabetologická ambulancia Košice), a MUDr. Vladimír Štrbák, DrSc. (Ústav experimentálnej endokrinológie SAV).Cukrovka n.f. propaguje aktivity tímu Ústavu polymérov SAV, podáva informáciu o súčasných trendoch v liečbe a monitorovaní cukrovky, vytvára kontakty s pacientami a rodinnými príslušníkmi, ktorých sa týka ochorenie cukrovky. Vďaka poukázanej 2 % dani, sponzorom a predloženým projektom sa získavajú finančné prostriedky, ktoré sa využívajú v zmysle účelu fondu.

14. Iné významné činnosti organizácie SAV

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2012

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Omastová Mária
Cena SAV za súbor vedecko - výskumných prác
Oceňovateľ: SAV
Opis: a kolektív v zložení: - Mičušík Matej, Podhradská Silvia, Mosnáčková Katarína, Czaniková Klaudia - Cena SAV za súbor vedecko - výskumných prác v interdisciplinárnom výskume elektricky vodivých polymérnych kompozitov a nanokompozitov.

15.1.2. Iné domáce ocenenia

Berek Dušan
Honorary medal Ústavu polymérov SAV
Oceňovateľ: Ústav polymérov SAV
Opis: Honorary medal Ústavu polymérov SAV pri príležitosti 50. výročia jeho založenia

Bleha Tomáš
Honorary medal Ústavu polymérov SAV
Oceňovateľ: Ústav polymérov SAV
Opis: Honorary medal Ústavu polymérov SAV pri príležitosti 50. výročia jeho založenia

Hrdlovič Pavol
Honorary medal Ústavu polymérov SAV
Oceňovateľ: Ústav polymérov SAV
Opis: Honorary medal Ústavu polymérov SAV pri príležitosti 50. výročia jeho založenia

Chodák Ivan
„Osobnosť vedy a techniky“
Oceňovateľ: Minister školstva, vedy, výskumu a športu
Opis: Cena Ministra školstva, vedy, výskumu a športu SR „Osobnosť vedy a techniky“

Chodák Ivan
Honorary medal Ústavu polymérov SAV
Oceňovateľ: Ústav polymérov SAV
Opis: Honorary medal Ústavu polymérov SAV pri príležitosti 50. výročia jeho založenia

Omastová Mária
Medaila Slovenskej chemickej spoločnosti
Oceňovateľ: Slovenská chemická spoločnosť

Omastová Mária
Prémia Literárneho fondu
Oceňovateľ: Literárny fond
Opis: II. miesto za trojročný vedecký ohlas v kategórii technické vedy a geovedy za rok 2012.

Pavlinec Juraj
Honorary medal Ústavu polymérov SAV
Oceňovateľ: Ústav polymérov SAV
Opis: Honorary medal Ústavu polymérov SAV pri príležitosti 50. výročia jeho založenia

Rychlá Lýdia
Honorary medal Ústavu polymérov SAV
Oceňovateľ: Ústav polymérov SAV
Opis: Honorary medal Ústavu polymérov SAV pri príležitosti 50. výročia jeho založenia

Rychlý Jozef
Honorary medal Ústavu polymérov SAV
Oceňovateľ: Ústav polymérov SAV
Opis: Honorary medal Ústavu polymérov SAV pri príležitosti 50. výročia jeho založenia

15.2. Medzinárodné ocenenia

Czaniková Klaudia
ocenenie za najlepší poster na medzinárodnej konferencii ICPAC 2012
Oceňovateľ:
Opis: The International Conference on Pure and Applied Chemistry, Maurícius, 2.-6. júl 2012

Chodák Ivan
Zlatá medaila -Taipei International Invention Show and Technomart 2012
Oceňovateľ: Taipei International Invention Show and Technomart 2012
Opis: Zlatá medaila za „Biologicky degradovateľné a kompostovateľné polyméry s vysokou mierou deformovateľnosti” na 8. ročníku prestížneho medzinárodného veľtrhu vynálezov a technológií

Ilčíková Markéta
ocenenie za najlepší poster na konferencii PLASTKO 2012
Oceňovateľ: Univerzita Tomáša Baťu, Zlín, ČR,
Opis: Univerzita Tomáša Baťu, Zlín, ČR, 11.-12.4.2012

16. Poskytovanie informácií v súlade so zákonom č. 211/2000 Z. z. o slobodnom prístupe k informáciám v znení neskorších predpisov (Zákon o slobode informácií)

Na pracovisku nebola zaznamenaná žiadna požiadavka o poskytnutie informácií v zmysle uvedeného zákona.

17. Problémy a podnety pre činnosť SAV

Rok 2013 je rokom volieb do P SAV. Kandidáti vo svojich prioritách a víziách definujú oblasti, ktoré je potrebné akútne riešiť, aby sa SAV dostala na štandardnú úroveň inštitúcií, v ktorých medzi základné aktivity patrí tvorivá vedecká práca. Počet priorít je vysoký a budeme sledovať, ako sa ich podarí P SAV naplniť. Vedenie Ústavu polymérov SAV bude v tomto smere aktívne spolupracovať s novým P SAV.
Podarilo sa nám vytvoriť pomerne kvalitné podmienky z pohľadu infraštruktúry, avšak rozvoj ústavu (a SAV), ďalšie financovanie, kvalita projektov a kvalita výstupov je kriticky podmienená kvalitou ľudských zdrojov. Veríme, že jednou zo základných naplnených priorít bude vytvorenie podmienok pre podporu a udržanie mladej generácie kvalitných vedeckých pracovníkov pre budúcnosť SAV.

Správu o činnosti organizácie SAV spracoval(i):

Ing. Katarína Csomorová, 02/ 3229 4307
Ing. Angela Kleinová, 02/ 3229 4368
Ing. Igor Lacík, DrSc. 02/ 3229 4308
Mgr. Monika Majerčíková 02/ 3229 4319
Ing. Mária Omastová, DrSc. 02/ 3229 4312
Ing. Nadežda Petrenčíková 02/ 3229 4371
Mgr. Zdenko Špitálsky, PhD., 02/ 3229 4325

Riaditeľ organizácie SAV:

.....
Ing. Igor Lacík, DrSc.

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2012

Zoznam zamestnancov podľa štruktúry (nadväzne na údaje v Tabuľke 1a)

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	Ing. Josef Bartoš, DrSc.	100	1.00
2.	Doc. Ing. Dušan Berek, DrSc.	40	0.40
3.	Prof. Ing. Tomáš Bleha, DrSc.	50	0.50
4.	Prof., RNDr. Ignác Capek, DrSc.	100	1.00
5.	RNDr. Peter Cifra, DrSc.	100	1.00
6.	Štefan Chmela, PhD.	100	1.00
7.	Prof. Ing. Ivan Chodák, DrSc.	100	1.00
8.	Ing. Igor Lacík, DrSc.	100	1.00
9.	Ing. Mária Omastová, DrSc.	100	1.00
10.	Ing. Lýdia Rychlá, DrSc.	90	0.90
11.	Ing. Jozef Rychlý, DrSc.	80	0.88
Samostatní vedeckí pracovníci			
1.	Mgr. Zuzana Benková, PhD.	100	0.00
2.	Mgr. Martin Danko, PhD.	100	1.00
3.	Ing. Ivica Janigová, PhD.	100	1.00
4.	Mgr. Peter Kasák, PhD.	100	0.92
5.	Mgr. Jozef Kollár, PhD.	100	1.00
6.	Ing. Csaba Kósa, PhD.	100	1.00
7.	Mgr. Juraj Kronek, PhD.	100	1.00
8.	Ing. Igor Krupa, PhD.	100	0.75
9.	Ing. Matej Mičušík, PhD.	100	1.00
10.	Mgr. Jaroslav Mosnáček, PhD.	100	1.00
11.	Ing. Igor Novák, PhD.	100	1.00
12.	Ing. Dušan Račko, PhD.	100	1.00
13.	Ing. Marek Stach, PhD.	100	1.00
14.	Mgr. Zdenko Špitálsky, PhD.	100	1.00
Vedeckí pracovníci			
1.	Ing. Anita Andicsová, PhD.	100	0.25
2.	Mgr. Branislav Husár, PhD.	100	0.00
3.	Ing. Daniela Jochec Mošková, PhD.	100	0.04
4.	Ing. Gabriela Kolláriková, PhD.	100	1.00
5.	Mgr. Zuzana Kroneková, PhD.	60	0.40
6.	Ing. Marta Malíková, PhD.	100	0.00

7.	Ing. Andrea Mihálová, PhD.	100	0.58
8.	Mgr. Katarína Mosnáčková, PhD.	100	0.40
9.	Ing. Andrea Oravcová, PhD.	100	0.33
10.	Mgr. Peter Palenčár, PhD.	100	1.00
11.	Ing. Eva Papajová	100	0.85
12.	Mgr. Silvia Podhradská, PhD.	100	1.00
13.	Ing. Anton Popelka	100	0.33
14.	Mgr. Patrik Sobolčiak	100	0.40
15.	Ing. Helena Švajdlenková, PhD.	100	1.00
16.	Ing. Lucia Učňová, PhD.	100	0.00
17.	Ing. Ondrej Žigo, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním			
1.	Ing. Katarína Borská	10	0.10
2.	Ing. Katarína Csomorová	100	1.00
3.	Ing. Klaudia Czaniková	10	0.23
4.	RNDr. Agnesa Fiedlerová	100	1.00
5.	Ing. Zuzana Hloušková	100	1.00
6.	Ing. Ľudmila Hrčková	100	1.00
7.	Ing. Anna Chovancová	10	0.10
8.	Ing. Markéta Ilčíková	10	0.23
9.	Ing. Angela Kleinová	100	1.00
10.	Mgr. Igor Koreň	20	0.20
11.	Ing. Juraj Krajči	10	0.10
12.	Ing. Ján Kratochvíla	10	0.10
13.	Ing. Miroslava Lukešová	10	0.10
14.	Ing. Eva Macová	80	0.80
15.	Mgr. Monika Majerčíková	100	1.00
16.	Mgr. Marcel Mikulec	10	0.10
17.	Ing. Dušana Mocinecová	10	0.10
18.	Ing. Zuzana Nógellová	100	1.00
19.	Ing. Nadežda Petrenčíková	100	1.00
20.	Mgr. Jozef Prachár	10	0.03
21.	Ing. Jana Riecka	10	0.10
22.	Ing. Milica Riecka	10	0.10
23.	Mgr. Vladislav Semak	100	0.92
24.	Ing. Alena Šišková	10	0.10
25.	Ing. Mária Šivová	100	1.00
26.	Ing. Jana Tabačiarová	10	0.10
27.	Ing. Marian Valentin	10	0.10
28.	Ing. Dominika Vnuková	10	0.03
29.	Mgr. Anna Zahoranová	10	0.03

Odborní pracovníci ÚSV			
1.	Katarína Cinová	100	1.00
2.	Nadežda Danková	100	1.00
3.	Alena Ďurišová	100	1.00
4.	Janka Fáryová	100	1.00
5.	Eva Hipká	100	1.00
6.	Ivona Hrodeková	100	1.00
7.	Sidónia Kalinová	100	1.00
8.	Jozef Kandráč	80	0.80
9.	Viera Karlíková	100	1.00
10.	Marcela Kimličková	100	1.00
11.	Beata Kosíková	100	1.00
12.	Zuzana Kuželová	100	1.00
13.	Marta Mitošinková	100	1.00
14.	Iveta Nestarcová	100	1.00
Ostatní pracovníci			
1.	Zuzana Ondrušová	100	1.00
2.	Daniela Pírová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedeckí pracovníci			
1.	Ing. Teodora Kocsisová, PhD.	30.9.2012	0.15

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Ing. Katarína Borská	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
2.	Ing. Klaudia Czaniková	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
3.	Ing. Anna Chovancová	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
4.	Ing. Markéta Ilčíková	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
5.	Ing. Juraj Krajči	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
6.	Ing. Ján Kratochvíla	Fakulta chemickej a potravinárskej technológie STU	5.2.21 technológia makromolekulových látok

7.	Ing. Miroslava Lukešová	Fakulta chemickej a potravinárskej technológie STU	4.1.18 fyzikálna chémia
8.	Mgr. Marcel Mikulec	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
9.	Ing. Dušana Mocinecová	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
10.	Mgr. Jozef Prachár	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
11.	Ing. Jana Riecka	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
12.	Ing. Milica Riecka	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
13.	Ing. Alena Šišková	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
14.	Ing. Jana Tabačiarová	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
15.	Ing. Marian Valentin	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
16.	Ing. Dominika Vnuková	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
17.	Mgr. Anna Zahoranová	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
Interní doktorandi hradení z iných zdrojov			
organizácia nemá interných doktorandov hradených z iných zdrojov			
Externí doktorandi			
1.	Ing. Michal Lacko	Fakulta chemickej a potravinárskej technológie STU	5.2.21 technológia makromolekulových látok

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medzivládna dohoda

1.) Nové funkčné kopolyméry na báze cyklických iminoéterov navrhnuté pre biomedicínske aplikácie. *(New functional copolymers based on cyclic iminoethers designed for biomedical applications.)*

Zodpovedný riešiteľ:	Juraj Kronek
Trvanie projektu:	1.1.2012 / 31.12.2013
Evidenčné číslo projektu:	APVV-SK-BG-0038-10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 2255 €

Dosiahnuté výsledky:

Získali sa nové kopolyméry obsahujúce funkčné skupiny, ktoré navyše vykazujú termosenzitívne vlastnosti. Študovala sa ich cytotoxicita a zistilo sa, že uvedené polyméry na báze 2-oxazolínov sú nezávadné a vhodné pre bioaplikácie.

Výstupy:

1. KRONEK, Juraj - LUSTOŇ, Jozef - MIKULEC, Marcel - PETRENČÍKOVÁ, Nadežda - PETROVA, S. – CHRISTOVA, D. Functional polymers based on 2-oxazolines, VII. Slovensko-Česká konferencia Polyméry 2012, 26.-29.11.2012, Smolenice, Slovenská republika, Programový zborník konferencie P29, ISBN 978-80-970923-0-6, p. 26–27.

Programy: COST

2.) Nová generácia cenovo efektívnych materiálov prechádzajúcich fázovou premenou pre zvýšenie účinnosti energie v budovách využívajúcich energiu z obnoviteľných zdrojov. *(Next generation cost effective phase change materials for increased energy efficiency in renewable energy systems in buildings.)*

Zodpovedný riešiteľ:	Marta Malíková
Trvanie projektu:	1.11.2009 / 30.10.2012
Evidenčné číslo projektu:	TU0802
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Dublin Institute of Technology
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	COST: 62275 € Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

Pre charakterizáciu PCM bol vytvorený súbor evaluačných techník a boli vyvinuté matematické modely charakterizácie prestupu tepla a topenia/kryštalizácie v kompozitných materiáloch. PCM

boli aplikované do stavebných systémov s obnoviteľnou energiou (RES) a zistilo sa, že kompozit sadry a PCM zabezpečil vnútornú teplotu objektu 26°C namiesto 30°C v prípade materiálu bez PCM.
Žiadateľ je zároveň Grant Holderom projektu, t.j. mal na starosti prerozdeľovanie a dohľad nad finančnými prostriedkami pre všetky partnerské inštitúcie a generovanie finančných správ.

3.) Dlhodobo udržateľné retardanty horenia pre textil a príbuzné materiály na báze nanočastíc nahradzujúcich konvenčné chemické látky *(Sustainable flame retardancy for textiles and related materials based on nanoparticles substituting conventional chemicals)*

Zodpovedný riešiteľ:	Mária Omastová
Trvanie projektu:	1.5.2012 / 1.5.2016
Evidenčné číslo projektu:	MP1105
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centre for Materials Science and Engineering (CSME), University Gent, Gent, Belgium
Počet spoluriešiteľských inštitúcií:	19 - Fínsko: 2, Francúzsko: 2, Veľká Británia: 3, Taliansko: 3, Litva: 3, Poľsko: 2, Portugalsko: 4
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 2333 €

Dosiahnuté výsledky:
Riešitelia projektu z Ústavu polymérov SAV majú skúsenosti s výskumom nehalogénových retardérov horenia a ich použitím v plastoch. V posledných rokoch sa venovali aj modifikácii textilných materiálov silánmi, ktoré môžu byť použité ako povrchovo aktívne materiály a zároveň ako retardéry horenia textílií. Tím riešiteľov sa venuje prešetreniu synergického efektu kombinácie nanočastíc s konvenčými nehalogenovými retardérmi horenia v textilných materiáloch. Zapojil sa aktívne aj do povrchovej charakterizácie materiálov pomocou röntgenovej fotoelektrónovej spektroskopie.

4.) Európska vedecká sieť pre umelé svaly. *(European scientific network for artificial muscles.)*

Zodpovedný riešiteľ:	Mária Omastová
Trvanie projektu:	8.12.2011 / 7.12.2014
Evidenčné číslo projektu:	MP1003
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Pisa, Pisa, Italy
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Pokračovalo sa v štúdiu starnutia chemicky pripraveného polypyrolu použitím rôznych oxidačných činidiel ako v prítomnosti, tak i bez prítomnosti aniónového tenzidu, kyseliny dodecylbenzén sulfónovej (DBSA). Z dôvodu reprodukovateľnosti sa štúdia rozšírila o ďalšie dve série polypyrolov. Pripravené prášky sme podrobili povrchovej analýze XPS aj objemovej analýze ATR-FTIR a elementárnej analýze, čo umožnilo sledovať a vysvetliť zmeny v danom časovom horizonte ako i mierne rozdiely medzi jednotlivými sériami.

Výstupy:

1. TABAČIAROVÁ, Jana - MIČUŠÍK, Matej - FEDORKO, P. - OMASTOVÁ, Mária. X-ray photoelectron-spectroscopy and conductivity studies of polypyrrole ageing. In EuroEAP 2012: second international conference on Electromechanically active polymer (EAP) transducers & artificial muscles:

Potsdam - Germany, 29 - 30 May 2012: book of abstracts. - Potsdam, Germany: UP Transfer, 2012, p. 15-16. Výveska.

2. OMASTOVÁ, Mária - CZANIKOVÁ, Klaudia - CHORVÁT, D. Jr. - KRUPA, Igor. Photo-actuating properties of nanocomposies of elastomeric matrices and carbon nanotubes. In EuroEAP 2012: second international conference on Electromechanically active polymer (EAP) transducers & artificial muscles: Potsdam - Germany, 29 - 30 May 2012: book of abstracts. - Potsdam, Germany: UP Transfer, 2012, p. 14-15. Výveska.

Programy: 7RP

5.) Nízkoteplotné výmenníky tepla na báze tepelne vodivých polymérnych nanokompozitov. *(Low temperature heat exchangers based on thermally conducting polymers nanocomposites.)*

Zodpovedný riešiteľ:	Ivan Chodák
Trvanie projektu:	1.1.2009 / 30.6.2012
Evidenčné číslo projektu:	227407
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Politecnico di Torino, Taliansko
Počet spoluriešiteľských inštitúcií:	7 - Belgicko: 1, Nemecko: 3, Francúzsko: 1, Taliansko: 1, Rumunsko: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 1149 €

Dosiahnuté výsledky:

Vyvinul sa materiál s tepelnou vodivosťou na úrovni 2,5 – 3,7 W K / m, v rámci projektu sa pripravil prototyp výmeníka tepla z novovyvinutého materiálu na báze kompozitu s plastovou matricou.

6.) Nano-optický mechanický system. *(Nano-optical mechanical systems.)*

Zodpovedný riešiteľ:	Igor Krupa
Trvanie projektu:	1.9.2009 / 31.8.2012
Evidenčné číslo projektu:	Stage 1 CP-FP 228916-1
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Agencia Estatal Consejo Superior de Investigaciones Científicas
Počet spoluriešiteľských inštitúcií:	7 - Nemecko: 1, Španielsko: 2, Veľká Británia: 3, Slovensko: 1
Čerpané financie:	EU: 91959 € MVTS: 2403 € Podpora medzinárodnej spolupráce z národných zdrojov: 30652 €

Dosiahnuté výsledky:

Kľúčovým výsledkom riešenia projektu 7 RP NOMS bola príprava fotoaktuujúceho nanokompozitu na báze etylén vinyl acetátového kopolyméru - EVA (EVATANE 28-25, s obsahom 28 hm.% vinylacetátu) a mnohostenných uhlíkových nanotrubičiek (MWCNT) Na dosiahnutie optimálnej dispergácie trubičiek v polymérnej matrici bola použitá nekovalentná modifikácia použitím kompatibilizátora (cholesteryl 1-pyrénkaroxylát) pri pomere MWCNT /kompatibilizátor = 1/5. Na testovanie foto(termo) aktuácie sa pripravili dva typy vzoriek. Prvý mal tvar Braillovho elementu a bol pripravený vytlačením z formy. Najlepší výsledok aktuácie bol nameraný v prípade kompozitu EVA/0.3 hm.% MWCNT, kde sme zaznamenali 69 μm expanziu pre pripravený Braillov element po ožiarení červenou LED diódou pomocou rastrovacej elektrónovej mikroskopie v kombinácii s kamerou. Pripravené EVA/CNT nanokompozity vo

forme pásikov boli testované počas ožarovania rôznymi metodikami. Na pásikoch bola dokázaná opakovateľná fotoaktuácia pomocou meraní na dynamicko-mechanickom analyzátore, ktorý bol taktiež vybavený LED diódou. Merania ukázali bimodálnu a plne vratnú odozvu pre testované pásiky v závislosti od spôsobu prípravy. Doposiaľ neboli publikované fotoaktuujúce nanokompozity na báze EVA kopolyméru plnených uhlíkovými nanotrubičkami (databáza WOS september 2012).

Výstupy:

1.CZANIKOVÁ, Klaudia - ŠPITALSKÝ, Zdenko - KRUPA, Igor - OMASTOVÁ, Mária. Electrical and mechanical properties of ethylene vinyl acetate based composites. In Materials Science Forum. 2012, vol. 714, p. 193 - 199. ISSN 0255-5476.

2.CZANIKOVÁ, Klaudia – ILČÍKOVÁ, Markéta - KRUPA, Igor - KASÁK Peter - CHORVÁT, D. Jr. - VALENTIN, Marián – ŠLOUF, M. - MOSNÁČEK Jaroslav - MIČUŠÍK, Matej - OMASTOVÁ, Mária. Photo-actuating materials based on elastomers and modified carbon nanotubes. In Journal of Nanophotonics. 2012 vol. 6, 063522 (DOI: 10.1117/1.JNP.6.063522 (1.570- IF2011)

7.) Stratégia zachovania umeleckých artefaktov v muzeálnych zbierkach. *(Strategy for the preservation of plastics artefacts in museums collections.)*

Zodpovedný riešiteľ:	Jozef Rychlý
Trvanie projektu:	1.10.2008 / 31.3.2012
Evidenčné číslo projektu:	031867
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centre de Recherche sur la Conservation des Collections
Počet spoluriešiteľských inštitúcií:	11 - Dánsko: 1, Francúzsko: 3, Veľká Británia: 2, Taliansko: 1, Holandsko: 2, Slovinsko: 1, USA: 1
Čerpané financie:	MVTS-7R: 1000 € Podpora medzinárodnej spolupráce z národných zdrojov: 7424 €

Dosiahnuté výsledky:

U tzv. maligných plastov (polyuretány, PVC, acetát a nitrát celulózy) sa opísal priebeh starnutia sledovaný neizotermickou chemiluminiscenciou, termogravimetriou, diferenciálnou skenovacou kalorimetriou a FTIR po určitých časoch starnutia vzoriek v intervale 0-360 dní.
Softvér, ktorý sme v rámci riešenia projektu použili a ktorý je vylepšením nami vypracovanej predchádzajúcej verzie, umožňuje extrapoláciu z oblasti vyšších a stredných teplôt degradácie do oblasti uživateľských teplôt. Táto skutočnosť mala svoj význam najmä pri porovnávaní vzoriek polyuretánových pien degradovaných vplyvom svetla (25 oC, relatívna vlhkosť 25 %, 0-15 dní) a tepla (90 oC, relatívna vlhkosť 0-50 %, 0-252 dní).

Výstupy:

1. BACCI, M. - CUCCI, C. - VAN OOSTEN, T. - SHASHOUA, Y. - RYCHLÝ, Jozef. Collection Survey : Surveying plastic artefact collections in museum. In Preservation of Plastics Artefacts in Museum Collections. - Bruxelles, Belgium: Éditions du Comité des travaux historiques et scientifiques, February 2012, p. 139 - 149. ISBN 978-2-7355-0770-2.

2. RYCHLÝ, Jozef - RYCHLÁ, Lýdia - LATTUATI-DERIEUX, A. - RICHARDSON, E. Scientific assessment of plastics degradation. In Preservation of Plastics Artefacts in Museum Collections. - Bruxelles, Belgium: Éditions du Comité des travaux historiques et scientifiques, February 2012, p. 159 - 215. ISBN 978-2-7355-0770-2.

3. RYCHLÝ, Jozef - RYCHLÁ, Lýdia. Identification and characterisation of plastic artefacts : Characterisation of plastics - Chemiluminescence. In Preservation of Plastics Artefacts in Museum Collections. - Bruxelles, Belgium: Éditions du Comité des travaux historiques et scientifiques, February 2012, p. 79 - 86. ISBN 978-2-7355-0770-2.

4. RYCHLÝ, Jozef - LATTUATI-DERIEUX, A. - MATISOVÁ-RYCHLÁ, Lýdia - CSOMOROVÁ, Katarína - JANIGOVÁ, Ivica - LAVÉDRINE, B.. Degradation of aged nitrocellulose investigated by thermal analysis and chemiluminescence. In Journal of Thermal Analysis and Calorimetry, 2012, vol. 107, p. 1267 - 1276. (1.604 - IF2011). ISSN 1418-2874.

8.) Orientácia uhlíkových nanorúrok v polymérnych kompozitoch. *(Orientation of carbon nanotubes in polymer composites.)*

Zodpovedný riešiteľ:	Zdenko Špitálsky
Trvanie projektu:	1.3.2009 / 28.2.2012
Evidenčné číslo projektu:	231085
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 600 €

Dosiahnuté výsledky:

Projekt sa finalizoval a bol zaslaný finálny report.

Programy: Multilaterálne - iné

9.) Biologické adhezíva: od biológie ku biomimetike. *(Biological adhesives: from biology to biomimetics.)*

Zodpovedný riešiteľ:	Peter Kasák
Trvanie projektu:	1.1.2011 / 31.12.2014
Evidenčné číslo projektu:	TD0906
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Université de Mons
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

Pripravili sa samozcelovacie hydrogély na báze polysulfobetaínov s katecholovými jednotkami na sieťovanie a deriváty lipoovej kyseliny pre modulovanie vlastnosti povrchu.

Výstupy:

1. SEMAK, Vladislav - MIČUŠÍK, Matej - LAHOVÁ, M. – KASÁK, Peter. Surface modification with lipoic acid derivates for modulation of wettability and adhesion of macromolecules. Abstract book of the 1st International Conference on Biological and Biomimetic Adhesives: Lisbon, Portugal, 9 - 11 May 2012. - Lisbon: University of Lisbon, 2012, p. 36

10.) The Chicago Diabetes Project: Globálna spolupráca pre funkčnú liečbu cukrovky. *(The Chicago Diabetes Project: Global collaboration for a functional cure.)*

Zodpovedný riešiteľ:	Igor Lacík
Trvanie projektu:	1.5.2007 /
Evidenčné číslo projektu:	
Organizácia je	nie

koordinátorom projektu:
Koordinátor: University of Illinois, Chicago
Počet spoluriešiteľských inštitúcií: 5 - Austrália: 1, Švajčiarsko: 1, Taliansko: 1, Nórsko: 1, USA: 1
Čerpané financie:

Dosiahnuté výsledky:
Okrem výsledkov ohľadne stimulácie imunitného systému v kompletnej ľudskej krvi sa ukončili práce týkajúce sa potenciálne toxického charakteru mikrokapsúl, ktoré sa pripravujú v prítomnosti bárnatých iónov, a xenotransplantácie ľudských ostrovčekov chránených v alginátových pregélovaných sférach.

Výstupy:

1. QI, M. - MORCH, Y. - LACÍK, Igor - FORMO, K. - MARCHESE, E. - WANG, Y. - DANIELSON, K. J. - KINZER, K. - WANG, S. - BARBARO, B. - KOLLÁRIKOVÁ, Gabriela - CHORVÁT, Dušan Jr. - HUNKELER, D. - SKJAK-BRAEK, G. - OBERHOLZER, J. - STRAND, B. L. Survival of human islets in microbeads containing high guluronic acid alginate crosslinked with Ca2+ and Ba2+. In Xenotransplantation, 2012, vol. 19, p. 355 - 364. (2.326 - IF2011).

2. MORCH, Y. A. - QI, M. - GUNDERSEN, P. O. M. - FORMO, K. - LACÍK, Igor - SKJAK-BRAEK, G. - OBERHOLZER, J. - STRAND, B. L. Binding and leakage of barium in alginate microbeads. In Journal of Biomedical Materials Research : Part A, 2012, vol. 100A, p. 2939-2947. (2.625 - IF2011).

11.) Určenie rýchlostných konštánt radikálovej polymerizácie vodorozpustných monomérov so špeciálnym dôrazom na nabité a ionizovateľné monoméry. *(Determination of rate coefficients of water-soluble monomers with special emphasis on charged/ionizable monomers.)*

Zodpovedný riešiteľ: Igor Lacík
Trvanie projektu: 1.6.2004 / 31.5.2012
Evidenčné číslo projektu: projekt BASF AG, Ludwigshafen, Nemecko
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií: 2 - Kanada: 1, Nemecko: 1
Čerpané financie:

Dosiahnuté výsledky:
Individuálne rýchlostné konštanty propagácie neiónových a iónových monomérov, opis kopolymerizácie v rôznych kopolymerizačných systémoch, modelovanie rýchlosti polymerizácie a distribúcií mólových hmotností.

Výstupy:

1. SANTANAKRISHNAN, S. - STACH, Marek - LACÍK, Igor - HUTCHINSON, R. A. Aqueous-phase copolymerization of N-vinylpyrrolidone and N-vinylformamide. In Macromolecular Chemistry and Physics, 2012, vol. 213, p. 1330 - 1338. (2.361 - IF2011).

2. WITTENBERG, N. F. G. - BUBACK, M. - STACH, Marek – LACÍK, Igor. Chain transfer to 2-mercaptoethanol with methacrylic acid polymerization in aqueous solution. In Macromolecular Chemistry and Physics, 2012, vol. 213, p. 2653?2658. (2.361 - IF2011).

Programy: Bilaterálne - iné

12.) Fotoaktívne biodegradovateľné polymérne materiály na báze alifatických polyesterov. *(Photoactive biodegradable polymeric materials based on aliphatic polyesters.)*

Zodpovedný riešiteľ:	Martin Danko
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	1 - Poľsko: 1
Čerpané financie:	

Dosiahnuté výsledky:

Nadväzujeme na získané výsledky z fotodegradácie biodegradovateľného a biokompatibilného poly(L-laktidu) (PLA) dopovaného fotoaktívnym benzilom (BZ). Spravila sa porovnávacia štúdia vplyvu fotochémie benzilu na následnú hydrolýzu poly(L-laktidu) a poly(D,L-laktidu). Molekulové charakteristiky PLA boli vyhodnocované na partnerskom pracovisku CMMS PAN. Metódou in situ polymerizácie sa pripravili nanokompozity PLA s uhlíkovými nanotrubičkami, ktoré mali navyše na svojom povrchu iniciačné skupiny, čím dochádzalo i ku graftovaniu nanotrubičiek reťazcami PLA. Pri zamiešaní takýchto nanokompozitov pripravených z dvoch rôznych enantiomérov PLA vznikali doteraz nepozorované termicky stabilné PLA stereokomplexy, ktoré tvorili shish-kebab štruktúry.

Výstupy:

1. BRZEZINSKI, M. - BOGUSLAWSKA, M. - ILČÍKOVÁ, Markéta - MOSNÁČEK, Jaroslav - BIELA, T. Unusual thermal properties of polylactides and polylactide stereocomplexes containing polylactide-functionalized multi-walled carbon nanotubes. In Macromolecules, 2012, vol. 45, p. 8714 - 8721. (5.167 - IF2011).

2. MOSNÁČEK, Jaroslav – BORSKÁ, Katarína – DANKO, Martin – JANIGOVÁ, Ivica. Photochemically promoted degradation of poly(? caprolactone) film. Materials Chemistry and Physics, MATCHEMPHYS-D-12-01853, odoslané (2,234 = IF2011)

13.) Fluorescenčne značené grafén/polymérové nanokompozity. *(Fluorescently labeled graphene/polymer nano-composites.)*

Zodpovedný riešiteľ:	Pavol Hrdlovič
Trvanie projektu:	1.1.2011 / 31.12.2012
Evidenčné číslo projektu:	projekt BASF AG
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	1 - Nemecko: 1
Čerpané financie:	

Dosiahnuté výsledky:

Vizualizovali sa grafénové vrstvy oxidovaného grafitu (GO) a uhlíkové nanotrubičky (CNT) v polymérnych filmoch pomocou konfokálnej mikroskopie (CLSM). GO častice vykazovali výraznú reflexiu svetla z povrchu, a to najmä z hrán častíc, kde sa nachádza niekoľko zlomov jednotlivých vrstiev. Po modifikácií GO polystyrénovými reťazcami ukončenými fluorescenčnou značkou bola táto fluorescencia vo výraznej reflexii neviditeľná. Naopak, CNT modifikované

reťazcami PS z povrchu takúto reflexiu nevykazovali. Pre ich vizualizáciu bolo potrebné označiť matricu polyméru pridaním voľnej fluorescenčnej značky. CLSM dovoľuje vidieť jednotlivé CNT ako 0,5-5 mikrometer veľké body alebo „worm-like“ štruktúry. Po modifikácií CNT-PS na konci PS reťazca fluorescenčnou značkou boli nanorúrky viditeľné i v neznačenej polymérnej matrici ako fluorescenčné body o veľkosti 0,5-2 mikrometer. Modifikácia CNT-PS fluorescenčnou značkou bola potvrdená i pomocou fluorescenčnej korelačnej spektroskopie (FCS). Uvedené fluorescenčné techniky ukázali veľmi dobrú dispergáciu modifikovaných CNT v polymérnej matrici.

14.) Nové inteligentné kopolyméry na báze cyklických iminoéterov. *(New stimuli-responsive copolymers based on cyclic iminoethers.)*

Zodpovedný riešiteľ:	Juraj Kronek
Trvanie projektu:	1.1.2012 / 31.12.2014
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	1 - Bulharsko: 1
Čerpané financie:	

Dosiahnuté výsledky:

Prvý rok riešenia projektu bol zameraný na prípravu poly(2-etyl-2-oxazolínov) obsahujúcich fluorescenčnú koncovú skupinu. Na ich prípravu sa využili dva prístupy. Prvým spôsobom bolo použitie iniciátora obsahujúceho naftalénovú, antracénovú, fenantrénovú ako aj pyrénovú jednotku. Druhým spôsobom bola reakcia živej rastovej častice s funkčnými karboxylovými kyselinami. Pripravené polyméry boli študované fluorescenčnou spektroskopiou a fluorescenčnou mikroskopiou.

Výstupy:

1. KRONEK, Juraj - PETROVA, S. - CHRISTOVA, D. – LUSTOŇ, Jozef. Poly(2-ethyl-2-oxazoline)s bearing fluorescent end-group for biomedical studies, XVII National symposium open to international participation, Polymers 2012, 31.5-2.6.2012, Ribaritsa, Bulharsko, P-58

15.) Nové elektricky vodivé polymérne nanokompozity na báze grafénu. *(New electric conductive polymer nanocoposites based on graphene.)*

Zodpovedný riešiteľ:	Igor Krupa
Trvanie projektu:	1.6.2011 / 31.12.2012
Evidenčné číslo projektu:	SK-PT 0201-10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	1 - Portugalsko: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 2700 €

Dosiahnuté výsledky:

Pripravila sa druhá séria kompozitov, kde namiesto expandovaného grafitu bol použitý jeho derivát grafén oxid, u ktorého sa dosahuje lepšia dispergácia v polymérnej matrici. Získané kompozity boli testované na mechanické a dielektrické vlastnosti.

Výstupy:

Zaslaný prvý draft do European Polymer Journal.

16.) Mikrokapsule pre imunoochranu transplantovaných ostrovčekov: predpovedanie biokompatibility pomocou kompletnej vzorky ľudskej krvi. *(Microcapsules for immunoprotection of transplanted islets: prediction of biocompatibility by whole blood assay.)*

Zodpovedný riešiteľ:	Igor Lacík
Trvanie projektu:	1.7.2011 / 30.6.2012
Evidenčné číslo projektu:	EASD (EFSD New Horizons Collaborative Research Initiative)
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:

Získané výsledky poukazujú na podmienky prípravy mikrokapsúl, ktoré nestimulujú komplement imunitného systému. Keďže na testovanie sa využil test v kompletnej ľudskej krvi, takéto mikrokapsule sa môžu považovať za vhodné z pohľadu biokompatibility a bezpečnosti pre implantáciu do človeka ako príjemcu po splnení ďalších podmienok pre imunitnú ochranu transplantovaných ostrovčekov.

Výstupy:

1. ROKSTAD, A. M. - BREKKE, O. L. - STEINKJER, B. - RYAN, L. - KOLLÁRIKOVÁ, Gabriela - LAMBRIS, J. D. - LACÍK, Igor - MOLLNES, T.E. – ESPEVIK, T. Poly-cation containing alginate microcapsules induce cytokines by a complement-dependent mechanism. In Immunobiology. Vol. 217, 2012, p. 1221.

17.) Štúdium povrchových a adhéznych vlastností polyimidu a jeho kopolymérov. *(Study of surface and adhesive properties of polyimide and its copolymers.)*

Zodpovedný riešiteľ:	Igor Novák
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	-
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	2 - Česko: 2
Čerpané financie:	

Dosiahnuté výsledky:

V roku 2012 boli skúmané PIS blokové kopolyméry s rôznou dĺžkou reťazcov polydimetylsiloxánu (PDMS) v PIS kopolyméri. Skúmali sa pritom povrchové vlastnosti v závislosti od dĺžky PDMS blokov v PIS kopolyméri. V prípade 10 hmot. % PDMS (Mn = 2000 g/mol) v PIS kopolyméri sa dosiahlo 86%-né zaplnenie povrchu kopolyméru reťazcami PDMS, pričom pri kratších reťazcoch PDMS v kopolyméri (Mn = 1000 g/mol) sa zistilo 64%-né zaplnenie povrchu kopolyméru PDMS.

18.) Štúdium povrchových vlastností vybraných funkcionalizovaných polyolefínov. *(Study of surface properties of selected functionalized polyolefins.)*

Zodpovedný riešiteľ:	Igor Novák
Trvanie projektu:	1.1.2012 / 31.12.2015

Evidenčné číslo projektu:	-
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	1 - Česko: 1
Čerpané financie:	

Dosiahnuté výsledky:

V roku 2012 sa skúmala povrchová energia izotaktického polypropylénu (iPP) a nízkohustotného polyetylénu (LDPE) očkovaného kyselinou itakonovou (KI). Rozdiely v hodnotách povrchovej energie získané metódou visiacej kvapky v tavenine pri teplote 200oC v argóne boli pre očkovaný iPP a LDPE menšie v porovnaní s rozdielmi v hodnotách povrchovej energie získanými z meraní uhlov zmáčania.

19.) Príprava a elektrické vlastnosti vodivých polymérnych kompozitov a nanokompozitov. *(Preparation and electrical properties of conducting polymer composites and nanocomposites.)*

Zodpovedný riešiteľ:	Mária Omastová
Trvanie projektu:	1.1.2012 / 31.12.2016
Evidenčné číslo projektu:	-
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	1 - Česko: 1
Čerpané financie:	

Dosiahnuté výsledky:

Syntetizovali sa vodivé polyméry polypyrol (PPy) a polyanilín (PANI) vo vodných roztokoch za prítomnosti rôznych povrchovo aktívnych látok, pričom ako oxidant sa použil dusičnan strieborný. Pri tejto syntéze sa zároveň vyredukujú strieborné častice a získa sa produkt s vysokou elektrickou vodivosťou.

Výstupy:

1. STEJSKAL, J. - BOBER, P. - TRCHOVÁ, M. - PROKEŠ, J. - OMASTOVÁ, Mária. Conducting nanomaterials: Polyaniline and polypyrrole composites with silver. In 1st International Conference on Nanomaterials: Fundamentals and Applications: Book of Abstracts. Štrbské Pleso, 3.-6.10.2012. - Košice: NFA, 2012, p. 67. ISBN 978-80-7097-970-9. Vývеska

2. STEJSKAL, J. - BOBER, P. - TRCHOVÁ, M. - PROKEŠ, J. - OMASTOVÁ, Mária. Hybrid conducting polymer-silver composites. In Macro 2012: Enabling Technologies for a Safe, Sustainable, Healthy World: World Polymer Congress: Blacksburg, USA, June 24-29, 2012: abstracts book on USB key [elektronický zdroj]. - Blacksburg, Virginia USA: VirginiaTech, 2012, [1 p.].Vývеska.

20.) Vplyv vodivosti na dielektrické a magnetické vlastnosti hybridných polymérnych kompozitov. *(Effect of conductivity on dielectric and magnetic properties of hybrid polymer composites.)*

Zodpovedný riešiteľ:	Zdenko Špitálsky
Trvanie projektu:	1.1.2012 / 31.12.2013
Evidenčné číslo projektu:	APVV SK-CZ-0174-11
Organizácia je koordinátorom projektu:	áno

Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:

Pripravila sa prvá séria kompozitov, ktoré boli testované na dielektrické vlastnosti na ÚPo a magnetické na UTB.

Výstupy:

Zaslaný prvý draft do Chemical Papers - accepted.

Programy: European Regional Development Fund (ERDF)

21.) Vývoj inovatívnych postupov pre udržateľné plasty v Strednej Európe. *(Innovative value chain development for sustainable plastics in Central Europe.)*

Zodpovedný riešiteľ:	Ivan Chodák
Trvanie projektu:	1.4.2011 / 31.3.2014
Evidenčné číslo projektu:	3CE368 P1
Organizácia je koordinátorom projektu:	nie
Koordinátor:	National Institute of Chemistry, Ljubljana
Počet spoluriešiteľských inštitúcií:	14 - Taliansko: 3, Poľsko: 2, Slovensko: 4, Slovinsko: 5
Čerpané financie:	MŽP: 4352 € MVTS: 6000 €

Dosiahnuté výsledky:

Zabezpečili sa postupy a spolupráce pre certifikáciu BDP s DIN CERTCO, Berlin, pripravili sa databázy firiem, ktoré majú záujem aplikovať BDP, zorganizovali sa dve konferencie so zámerom podrobne vysvetliť výhody BDP a postupy ich spracovania. V rámci Case study sa dokončil laboratórny výskum materiálu pre výrobu biodegradovateľných obalov na vajcia a pripravil sa prevádzkový pokus na začiatok roka 2013.

Výstupy:

1. CHODÁK, Ivan. Adjusting properties via modification of biodegradable plastics na konferencii trends in bioplastics. 2nd International Plastice Conference, September 17.-18., 2012. Ljubljana, Slovenija.

2. CHODÁK, Ivan.Certifikácia biodegradovatených plastov. Workshop Biodegradovateľné plasty, súčasný stav a perspektívy. 21.10.2012, Nitra, Slovenská republika. Prednáška

Programy: ERANET

22.) Aplikácia polymérnych nanokompozitov s nízkym obsahom grafenu v elektronických zariadeniach. *(Applications of polymer nanocomposites with low content of graphene in electronic devices.)*

Zodpovedný riešiteľ:	Zdenko Špitálsky
Trvanie projektu:	1.1.2012 / 31.12.2014
Evidenčné číslo projektu:	ID 794 (NT-ERA-Net)

Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	P SAV: 48000 €

Dosiahnuté výsledky:

Projekt odštartoval na slovenskej strane v januári 2012 (na poľskej a tureckej trochu neskôr). V roku 2012 sme sa zamerali predovšetkým na prípravu a charakterizáciu grafén oxidu z expandovaného grafitu metódou podľa Brodieho (Spitalský etal Curr. Org. Chemistry 2011), ktorý bol/bude následne využitý na prípravu polymérnych kompozitov s polyestermi na poľskej strane. Pripravené kompozity boli charakterizované na mechanické a elektrické vlastnosti. Bolo zistené, že prídavok expandovaného grafitu nemá vplyv na teplotu topenia, teplotu skelného prechodu ani stupeň kryštalizácie semikryštalického PET, ale zvyšuje jeho termickú stabilitu. Zároveň jeho pridávanie do polyesteru výrazne zvyšuje jeho vodivosť (perkolačný prah na úrovni 0,05wt% plniva), keď sa podarilo dosiahnuť hodnotu vodivosti 0,001 S/cm už pri 0,4 wt% plniva, pričom vyššiu vodivosť kompozitov sa podarilo dosiahnuť rýchlym chladením pripraveného kompozitu v porovnaní s pomalým chladením.
Okrem toho sa pokračovalo v príprave zmesí expandoveného grafitu s fluorescenčnými značkami, keď bolo pozorované výrazné zhášanie.
Poslednou oblasťou, na ktorej sa pracovalo v rámci projektu, bola spolupráca s VÚTCH Žilina, keď sa požadované textílie pokrývali latexovými disperziami expandoveného grafitu a následne sa merala úroveň penetrácie vodivých častíc do textílie a vodivosť pokrytých textílií pre antistatické účely.

Výstupy:

1. PASZKIEWICZ, S. - SZYMCZYK, A. - ŠPITALSKÝ, Zdenko - SOCCIO, M. - MOSNÁČEK, Jaroslav - EZQUERRA, T. A. - ROSLANIEC, Z. Electrical conductivity of poly(ethylene terephthalate)/expanded graphite nanocomposites prepared by In situ polymerization. In Journal of Polymer Science. Part B. Polymer Physics, 2012, vol. 50, p. 1645-1652. (1.531 - IF2011).

2. PASZKIEWICZ, S. - ROSLANIEC, Z. - SZYMCZYK, A. - ŠPITALSKÝ, Zdenko - MOSNÁČEK, Jaroslav. Morphology and thermal properties of expanded graphite (EG)/poly(ethylene terephthalate) (PET) nanocomposites. In Chemik: miesiecznik naukowo-techniczny, 2012, tom. 66, nr. 1, p. 21-30. ISSN 0009-2886.

3. PASZKIEWICZ, S. - SZYMCZYK, A. - ŠPITALSKÝ, Zdenko - MOSNÁČEK, Jaroslav - ROSLANIEC, Z. Effect of expanded graphite on the phase structure and electrical properties of PTT/EG nanocomposites. In Carbon Materials & Polymer Composites Development In Praparation, Investigation, and Application: VII International Scientific and Technical Conference: Ustroň-Jaszowiec, Poland, November 13-16, 2012: programme and book of abstracts. - Gliwice, Poland: Polish Association of Chemical Engineers and Technicians, 2012, p. 49. ISBN 978-83-63555-05-4.

4. PASZKIEWICZ, S. - SZYMCZYK, A. - ŠPITALSKÝ, Zdenko - MOSNÁČEK, Jaroslav - ROSLANIEC, Z. Thermoplastic elastomers containing plate fillers : layered silicates and oxidized graphene sheets. In GrapHEL : a European conference/workshop on the synthesis, characterization and applications of graphene: Mykonos, Greece, 27 - 30 September 2012 : electronic book of abstracts. - Heraklion, Greece: FORTH/ICE/HT, 2012, p. E30.

5. ŠPITALSKÝ, Zdenko - CZANIKOVÁ, Klaudia - KRUPA, Igor - KRATOCHVÍLA, Ján - GRACA, M. P. - COSTA, L. C. - KOYNOV, K. Photoactuation of graphene-polymer nanocomposites. In GrapHEL: a European conference/workshop on the synthesis, characterization and applications of graphene: Mykonos, Greece, 27 - 30 September 2012: electronic book of abstracts. - Heraklion, Greece: FORTH/ICE-HT, 2012, p. 30.

Programy: Iné

23.) Sekundárne relaxácie v 1,4-poly(izoprén)och v závislosti od dĺžky reťazca vo vzťahu k sklovitému prechodu pomocou kombinovaných BDS, PALS a ESR vyšetrovaní. *(Secondary relaxations in 1,4-poly(isoprene)s as a function of chain length in relation to the glass-liquid transition phenomenon by a combined BDS, PALS and ESR investigations.)*

Zodpovedný riešiteľ:	Josef Bartoš
Trvanie projektu:	1.11.2011 / 31.12.2012
Evidenčné číslo projektu:	MVTS No. E111100143
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Institut fuer Festkoerperforschung (IFF), Juelich
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4133 €

Dosiahnuté výsledky:

V rámci nášho prístupového ESMI projektu 7. RP EÚ sa zahájilo systematické termodynamické a dynamické štúdium vplyvu molekulovej hmotnosti v sérii šiestich 1,4-poly(izoprén)ov (1,4-PIP) s rôznou molekulovou hmotnosťou: 800, 1 100, 2 700, 4 300, 10 100 a 800 000 g/mol v kontexte s priebežnými ESR a PALS meraniami.

DSC merania odhalili kvázi-saturačný priebeh teploty sklovitého prechodu od dĺžky reťazca s prakticky rovnakou hodnotou pre dve najvyššie použité molekulové hmotnosti.

Kombinované nízko-frekvenčné (LF-) ako aj vysoko-frekvenčné (HF-) široko-pásmové dielektrické spectroskopické (BDS) merania cez 14 dekád boli vykonané v špičkovom dielektrickom laboratóriu CFM-UPV/EHU, San Sebastián, Španielsko. Zistilo sa, že BDS spektrá vykazujú komplikovaný charakter s klesajúcou dĺžkou 1,4-PIP reťazca, ktorý spočíva vo významnom prekryve troch alebo dokonca štyroch relaxačných procesov v kvapalnom stave 1,4 - PIPov. Detailná dynamická charakterizácia série oligomérnych 1,4-PIPov vyžaduje starostlivé spektrálne analýzy, ktorá budú predmetom pokračovania tohto prístupového ESMI projektu v r. 2013.

Na druhej strane, relatívne jednoduchý charakter LF- a HF-BDS spektier u polymérnej vzorky 1,4-PIP 800 000 umožnil detailnú spektrálnu analýzu v termínoch primárneho ? - a sekundárneho ? - relaxačného času cez veľmi široký teplotný rozsah a nadväznú aplikáciu dvoj-parametrového modelu primárnej ? relaxácie.

Následne, konfrontácia BDS dát s ESR výsledkami spinovej sondy TEMPO odhalila, že prechod z pomalého do rýchleho režimu pri T50G ako aj prechod medzi dvomi sub-režimami rýchleho režimu pri TX1fast je kontrolovaný primárnym ? procesom. Konečne, porovnanie BDS výsledkov s PALS databázou odhalila, že obidve charakteristické PALS teploty pri Tb1 = 1.22 Tg a Tb2 = 1.40Tg súvisia s nástupom tzv.vysoko-frekvenčného krídla relaxačného píku resp. maximom relaxačného píku od segmentálnej dynamiky 1,4-PIP.

Výstupy:

1. BARTOŠ, Josef - ŠVAJDLENKOVÁ, Helena - YU, Y. – KRAUSE-REHBERG, R. - ARRESE-IGOR, S. – ALEGRÍA, A. Atomistic and molecular probe characterization of poly(isoprene)s by PALS and ESR in relation to broadband dielectric spectroscopy. In Abstract Book of Conference Broadband Dielectric Spectroscopy and its Applications BDS 2012, Leipzig, Germany, September 3-7, 2012, p.72. prednaška

2. BARTOŠ, Josef - ŠVAJDLENKOVÁ, Helena – LUKEŠOVÁ, Miroslava - YU, Y. – KRAUSE - REHBERG, R. - ARRESE-IGOR, S. – ALEGRÍA, A. Atomistic and molecular probing of glass-formers by PALS and ESR techniques in relation to broadband dielectric spectroscopy (BDS). In E-Abstracts of Annual Meeting 2012 of European Soft Matter Infrastructure (ESMI) 2012. prednáška

24.) Molekulovo-dynamické simulácie imobilizovaných PEO vrstiev ako potenciálnych bariér proti adhézii proteínov. *(Molecular dynamics simulations of tethered PEO layers as potential barriers to protein adhesion.)*

Zodpovedný riešiteľ:	Zuzana Benková
Trvanie projektu:	1.2.2010 / 31.1.2013
Evidenčné číslo projektu:	SFRH/BPD/63568/2009
Organizácia je koordinátorom projektu:	nie
Koordinátor:	REQUIMTE, Katedra chémie, Univerzita v Porte
Počet spoluriešiteľských inštitúcií:	1 - Portugalsko: 1
Čerpané financie:	

Dosiahnuté výsledky:

Simulácie poukázali na výrazný vplyv špecifických interakcií na štruktúru imobilizovnej vrstvy PEO reťazcov, čo má za následok len kvalitatívnu zhodu sledovaných veličín s teoretickými predpoveďami. Vplyv vody na konformáciu zakotvených reťazcov bol detailne charakterizovaný a zároveň bola aj popísaná zmena v organizácii a dynamických vlastnostiach molekúl vody včlenených do vrstvy PEO.

Výstupy:

1. BENKOVÁ, Zuzana - CORDEIRO, M. N. D. S. Molecular dynamics study of poly(ethylene oxide) chains densely grafted on siloxane surface in dry conditions. In Journal of Physical Chemistry C, 2012, vol. 116, p. 5576 - 3584. (4.805 - IF2011).

2. BENKOVÁ, Zuzana - CIFRA, Peter. Simulation of semiflexible cyclic and linear chains moderately andstrongly confined in nanochannels. In Macromolecules, 2012, vol. 45, p. 2597 - 2608. (5.167 - IF2011).

3. BENKOVÁ, Zuzana - CIFRA, Peter. Comparison of linear and ring DNA macromolecules moderately and strongly confined in nanochannels. Biochemical Society Transaction, accepted.

4. BENKOVÁ, Zuzana - CORDEIRO, M. N. D. S. Molecular dynamics study of water interacting with siloxane surface modified by poly(ethylene oxide) chains, Molecular association in fluid phases and at fluid interfaces EMLG/JMLG Annual Meeting 2012, Eger, Hungary, September 5-9, 2012, upcoming (lecture), http://emlg2012.ektf.hu

5. CIFRA, Peter - BENKOVÁ, Zuzana. Comparison of cyclic and linear DNA chains moderately and strongly confined in nanochannels, Biopolymers-In Vitro, In Silico, and in the Cell, Gordon Research Conference, Newport RI, USA, June 3-8, 2012, (poster), http://www.grc.org/programs.aspx?year=2012&program=biopolym

25.) Nové materiály prechádzajúce fázovou premenou zo zlepšeným prestupom tepla. *(New phase change materials with improved heat transfer properties.)*

Zodpovedný riešiteľ:	Zdenko Špitálsky
Trvanie projektu:	1.11.2011 / 31.10.2014
Evidenčné číslo projektu:	NPRP No. : 4 – 465 – 2 -173
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Qatar University
Počet spoluriešiteľských inštitúcií:	1 - Katar: 1
Čerpané financie:	

Dosiahnuté výsledky:

Podarilo sa pripraviť prvé kompozity, ktoré boli otestované.

Výstupy:

1. ŠPITALSKÝ, Zdenko - KRUPA, Igor - NÓGELLOVÁ, Zuzana - AL-MAADEED, M. A. SA. Nové materiály z vysokohustotného polyetylénu a enkapsulovaného parafínového vosku prechádzajúce fázovou premenou zamerané na efektívne uskladnenie tepla. In POLYMÉRY 2012 - VII. Slovensko - Česká konferencia: Smolenice, 26. - 30. 11. 2012: program a zborník príspevkov. - Bratislava: Ústav polymérov SAV, 2012, s. 100. ISBN 978-80-970923-0-6

Projekty národných agentúr

Programy: VEGA

1.) Štrukturálno-dynamická charakterizácia objemových a priestorovo limitovaných sklotvorných a kryštalizujúcich materiálov pomocou ESR techniky. *(Structure-dynamic characterization of bulk and space-limited glass-forming and crystallizing materials by means of ESR technique.)*

Zodpovedný riešiteľ:	Josef Bartoš
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/0017/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3 642 €

Dosiahnuté výsledky:

V rámci zahájeného systematického charakterizačného štúdia kryštalizujúcich organických látok kombinovaným vyšetrovaním ich mikroštruktúry a dynamiky pomocou molekulovej próby, tj. spinová sonda TEMPO, a atomickej próby, tj. orto-pozitrónium (o-Ps), za použitia ESR resp. PALS techník, sa v typickom reprezentantovi tzv. nepárnych n-alkánov, n-hexadekáne (n-HXD), C16H34, odhalilo množstvo originálnych koincidencií medzi charakteristickými ESR a PALS teplotami, ktoré charakterizujú interlamelárnu vrstvu medzi kryštalitmi [1]. Prvá akceleračná teplota spinovej sondy TEMPO v pomalom režime pri TX1slow << Tm súvisí s odchýlkou od lineárneho priebehu v dôsledku termickej expanzie látky. Následný, najvýraznejší prechod z pomalého do rýchleho režimu pri T50G < Tm koinciduje s tzv. pre-melting oblasťou tuhého n-HXD, ktorá je spojená so zvýšenou konformačnou mobilitou koncových skupín lineárnych reťazcov. Konečne, druhá akceleračná teplota spinovej sondy TEMPO v rýchlom režime pri TX1fast priamo koreluje s kolektívnym kooperatívnym pohybom pri fázovom prechode n-HXD z tuhého do kvapalného stavu pri Tm z DSC techniky a prebieha za veľmi podobnej voľno-objemovej fluktuácie ako rovnaký akceleračný proces v nedávno vyšetrovanej sérii 14 amorfných nízkomolekulových a polymérnych organických systémoch [2]. Celkovo, najmenšia spinová sonda nitroxylového typu TEMPO umožňuje pomocou ESR techniky získať unikátnu informáciu o teplotnom chovaní interlamelárnej vrstvy medzi kryštalitmi v tzv. „rigid“ a „soft“ tuhej fázi n-HXD.

Výstupy:

1. ŠVAJDLENKOVÁ, Helena - ŠAUŠA, O. - ISKROVÁ - MIKLOŠOVIČOVÁ, M. - MAJERNÍK, V. - KRIŠTIAK, J. - BARTOŠ, Josef. On the relationships between guest molecular dynamics and free volume in a series of small molecular and polymer glass-formers. In Chemical Physics Letters, 2012, vol. 539 - 540, p. 39 - 44. (2.337 - IF2011).

2. ŠVAJDLENKOVÁ, Helena – ZALESKI, R. - EDELMANN, M. – LUKEŠOVÁ, Miroslava - BARTOŠ,

Josef. Spin probe dynamics in relation to free volume in crystallizing compounds by ESR and PALS: n-Hexadecane In: Chem.Phys., (F) CHEMPHYS-D-12-00722 – odoslané

2.) Dvojdimenzionálna kvapalinová chromatografia komplexných polymérových systémov. *(Two-dimensional liquid chromatography of complex polymer systems.)*

Zodpovedný riešiteľ:	Dušan Berek
Trvanie projektu:	1.1.2012 / 31.12.2014
Evidenčné číslo projektu:	2/0001/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 4 674 €

Dosiahnuté výsledky:

Návrh a aplikácia originálnej dvojdimenzionálnej metódy posúdenia vzorkovej výťažnosti kvapalinovej chromatografie pri kritických podmienkach entalpických interakcií, LC CC. Ukázalo sa, že v modelovom systéme, na ktorý sa metóda aplikovala, je výťažnosť nízka a spôsobuje významnú chybu v stanovení mólovej hmotnosti polyméru. Výsledok možno generalizovať s vysokou dávkou istoty, hoci je zrejmé, že skutočná výťažnosť sa bude od systému k systému líšiť. Pochopiteľne, závery prezentované na dvoch konferenciách a odoslané na publikovanie vzbudili negatívnu reakciu niektorých používateľov LC CC, pretože ukázal významné obmedzenia metódy. Výsledok je podkladom odoslanej publikácie.
Podobný postup sa využil na posúdenie vzorkovej výťažnosti našej metódy kvapalinovej chromatografie pri limitných podmienkach desorpcie, LC LCD. Ukázalo sa, že výťažnosť LC LCD je vyššia ako výťažnosť LC CC ale tiež nie je úplná. Tieto práce sú pred dokončením.
Metóda LC LCD sa využila na separáciu materských homopolymérov z rôznych blokových kopolymérov (Marseille, F, Santa Fe, Argentína, Donostia-San Sebastian, ES a aj Ústav polymérov SAV). Dôležitá je hlavne úspešná separácia blokového kopolyméru poly(butylén adipát/tereftalát)-b-PLA z Marseille. Tento výsledok presvedčil francúzskych partnerov, aby zaviedli našu metódu LC LCD vrátane jej preparatívnej formy na svojom pracovisku.

Výstupy:

1. ŠIŠKOVÁ, Alena - MACOVÁ, Eva - BEREK, Dušan. Liquid chromatography under limiting conditions of desorption 4 separation of blends containing low-solubility polymers. In European Polymer Journal, 2012, vol. 48, p. 155 - 168. (2.739 - IF2011). (2012 - Current Contents). ISSN 0014-3057.

3.) Simulácie skladania a agregácie polypeptidov. *(Simulations of folding and aggregation in polypetides.)*

Zodpovedný riešiteľ:	Tomáš Bleha
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/0079/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 4 090 €

Dosiahnuté výsledky:

Pri modelovaní štruktúry helikálnych polymérov typu polypeptidov v plynnej fáze sa zistilo, že

závitnice pretrvávajú v plynnej fáze aj pri pomerne vysokých teplotách. Ukazuje sa, že závitnice sú v plynnej fáze stabilnejšie ako v roztoku a platí to aj pre ostatné tzv. sekundárne štruktúry. Navzdory predpokladom, polypeptidy pri vyšších teplotách v plyne netvoria náhodné klbká, ale kompaktnejšie globulárne štruktúry, čo potvrdili aj škálovacie výnosy rozmerov reťazcov v závislosti od ich dĺžky.

Výstupy:

1. PALENČÁR, Peter – BLEHA, Tomáš. Folding of ?-helices into bundles in long polyalanines. Computational and Theoretical Chemistry, accepted, DOI: 10.1016/j.comptc.2012.11.012

4.) Netradičné kompozitné nanočastice, nanomateriály a nanokonjugáty: Príprava a kolektívne vlastnosti. *(Nontraditional composite nanoparticle, nanomaterials and nanoconjugates: Preparation and collective properties.)*

Zodpovedný riešiteľ:	Ignác Capek
Trvanie projektu:	1.1.2010 / 31.12.2013
Evidenčné číslo projektu:	2/0037/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3 653 €

Dosiahnuté výsledky:

Závislosť rýchlosti polymerizácie od konverzie je popísaná krivkou s dvomi – tromi rýchlostnými intervalmi a maximálna rýchlosť polymerizácie (Rpmax) je lokalizovaná v oblasti stredných konverzií (20-30%). Získané výsledky sú typické pre transparentnú heterogénnu, resp. mikroemulznú polymerizáciu. Asociáty polyAAm, AAm a emulgátora vystupujú v úlohe nanočastíc resp. radikálových centier polymerizácie. Variácia rýchlosti polymerizácie s konverziou a koncentráciou emulgátora a monoméru je výsledkom polymerizácie AAm v polymérových nanočasticiach (cca. pod 20 nm). Rpmax klesá so vzrastom koncentrácie emulgátora a pokles je výraznejší s hydrofilným emulgátorom. Pokles rýchlosti polymerizácie so vzrastom počtu nanočastíc je neočakávaný a poukazuje na osobitý charakter nanočasticovej povahy polymerizácie.

Výstupy:

1. CAPEK, Ignác – KOCSISOVÁ, Teodora. Micellar aqueous phase polymerization of acrylamide. In Designed Monomers and Polymers. Vol. 14, (2011), p. 327–345.

5.) Štrukturálne prechody stiesnených semiflexibilných makromolekúl. *(Structural transitions of confined semi-flexible macromolecules.)*

Zodpovedný riešiteľ:	Peter Cifra
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/0093/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6 427 €

Dosiahnuté výsledky:

Porozumenie mechanizmu vystierania makromolekúl DNA v nanokanáloch je nevyhnutné pre interpretáciu experimentov v nanofluidných prístrojoch používaných pri analýze genomických makromolekúl, ktoré sa začínajú v súčasnosti využívať nielen pre lineárne, ale aj pre cyklické DNA. Analyzovali sme experimentálne výsledky a simulácie pre kanálmi indukované vystieranie (linearizáciu) oboch topológií. Obmedzenie DNA reťazcov ich uzavretím do cyklu alebo ich geometrickým obmedzením je časté vo viacerých biologických procesoch. Výsledky simulácií stesnaných cyklov ukazujú, že tak ako pre lineárne makromolekuly aj tu existuje podobný prechod medzi miernym a silným obmedzovaním. Kvôli silnejšiemu efektu vylúčeného objemu v stesnaných cykloch je tento prechod a miera relatívneho predĺženia oproti lineárnym makromolekulám posunutá. Navrhli a otestovali sme pre cirkulárne DNA podobný vzťah ako je používaný v experimentoch s vystieraním lineárnych reťazcov. Pre lineárne DNA v kanáloch sme pozorovali relatívne stabilné zreteľné udalosti charakteristické pre skladanie tuhších reťazcov, ktoré komplikujú linearizačné experimenty. Analýza týchto udalostí ako funkcie šírky kanálu ukázala, že zastúpenie tohoto skladania je výraznejšie na koncoch ako vo vnútri kanálom uväzneného reťazca.

Výstupy:

1. BENKOVÁ, Zuzana - CIFRA, Peter. Simulation of semiflexible cyclic and linear chains moderately andstrongly confined in nanochannels. In Macromolecules, 2012, vol. 45, p. 2597-2608. (5.167 - IF2011).

2. CIFRA, Peter - BLEHA, Tomáš. Detection of chain backfolding in simulation of DNA in nanofluidic channels. In SOFT MATTER, 2012, vol. 8, p. 9022-9028. (4.390 - IF2011).

6.) Materiály šité na mieru pripravené živou radikálovou polymerizáciou, sieťovaním a očkovaním. *(Tailor-made materials prepared by living free radical polymerization, crosslinking and grafting.)*

Zodpovedný riešiteľ:	Štefan Chmela
Trvanie projektu:	1.1.2011 / 31.12.2013
Evidenčné číslo projektu:	2/0072/11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6 953 €

Dosiahnuté výsledky:

Vychádzajúc z (±)-10-gáforsulfónovej kyseliny v siedmich krokoch popísaných pre enantiomér, alebo novou kratšou cestou v piatich stuňoch, sa pripravil východzí monomér (±)-10-metakryloyloxygáforchinón (MCQ). MCQ sa kopolymerizoval so styrénom (S) a porovnali sa fotochemické vlastnosti pripraveného kopolyméru (MCQ/S) s vlastnosťami skôr študovaných kopolymérov styrénu s monomérmi obsahujúcimi štruktúry benzilu (BZ) (iná zlúčenina obsahujúca 1,2-dikarbonylové zoskúpenie). Ožarovanie (? > 380 nm) filmu styrénového kopolyméru s monomérmi obsahujúcimi štruktúry BZ v prítomnosti vzdušného kyslíka vedie k inzercii dvoch kyslíkových atómov medzi karbonylové skupiny BZ a k tvorbe štruktúry benzoyl peroxidu (BP) kovalentne pripojené k hlavnému reťazcu. Rovnaké ožarovanie MCQ/S vedie hlavne k inzercii len jedného kyslíkového atómu medzi karbonylové skupiny gáforchinónu (CQ) a k tvorbe gáfrového anhydridu kovalentne naviazaného na polymérny reťazec. Zatiaľ čo rozklad bočných BP skupín vytvorených v ožarovanom filme styrénového kopolyméru obsahujúceho BZ vedie k sieťovaniu, len malé zmeny molekulových hmotností sa pozorovali v ožarovanom MCQ/S.

Dvojfunkčná fluorescenčná značka pyrén-benzotioxantón /Py-BTX/ sa použila ako regulátor pre NMP. Pomocou fluorescenčnej spektroskopie sa charakterizoval rozsah vnútromolekulového

prenosu energie singletného stavu z pyrénu - Py na benzotioxantón – BTX. V prípade regulátora Py-BTX nastáva úplný prenos energie z Py na BTX. Pre značené polystyrény, pripravené v prítomnosti uvedeného regulátora, kde pyrén je na začiatku polystyrénového reťazca a BTX tvorí koniec reťazca sa prenos elektronickej energie postupne zmenšuje v dôsledku zvyšovania vzdialenosti medzi donorom a akceptorom.

Výstupy:

1. HUSÁR, Branislav - MOSZNER, N. - LUKÁČ, Ivan. Synthesis and photooxidation of styrene copolymer bearing comphorquinone pendant groups. In Beilstein Journal of Organic Chemistry, 2012, vol. 8, p. 337 - 343. (2.517 - IF2011). ISSN 1860-5397.

2. HRČKOVÁ, Ľudmila - CHMELA, Štefan - KOLLÁR, Jozef. Nitroxidmi regulovaná radikálová polymerizácia. In Sborník příspěvku konference PLASTKO 2012: Zlín - ČR, 11. - 12. 4. 2012 [elektronický zdroj]. 1. vyd. - Zlín, ČR : Univerzita Tomáše Bati, 2012, p. [327]. ISBN 978-80-7454-137-7.

3. KOLLÁR, Jozef – CHMELA, Štefan – HRČKOVÁ, Ľudmila – HRDLOVIČ, Pavol. Fluorescent Dye-Labelled Polymer Synthesis by Nitroxide Mediated Radical Polymerization. 4nd Bratislava Young Polymer Scientists workshop, BYPoS 2012, Liptovský Ján, 1.-5.10. 2012, cl-1-8 str. 43.

4. KOLLÁR, Jozef – CHMELA, Štefan – HRČKOVÁ, Ľudmila – HRDLOVIČ, Pavol: TIPNO type fluorescent dye-labelled regulators for nitroxide mediated radical polymerization. Zborník VII. Slovensko-česká konferencia Polyméry 2012, KC Smolenice, 26.-29.11.2012,, výveska P07, str. 69.

5. LUKÁČ, Ivan – KÓSA, Csaba – HUSÁR, Branislav: Rozklad benzoylperoxidu v aromatických polyméroch. Zborník VII. Slovensko-česká konferencia Polyméry 2012, KC Smolenice, 26.-29.11.2012, výveska P12, str. 77.

6. KOLLÁR, Jozef - CHMELA, Štefan - HRČKOVÁ, Ľudmila - HRDLOVIČ, Pavol. Fluorescent dye-labelled polymer synthesis by nitroxide mediated radical polymerization. In AIP Conference Proceedings: 6th International Conference on Times of Polymers (TOP) and Composites: Ischia, Italy, 10 - 14 June 2012, 2012, vol. 1459, p. 187 - 189. ISSN 0094-243X.

7.) Viacfázové polymérne sústavy so špeciálnymi vlastnosťami. *(Multiphase polymeric systems with special properties.)*

Zodpovedný riešiteľ:	Ivan Chodák
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0185/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 14 023 €

Dosiahnuté výsledky:

Získali sa poznatky o koreláciách elektrických a mechanických vlastností elektrovodivých polymérnych kompozitov. Vyvinuté postupy modifikácie povrchu plastov plazmou, umožňujúce povrchové očkovanie antibakteriálnych látok, sa aplikovali na niekoľko rozličných zlúčenín s antibakteriálnym účinkom.

Výstupy:

1. POPELKA, Anton - NOVÁK, Igor - LEHOCKÝ, M. - CHODÁK, Ivan - SEDLIAČIK, J. - GAJTANSKA, M. - SEDLIAČIKOVÁ, M. - VESEL, A. - JUNKAR, I. - KLEINOVÁ, Angela - ŠPÍRKOVÁ, M. - BÍLEK, F. Anti-bacterial treatment of polyethylene by cold plasma for medical purposes. In Molecules, 2012, vol. 17, p. 762 - 785. (2.386 - IF2011). ISSN 1420-3049.

2. HRACHOVÁ, J. - KOMADEL, P. - JANIGOVÁ, Ivica - ŠLOUF, M. - CHODÁK, Ivan. Properties of

rubber filled with montmorillonite with various surface modifications. In Polymers for Advanced Technologies, 2012, vol. 23, p. 1414 - 1421. (2.007 - IF2011). ISSN 1042-7147.

3. PORUBSKÁ, M. - SZOLOS, O. - KÓŇOVÁ, A. - JANIGOVÁ, Ivica - JAŠKOVÁ, M. - JOMOVÁ, Kl. - CHODÁK, Ivan. FTIR spectroscopy study of polyamide-6 irradiated by electron and proton beams. In Polymer Degradation and Stability, 2012, vol. 97, p. 523 - 531. (2.769 - IF2011). ISSN 0141-3910.

4. CHODÁK, Ivan - KRAJČI, Juraj. Electrical conductivity of composites as a tool for investigation of reinforcing filler physical network. In Polymeric Materials 2012: Halle (Saale), Germany, 12.-14. September 2012: abstracts. - Halle: Martin Luther University Halle - Wittenberg, 2012, p. 69. ISBN 978-3-86829-517-7. Pozvaná prednáška.

8.) Vymedzenie podmienok degradácie najmenej stabilných polymérov používaných v umeleckých artefaktoch vplyvom svetla, tepla a za prístupu vlhkosti a kyslíka. *(Specification of degradation conditions for the least stable polymers used in the museum artefacts and the effect of light, heat, humidity and oxygen.)*

Zodpovedný riešiteľ:	Ivica Janigová
Trvanie projektu:	1.1.2012 / 31.12.2014
Evidenčné číslo projektu:	1/0147/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6 778 €

Dosiahnuté výsledky:

Z DSC a TG meraní (inertná atmosféra) termickej degradácie acetátu celulózy degradovaného počas jedného roku pri teplote 70°C nevykázala rozdiely s rastúcim časom degradácie. V prostredí kyslíka vzorky vykázali trojstupňový rozklad s posunom píkov rozkladu smerom k nižším teplotám v závislosti od rastúceho času degradácie.

Výstupy:

1. HRABÁROVÁ, E. - RYCHLÝ, Jozef - SASINKOVÁ, V. - VALACHOVÁ, K - JANIGOVÁ, Ivica - CSOMOROVÁ, Katarína - JURÁNEK, I. – ŠOLTÉS, L. Structural characterisation of thiol-modified hyaluronans. In Cellulose. 2012, vol. 19, p.2093–2104, (3.600 - IF2011). ISSN 0969-0239.

2. RYCHLÁ, Lyda - EBRINGEROVÁ, A. - CSOMOROVÁ, Katarína - JANIGOVÁ, Ivica – RYCHLÝ, Jozef. Termická a termooxidačná stabilita lignínov a ich zmesí s celulózou. Zborník VII. Slovensko-Českej konferencie POLYMÉRY 2012, Smolenice, 26. -29.11. 2012, L7 str. 18-19. ISBN 978-970923-0-6.

9.) Zwitteriónové polyméry: od kinetiky ku tenkým vrstvám a hydrogélom pre biomedicínu. *(Zwitterion polymers: from kinetics to thin layers a hydrogels for biomedicine.)*

Zodpovedný riešiteľ:	Peter Kasák
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0152/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6 619 €

Dosiahnuté výsledky:

Bol pripravený fotoprepínateľný polymér katiónového charakteru obsahujúci o-nitrobenzylovú jednotku. Pripravený polymér je schopný sa po fotolýze pri 365 nm meniť z katiónového na zwitteriónový, karboxybetaínový polymér. Výhodnosť tejto transformácie bola demonštrovaná pri cielenej komplexácii a dekomplexácii DNA a taktiež pri zmene antimikrobiálneho charakteru, na povrchu a v roztoku, na netoxický charakter.

Výstupy:

1. SOBOLČIAK, Patrik - MRLÍK, M. - PAVLÍNEK, V. - LACÍK, Igor - KASÁK, Peter. Light tunable materials for controlled adhesion and release biomacromolecules. In Abstract book of the 1st International Conference on Biological and Biomimetic Adhesives: Lisbon, Portugal, 9-11 May 2012. - Lisbon: University of Lisbon, 2012, p. 42.

10.) Modifikované polymérne povrchy pre využitie v biomedicíne. *(Modified polymer surfaces for biomedical application.)*

Zodpovedný riešiteľ:	Juraj Kronek
Trvanie projektu:	1.1.2012 / 31.12.2014
Evidenčné číslo projektu:	2/0151/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9 815 €

Dosiahnuté výsledky:

V prvom roku riešenia projektu sa pripravili nové monoméry obsahujúce dvojitú väzbu a 4,5-dihydrooxazolovú skupinu a otestovala sa ich schopnosť poskytovať radikálové polymerizácie. Navyše sa potvrdilo, že pripravené polyméry sú netoxické a možno ich použiť v bioaplikáciách.

Výstupy:

1. MIKULEC, Marcel - LUSTOŇ, Jozef - KRONEK, Juraj. Polymers and copolymers based on unsaturated 2-oxazolines by free-radical polymerization. In Polymers 2012: XVII national symposium open to international participation : Ribaritsa - Bulgaria, May 31 - June 2, 2012: book of abstracts. - Sofia - Bulgaria: Institute of Polymers Bulgarian Academy of Sciences, 2012, p. 56.

11.) Hydrogély modifikované peptidmi pre zlepšenie imunologickej ochrany enkapsulovaných buniek. *(Hydrogels modified by peptides for improvement of immunological protection of encapsulated cells.)*

Zodpovedný riešiteľ:	Andrea Mihálová
Trvanie projektu:	1.1.2012 / 31.12.2014
Evidenčné číslo projektu:	2/0163/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 4 633 €

Dosiahnuté výsledky:

Fmoc syntézou na pevnom podklade boli úspešne pripravené dva typy afinitných peptidov, MCP-1 a RGD afinitný peptid. MCP-1 afinitný peptid bol inkorporovaný do PEGDA hydrogélov pomocou fotopolymerizácie. Pomocou ELISA eseje sa sledovalo uvoľňovanie in situ viazaného

MCP-1 proteínu z hydrogélu modifikovného a nemodifikovaného afinitným peptidom. Preukázalo sa znížené uvoľňovanie MCP-1 proteínu z modifikovaných PEGDA hydrogélov. RGD afinitný peptid bol použitý na modifikáciu alginátu sódneho, ktorý sa použil na prípravu mikrokapsúl. Modifikácia alginátu afinitným peptidom viedla k čiastočnému zníženiu mechanických vlastností mikrokapsúl. ELISA analýza uvoľňovania IL1 proteínu enkapsulovaného in situ v mikrokapsuliach však preukázala zníženie jeho vylučovania z modifikovaných kapsúl v porovnaní s nemodifikovanými.

Výstupy:

1. MIHÁLOVÁ, Andrea - LAHOVÁ, M. - BEKEŠOVÁ, S. - ŠKULTÉTY, Ľ. - PROKS, V. - KUČKA, J. - LACÍK, Igor. Peptide-functionalized hydrogels for enhancing biocompatibility of encapsulating materials. In Polymers in Medicine: pmm - 76th Prague Meeting on Macromolecules: Prague, Czech Republic, 1 - 5 July 2012: book of abstracts. - Prague, Czech Republic: Institute of Macromolecular Chemistry AS CR, 2012, p. 101. ISBN 978-80-85009-72-9.

12.) Fotosenzitívne degradovateľné polymérne materiály. *(Photosensitive biodegradable polymer materials.)*

Zodpovedný riešiteľ:	Jaroslav Mosnáček
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0074/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 17 139 €

Dosiahnuté výsledky:

Pokračovalo sa vo výskume fotodegradácie biodegradovateľného a biokompatibilného poly(-kaprolaktónu) (PCL) a polylaktidu (PLA) dopovaného fotoaktívnym benzilom (BZ). Sledoval sa najmä vplyv koncentrácie BZ na molekulové charakteristiky polymérov po ožarovaní, ale aj vplyv na následnú rýchlosť degradácie (hydrolýzy) polymérov. Vyhodnotil sa rozdiel medzi poly(L-laktidom a poly(D,L-laktidom). Uskutočnila sa príprava PLA s viazaným benzilom na reťazci.

Výstupy:

1. BRZEZINSKI, M. - BOGUSLAWSKA, M. - ILČÍKOVÁ, Markéta - MOSNÁČEK, Jaroslav - BIELA, T. Unusual thermal properties of polylactides and polylactide stereocomplexes containing polylactide-functionalized multi-walled carbon nanotubes. In Macromolecules, 2012, vol. 45, p. 8714 - 8721. (5.167 - IF2011).

2. BUJDÁK, J. - DANKO, Martin - CHORVÁT, D. Jr. - CZÍMEROVÁ, A. - SÝKORA, J. - LANG, K. Selective modification of layered silicate nanoparticle edges with fluorophores. In Applied Clay Science, 2012, vol. 65-66, p. 152 - 157. (2.474 - IF2011).

3. DANKO, Martin - BUREŠ, F. - KULHÁNEK, J. - HRDLOVIČ, Pavol. Spectral properties of Y-shaped donor-acceptor push-pull imidazole-based fluorophores: comparison between solution and polymer matrices. In Journal of Fluorescence, 2012, vol. 22, p. 1165 - 1176. (2.107 - IF2011).

4. KÓSA, Csaba - DANKO, Martin - HRDLOVIČ, Pavol. Preparation and spectral characterization of fluorescence probes based on 4-N,N-dimethylamino benzoic acid and sterically hindered amines. In Journal of Fluorescence, 2012, vol. 22, no.5, p. 1371 - 1381. (2.107 - IF2011).

13.) Elektricky vodivé polymérne nanokompozity s modifikovanými plnivami. *(Electrically conductive polymeric nanocomposites with modified fillers.)*

Zodpovedný riešiteľ:	Mária Omastová

Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0064/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 11 920 €

Dosiahnuté výsledky:

Nevyhnutnou podmienkou prípravy nanokompozitov s CNT a polypyrolom je dobrá dispergácia plnív v polymérnych matriciach, nakoľko len v takom prípade dôjde k optimálnemu využitiu výnimočných vlastností plniva. To sa dosiahne modifikáciou povrchu mnohostenných alebo jednostenných CNT preferenčne funkcionalizáciou tenzidmi. Modifikované CNT sa pridávali do polypropylénu, pričom sa skúmal vplyv koncentrácie plniva a povrchovej úpravy na výsledné fyzikálne vlastnosti nanokompozitov.

Skúmali sa elektrická vodivosť a dielektrické vlastnosti elektricky vodivých ternárnych nanokompozitov polypropylén/montmorillonit/polypyrol (PP/MMT/PPy) s cieľom preveriť ich účinnosť tienenia v širokej oblasti frekvencií. Získané výsledky ukazujú, že účinnosť tienenia ternárnych PP/MMT/PPy nanokompozitov je dvakrát vyššia ako u binárnych kompozitov polypropylén/polypyrol. Zmeny v štruktúre MMT po polymerizácii pyrolu, najmä čiastočná exfoliácia MMT častíc, boli dokumentované štúdiom ich morfológie a metódou WAXS. Hlavnou výhodou vyvinutého materiálu je jednoduchosť technológie jeho prípravy a veľmi dobré tieniace schopnosti, ktoré môžu byť využité pri príprave materiálov pre mikrovlnné absorbéry.

Výstupy:

1. OMASTOVÁ, Mária - MIČUŠÍK, Matej. Polypyrrole coating of inorganic and organic materials by chemical oxidative polymerisation. In Chemical Papers, 2012, vol. 66, no. 5, p. 392-414. (1.096- IF2011). ISSN 0366-6352

2. VILČÁKOVÁ, J. – MOUČKA, R. – SVOBODA, P. – ILČÍKOVÁ, Markéta – KAZANTSEVA, N. – HRÍBOVÁ, M. – MIČUŠÍK, Matej - OMASTOVÁ, Mária. Effects of surfactants on the dispersive ability, electrical properties and thermal conductivity of carbon nanotube/silicone nanocomposites. In Molecules. 2012, vol. 17, p. 13 157–13 174. (2.386 - IF2011). ISSN 1420-3049.

3. EREN, E. - CELIK, G. - UYGUN, A. - TABAČIAROVÁ, Jana - OMASTOVÁ, Mária. Synthesis of poly(3,4-ethylenedioxythiophene)/titanium dioxide nanocomposites in the presence of surfactants and their properties. In Synthetic Metals, 2012, vol. 162, p. 1451-1458. (1.829 - IF2011). ISSN 0379-6779.

14.) Mechanizmus a kinetika radikálovej polymerizácie vo vodnej fáze: rýchlostné konštanty propagácie pre katiónové monoméry. *(Mechanism and kinetics of radical polymerization in aqueous phase: rate constants of propagation for cationic monomers.)*

Zodpovedný riešiteľ:	Marek Stach
Trvanie projektu:	1.1.2012 / 31.12.2014
Evidenčné číslo projektu:	2/0160/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 4 635 €

Dosiahnuté výsledky:

V oblasti určovania individuálnych rýchlostných konštánt radikálovej polymerizácie

vodorozpustných monomérov vo vodnej fáze bola úspešne implementovaná SEC metóda na stanovenie absolútnych mólových hmotností pre kopolyméry s využitím MALLS detekcie. Ďalším významným výstupom bolo určenie SEC podmienok pre charakterizáciu katiónových polymérov, čo umožňuje stanoviť rýchlostné konštanty propagácie pre túto skupinu monomérov.

Výstupy:

1. SANTANAKRISHNAN, S. - STACH, Marek - LACÍK, Igor - HUTCHINSON, R. A. Aqueous-phase copolymerization of N-vinylpyrrolidone and N-vinylformamide. In Macromolecular Chemistry and Physics, 2012, vol. 213, p. 1330 - 1338. (2.361 - IF2011).

15.) Grafénové polymérne nanokompozity pre environmentálne monitorovanie. *(Graphene containing polymer nanocomposites for environmental monitoring.)*

Zodpovedný riešiteľ:	Zdenko Špitálsky
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/0119/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 14 802 €

Dosiahnuté výsledky:

Pripravila sa séria kompozitov, ktoré boli testované na senzoriku na motorový olej s veľmi rýchlou odozvou.

Výstupy:

Zaslaný prvý draft do Sensor and Actuators B.

Programy: APVV

16.) Imobilizačné techniky pre prípravu biokatalyzátorov na priemyselnú produkciu prírodných aróm. *(Immobilization techniques for preparation of biocatalysts for industrial production of of natural flavours.)*

Zodpovedný riešiteľ:	Marek Bučko
Zodpovedný riešiteľ v organizácii SAV:	Igor Lacík
Trvanie projektu:	1.5.2011 / 31.10.2014
Evidenčné číslo projektu:	APVV-0302-10
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 7761 €

Dosiahnuté výsledky:

Mikrokapsule pripravené na našom oddelení sa ukazujú ako výhodné modelové materiály pre imobilizáciu v biotechnologických aplikáciách využívajúcich cielenú oxidáciu substrátov prostredníctvom monooxygenáz v imobilizovaných E.coli baktériách.

Výstupy:

1. SCHENKMAYEROVÁ, A. - BUČKO, M. - GEMEINER, P. - CHORVÁT, D. Jr. - LACÍK, Igor. Viability of free and encapsulated Escherichia coli overexpressing cyclopentanone monooxygenase monitored during model Bayer-Villiger biooxidation by confocal laser scanning microscopy. In Biotechnology Letters, 2012, vol. 34, p. 309-314. (1.683 - IF2011).

2. BUČKO, M. - MISLOVIČOVÁ, D. - NAHÁLKA, J. - VIKARTOVSKÁ, A. - ŠEFČOVIČOVÁ, J. - KATRLÍK, J. - TKÁČ, J. - GEMEINER, P. - LACÍK, Igor - ŠTEFUCA, V. - POLAKOVIČ, M. - ROSENBERG, M. - REBROŠ, M. - ŠMOGROVIČOVÁ, D. - ŠVITEL, J. Immobilization in biotechnology and biorecognition: from macro- to nanoscale systems. In Chemical Papers, 2012, vol. 66, no. 11, p. 983-998.

17.) Fotoaktívne hybridné nanomateriály s luminiscenčnými a antimikrobiálnymi vlastnosťami. *(Photoactive hybrid nanomaterialswith luminescent and antimicrobial properties.)*

Zodpovedný riešiteľ:	Juraj Bujdák
Zodpovedný riešiteľ v organizácii SAV:	Martin Danko
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0291-11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 6 810.00 €

Dosiahnuté výsledky:

Uskutočnil sa výber vhodných organických farbív, pripravil sa derivát rhodamínu B s funkčnými alkylsilánovými skupinami. Spravila sa rešerš na modifikáciu polyetylénoxidu farbičkami na koncoch reťazca.

18.) Biodekorované kompozitné magnetické nanočastice: Príprava, kolektívne vlastnosti a ich aplikácie. *(Biodecorated composite magnetic nanoparticles: Preparation, collective properties and applications.)*

Zodpovedný riešiteľ:	Ignác Capek
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0125-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 15 088 €

Dosiahnuté výsledky:

V rámci APVV projektu sme sledovali nízkouhlovým rozptylom X-lúčov (GISAXS) usporiadavanie kovových nanočastíc do 3D útvarov Langmuirovou „layer-by-layer“ depozíciou a aj spontánnym samo-usporiadavaním. Zistili sme, že najusporiadanejšie Ag 3D štruktúry sa pripravili spontánnym odparením rozpúšťadla z roztoku Ag nanočastíc. Naopak, nanočastice FeO vytvárajú usporiadané 3D štruktúry opakovanou LS (layer-by-layer) depozíciou. Nanočastice striebra a oxidu železa sme pripravili redukciou soli striebra a acetylacetonátu železa pri vysokých teplotách v prítomnosti zmesného stabilizačného systému. Porovnaním výsledkov GISAXu s modelom viedlo k záverom, že samovoľné odparovanie rozpúšťadla vedie k vysoko usporiadanej

3D štruktúre nanočastíc s vertikálne a priečne usporiadanými nanočasticami zatiaľ čo LS metóda viedla len k tvorbe 3D štruktúr bez vertikálneho usporiadavanie nanočastíc.

Výstupy:

1. VÉGSO, K. - ŠIFFALOVIČ, P. - BENKOVIČOVÁ, M. - JERGEL, M. - LUBY, Š. - MAJKOVÁ, E. - CAPEK, Ignác - KOCSIS, T. - PERLICH, J. - ROTH, S.V. GISAXS analysis of 3D nanoparticle assemblies- effect of vertical nanoparticle ordering. In Nanotechnology, 2012, vol. 23, no. 4, 045704. (3.979 - IF2011).

2. CAPEK, Ignác - HLOUŠKOVÁ, Zuzana - CAPEK, P. - CIGÁŇ, A. Biodecorated magnetic nanoparticles in therapeutics. The 1st International Conference on Nanomaterials: Fundamentals and Applications, October 03-06, 2012, Strbske pleso, V, Book of Abstract, p. 54.

19.) Nanoštruktúra v makromolekulových systémoch indukovaná stesnaním. *(Nanostructure in macromolecular systems induced by confinement.)*

Zodpovedný riešiteľ:	Peter Cifra
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0451-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 15 178 €

Dosiahnuté výsledky:

Pozorovanie, že DNA makromolekuly v schránkach bakteriofágov tvoria preferenčne toroidálne typy uzlov poskytlo citlivú možnosť vyhodnotiť rôzne modely pri usporiadavaní DNA v hlavičkách fágov. Ako blízke realite bolo možné zvažovať len modely poskytujúce prevahu toroidálnych uzlov. Súčasné štúdie ukázali, že experimentálne pozorované obohatenie torodidálnymi uzlami môže byť kvalitatívne reprodukované simuláciami, ktoré zahrňujú nematické usporiadanie zhustených DNA reťazcov v schránke fágov. My sme vyšetrovali, ktoré aspekty nematického usporiadania sú kľúčové pre tvorbu toroidálnych uzlov. Naše výsledky ukazujú, že tuhosť DNA a jej efektívne stužovanie spôsobené nematickým usporiadaním nielen zvyšuje zastúpenie uzlov, ale je aj rozhodujúcim faktorom pre tvorbu práve toroidálnych DNA uzlov v schránkach fágov.

Výstupy:

1. REITH, D. - CIFRA, Peter - STASIAK, A. - VIRNAU, P. Effective stiffening of DNA due to nematic ordering causes DNA molecules packed in phage capsids to preferentially form torus knots. In Nucleic Acids Research, 2012, vol. 22, p. 1-9. (8.026 - IF2011).

20.) Využitie biofonických nanotechnológií k štúdiu mechanizmov bunkovej smrti s cieľom zvýšenia citlivosti detekcie a selektivity liečby nádorov. *(Towards increased sensitivity of cancer detection and selectivity of cancer treatment: biophotonic nanotechnology applications.)*

Zodpovedný riešiteľ:	Peter Kasák
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0242-11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prírodovedecká fakulta UPJŠ Košice
Počet spoluriešiteľských inštitúcií:	0

Čerpané financie: APVV: 3598 €

Dosiahnuté výsledky:

Bola rozpracovaná metóda pre inkorporáciu dextránového derivátu do LDL častice a charakterizácia dex/LDL nanočastíc s rôznymi dĺžkami a derivátmi dextránovej jednotky a s rôznymi pomermi PEG/LDL. Boli pripravené dex/LDL nanočastice, do ktorých sa inkorporoval fotosenzibilizátor hypericín (Hyp) využívaný vo fotodynamickej terapii v liečbe rakoviny. Nastavením podmienok prípravy Hyp/dex/LDL komplexu sa podarilo znížiť rýchlosť redistribúcie Hyp z komplexu Hyp/dex/LDL do ďalších LDL častíc, čo je dôležitým faktorom pre zvýšenie účinku Hyp v nádorových bunkách.

Výstupy:

1. HUNTOŠOVÁ, V. - BUZOVA, D. - PETROVAJOVA, D. - KASÁK, Peter - NADOVA, Z. - JANČURA, D. - SUREAU, F. - MIŠKOVSKÝ, P. Development of a new LDL-based transport system for hydrophobic/amphiphilic drug delivery to cancer cells. In International Journal of Pharmaceutics, 2012, vol. 436, p. 463 - 471. (3.350 - IF2011).

21.) Organoíly a ich kompozity s polymérmi. *(Organoclay and their polymer composites.)*

Zodpovedný riešiteľ:	Peter Komadel
Zodpovedný riešiteľ v organizácii SAV:	Ivan Chodák
Trvanie projektu:	1.5.2011 / 30.10.2014
Evidenčné číslo projektu:	APVV-0362-10
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav anorganickej chémie SAV Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 29308 €

Dosiahnuté výsledky:

Syntetizovali sa niektoré látky vhodné na modifikáciu organoílov tak, aby výsledné nanoplnivá zodpovedali parametrom pre konkrétne plasty. Materiály sa charakterizovali okrem štandardných metód (TEM, XRD) aj metódou reológie. Pripravili sa kompozity jednak s komerčným montmorilonitom pre porovnanie a jednak s nami syntetizovanými MMT, zamiešaním do viacerých polymérnych matríc a stanovili sa mechanické vlastnosti.

Výstupy:

1. CHODÁK, Ivan - JOCHEC MOŠKOVÁ, Daniela. Clay nanocomposites with polymeric matrices - successes and disappointments. In PHYSICS OF MATERIALS 2012- Proceedings of the scientific conference, October 17-19, 2012, Košice. P. 16-20. - Košice : Technical University of Košice, 2012. ISBN 978-80-553-1175-3. Prednáška

22.) Progresívne polymérne technológie v biomedicíne: Polymérne mikrokapsule pre imunitnú ochranu transplantovaných pankreatických ostrovčekov v liečbe cukrovky. *(Advanced polymer technologies in biomedicine: Polymer microcapsules for immunoprotection of transplanted pancreatic islets in diabetes treatment.)*

Zodpovedný riešiteľ:	Igor Lacík
Trvanie projektu:	1.5.2011 / 31.10.2014
Evidenčné číslo projektu:	APVV-0486-10
Organizácia je koordinátorom projektu:	áno

Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	8 - Nórsko: 3, Slovensko: 2, USA: 3
Čerpané financie:	APVV: 42 320 €

Dosiahnuté výsledky:

Boli navrhnuté post-enkapsulačné modifikácie mikrokapsúl pripravených polyelektrolytovou komplexáciou s cieľom vytvorenia kovalentných väzieb a posilňujúcich polyelektrolytový komplex a tiež vytvorenia biokompatibilnej vrstvy na povrchu mikrokapsúl. Mikroakpsule boli charakterizované z pohľadu fyzikálno-chemických vlastností a v prepojení na EASD projekt boli tieto modifikované mikrokapsule použité v in vivo podmienkach v predbežných experimentoch v laboratórnych potkanoch. Aj keď testy v kompletnej ľudskej krvi poukázali na rozdiel v pripravených mikrokapsulách, in vivo experimenty tieto rozdiely nepreukázali. Tento APVV projekt sa rieši v nadväznaosti na Chicago Diabetes Project.

Výstupy:

1. QI, M. - MORCH, Y. - LACÍK, Igor - FORMO, K. - MARCHESE, E. - WANG, Y. - DANIELSON, K. J. - KINZER, K. - WANG, S. - BARBARO, B. - KOLLÁRIKOVÁ, Gabriela - CHORVÁT, Dušan Jr. - HUNKELER, D. - SKJAK-BRAEK, G. - OBERHOLZER, J. - STRAND, B. L. Survival of human islets in microbeads containing high guluronic acid alginate crosslinked with Ca2+ and Ba2+. In Xenotransplantation, 2012, vol. 19, p. 355 - 364. (2.326 - IF2011).

2. MORCH, Y. A. - QI, M. - GUNDERSEN, P. O. M. - FORMO, K. - LACÍK, Igor - SKJAK-BRAEK, G. - OBERHOLZER, J. - STRAND, B. L. Binding and leakage of barium in alginate microbeads. In Journal of Biomedical Materials Research : Part A, 2012, vol. 100A, p. 2939-2947. (2.625 - IF2011).

3. ROKSTAD, A. M. - BREKKE, O. L. - STEINKJER, B. - RYAN, L. - KOLLÁRIKOVÁ, Gabriela - LAMBRIS, J. D. - LACÍK, Igor - MOLLNES, T.E. – ESPEVIK, T. Poly-cation containing alginate microcapsules induce cytokines by a complement-dependent mechanism. In Immunobiology. Vol. 217, 2012, p. 1221. (3.205 - IF2011).

23.) Nanoštruktúrne materiály pre senzoriku. *(Nanostructured materials for sensorics.)*

Zodpovedný riešiteľ:	Peter Lobotka
Zodpovedný riešiteľ v organizácii SAV:	Matej Mičušík
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0593-11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 10064 €

Dosiahnuté výsledky:

V začiatkoch projektu sme sa venovali hlavne hľadaniu vhodných postupov pri pokrývaní nanočastíc tenkou vrstvou vodivého polyméru, pomocou ktorej by sme výrazne zlepšili citlivosť aj selektivitu daných senzorov. Pre tento účel sa zakúpila elektrochemická cela s vhodnými elektródami pracujúcimi aj vo viskóznom prostredí iónových kvapalín. Elektrochemickou polymerizáciou sa budeme snažiť vytvoriť veľmi tenké vrstvy polymérneho filmu na povrchu nanočastíc (uhlíkové nanotrubičky, kovové nanočastice).

24.) Živá/kontrolovaná polymerizácia: Optimalizácia polymerizačného procesu pre prípravu dobre definovaných polymérov s cielenou architektúrou a vlastnosťami - LIVICOP. *(Living/controlled polymerizations: Optimization of polymerization process toward well defined polymers with targeted architecture and properties – LIVICOP.)*

Zodpovedný riešiteľ:	Jaroslav Mosnáček
Trvanie projektu:	1.5.2011 / 31.10.2014
Evidenčné číslo projektu:	APVV-0109-10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 66688 €

Dosiahnuté výsledky:

V rámci vývoja LC LCD sa identifikoval vysokoselektívny systém pre separáciu materských homopolymérov z kopolymérov poly(n-butyl akrylát)-blok-poly(metyl metakrylát) pomocou kvapalinovej chromatografie pri limitných podmienkach desorpcie, LC LCD. Systém sme úspešne otestovali na komerčnej vzorke blokového kopolyméru PnBA-b-PMMA. Aplikácia systému na blokové kopolyméry PnBA-b-PMMA s veľkým rozdielom v dĺžke blokov však ukázala, že takéto bloky nie je možné úspešne kvantitaívne rozdeliť od homopolymérov, keďže blokový kopolymér s jedným dlhým a druhým krátkym blokom sa chová ako homopolymér. Napriek tomu možno konštatovať, že LC LCD možno využiť pri optimalizácii prípravy takýchto blokových kopolymérov, v prípade ak sa bude pracovať s blokmi s podobnou dĺžkou.

V rámci vývoja nových techník radikálovej polymerizácie s vratnou aktiváciou, sa vyvinula fotochemicky indukovaná radikálová polymerizácia s prenosom atómu, ktorá poskytuje výbornú kontrolu nad mólovými charakteristikami polymérov už pri použití 50 – 100 ppm katalyzátora. Ukázalo sa, že polymerizácia je svetlom nielen iniciovaná ale dochádza i k značnému urýchleniu polymerizácie, keď po vypnutí ožarovania, rýchlostná konštanta polymerizácie klesne o dva rády.

Výstupy:

1. MOSNÁČEK, Jaroslav - ILČÍKOVÁ, Markéta. Photochemically mediated atom transfer radical polymerization of methyl methacrylate using ppm amounts of catalyst. In Macromolecules, 2012, vol. 45, p. 5859-5865. (5.167 - IF2011).

2. ŠIŠKOVÁ, Alena - MACOVÁ, Eva - BEREK, Dušan. Liquid chromatography under limiting conditions of desorption 4 separation of blends containing low-solubility polymers. In European Polymer Journal, 2012, vol. 48, p. 155-168. (2.739 - IF2011).

25.) Karbonická anhydráza IX ako funkčný komponent nádorovej progresie: úloha v epitelovo - mezenchýmovej tranzícií a v prenose medzibunkových signálov. *(Carbonic anhydrase IX as a functional component of cancer progression: the role in epithelial-mesenchymal transition and intercellular signaling.)*

Zodpovedný riešiteľ:	Silvia Pastoreková
Zodpovedný riešiteľ v organizácii SAV:	Igor Lacík
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0658-11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0

Čerpané financie: APVV: 8831 €

Dosiahnuté výsledky:

Príprava chitozánových nanočastíc s cieľom ich využitia ako nosičov inhibítorov signalizačnej úlohy CA IX. Chitozánové nanočastice obsahujú sulfonamidy (inhibítory) konjugované na chitozánový reťazec a chitozán modifikovaný fluorescenčnou značkou pre detekciu prítomnosti, stability a príp. dávkovania inhibítora. Využitie hydrogélových mikročastíc pre imobilizáciu a kontrolované uvoľňovanie protilátok voči CA IX.

Výstupy:

1. SEMAK, Vladislav - KASÁK, Peter - VNUKOVÁ, Dominika - JANIKOVIČOVÁ, L. - TAKÁČOVÁ, M. - ZAŤOVIČOVÁ, M. - PASTOREKOVÁ, S. - LACÍK, Igor. Carbonic anhydrase inhibition approach based on chitosan nanoparticles. In POLYMÉRY 2012 - VII. Slovensko - Česká konferencia organizovaná pri príležitosti 50-teho výročia založenia Ústavu polymérov SAV: Smolenice, 26.11. - 30. 11. 2012: program a zborník príspevkov. - Bratislava: Ústav polymérov SAV, 2012, s. 92-93. ISBN 978-80-970923-0-6.

26.) Príprava nanoštrukturovaných filmov, ich integrácia s biorozpoznávacími elementami a ich následné využitie. *(Preparation of nanostructured interphases, their integration with bioelements and subsequent use.)*

Zodpovedný riešiteľ:	Ján Tkáč
Zodpovedný riešiteľ v organizácii SAV:	Peter Kasák
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0282-11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 2675 €

Dosiahnuté výsledky:

Nadizajnovali, zosyntetizovali a aplikovali sa deriváty lipoovej kyseliny s zwitteriónovým charakterom, ktoré po príprave monovrstiev znižujú nešpecifickú adsorpciu proteínov a zvyšujú selektivitu detekcie.

Programy: Štrukturálne fondy EÚ Regionálny operačný program

27.) Centrum pre Materiály, vrstvy a systémy pre Aplikácie a ChemIcké procesy v extrémNych podmienkAch (MACHINA) – Etapa II

Zodpovedný riešiteľ:	Miroslav Boča
Zodpovedný riešiteľ v organizácii SAV:	Mária Omastová
Trvanie projektu:	1.4.2010 / 31.3.2012
Evidenčné číslo projektu:	ITMS kód 26240120021
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav anorganickej chémie SAV, Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	MF SR: 7185 €

Dosiahnuté výsledky:

V rámci Centra MACHINA sa na Ústave polymérov SAV riešili aktivity špecifického cieľa 2.2. Nárast potenciálu sekcie pre polyméry a pilotná prevádzka novej infraštruktúry. Obstarali sa tieto prístroje: röntgenový fotoelektrónový spektrometer (XPS), kónický kalorimeter, pulzný laser a modulárny spektrofluorimeter. Všetky prístroje boli verejne obstarané, nasledovala ich inštalácia. Používajú sa na skúmanie vlastností pripravených materiálov a intenzívne ich využívajú pracovnícu ÚPo ako aj partneri projektu.

28.) Centrum aplikovaného výskumu nanočastíc.

Zodpovedný riešiteľ:	Eva Majková
Zodpovedný riešiteľ v organizácii SAV:	Ignác Capek
Trvanie projektu:	1.9.2009 / 31.12.2012
Evidenčné číslo projektu:	NFP26240220017
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	MF SR: 31287 €

Dosiahnuté výsledky:

Veľkosť nanočastíc striebra a železa stúpala so vzrastom koncentrácie prekurzorov striebra a železa a naopak klesala so vzrastom koncentrácie redukčného činidla a stabilizátora. V prípade mikroemulzného postupu napr. pre w ([voda]/[stabilizátor]) = 2.5 sa pripravili nanočastice striebra s priemerom d = 1.5 nm; pre w = 7.5 nanočastice s priemerom d = 3.4 nm; a pre w = 15 sa pripravili nanočastice striebra s priemerom d = 3.4 nm.

Výstupy:

1. VÉGSO, K. - ŠIFFALOVIČ, P. - JERGEL, M. - WEIS, M. Jr. - BENKOVIČOVÁ, M. - MAJKOVÁ, E. - LUBY, Š. - KOCSIS, T. - CAPEK, Ignác. Silver nanoparticle monolayer-to-Bilayer transition at the air/water interface as studied by the GISAXS technique: Application of a new paracrystal model. In Langmuir, 2012, vol. 28, no. 25, p. 9395-9404. (4.186 - IF2011).

29.) Moderné ekologicky nezávadné polyméry. *(Advanced Bio-Friendly Polymers.)*

Zodpovedný riešiteľ:	Jaroslav Mosnáček
Trvanie projektu:	1.10.2012 / 30.9.2014
Evidenčné číslo projektu:	HUSK/1101/1.2.1/0209
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií:	1 - Maďarsko: 1
Čerpané financie:	

Dosiahnuté výsledky:

Prešetrili sa spektrálne i mechanické vlastnosti LDPE mulčovacích fólií získané od slovenských koncových užívateľov po roku ich používania v reálnych podmienkach a porovnali sa s vlastnosťami nepoužívaných fólií. Zistila sa výrazná oxidácia častí fólií, ktoré boli nielen vystavené slnečnému žiareniu ale i tých častí, ktoré boli prikryté zeminou a teda ich fotooxidácia bola minimálna a pravdepodobne muselo teda dochádzať čiastočne i k ich biooxidácii.

Programy: Štrukturálne fondy EÚ Výskum a vývoj

30.) Reinžiniering produktového portfólia VIPO, a.s. *(Adjusting the product portfolio of VIPO.)*

Zodpovedný riešiteľ:	Ivan Chodák
Trvanie projektu:	1.2.2010 / 28.2.2013
Evidenčné číslo projektu:	26220220091 OP VaV-2009/2.2/03-SORO
Organizácia je koordinátorom projektu:	nie
Koordinátor:	VIPO a.s., Partizánske
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	MF SR: 972 €

Dosiahnuté výsledky:

Priebežne sa merali vlastnosti adhezív, pripravených vo VIPO. Charakterizovali sa meraním kontaktných uhlov a metódou DMTA

Výstupy: Interné správy

Programy: Centrá excelentnosti SAV

31.) Výskum medicínsky významných sacharidových derivátov. *(Research on medicinally significant saccharide derivatives.)*

Zodpovedný riešiteľ:	Slavomír Bystrický
Zodpovedný riešiteľ v organizácii SAV:	Juraj Kronek
Trvanie projektu:	1.2.2009 / 31.1.2013
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Chemický ústav SAV - koordinátor
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 13300 €

Dosiahnuté výsledky:

Pokračovalo sa v komplexnej charakteristike cytotoxicity a imunotoxicity polymérov na báze 2-oxazolínov. Ako už bolo ukázané v predošlých prácach, poly(2-alkyl-2-oxazolíny) s kratším alkylovým reťazcom patria medzi biologicky a medicínsky nezávadné polyméry s nízkym dopadom na živý organizmus. Naše štúdium sme doplnili o imunomodulačnú aktivitu myších makrofágov po pôsobení vybraných 2-oxazolínových polymérov. Po pôsobení vybraných polymérov sa analyzovali koncentrácie prozápalových cytokínov IL-1?, IL-6 a TNF-?, ktoré boli na úrovni kontroly čo potvrdilo veľmi nízku imunogenicitu študovaných polymérov.

Výstupy:

1. KRONEK, Juraj - PAULOVIČOVÁ, E. - PAULOVIČOVÁ, L. - KRONEKOVÁ, Zuzana - LUSTOŇ, Jozef. Immunomodulatory efficiency of poly(2-oxazolines). In Journal of Materials Science: Materials in Medicine, 2012, vol. 23, no. 6, p. 1457 - 1464. (2.316 - IF2011).

32.) Centrum Excelentnosti pre Funkcionalizované viacfázové materiály – FUN-MAT. *(Center of Excellence for Functionalized Multiphase Materials – FUN-MAT.)*

Zodpovedný riešiteľ:	Marián Krajčí
Zodpovedný riešiteľ v organizácii SAV:	Jaroslav Mosnáček
Trvanie projektu:	1.8.2011 / 31.12.2014
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 5010 €

Dosiahnuté výsledky:

Pripravili sa nanokompozity obsahujúce expandovaný grafit, ktoré boli pripravené metódou in situ polymerizácie. Tieto nanokompozity vykazovali vodivosť už pri koncentrácií nanoplniva 0.05 hmot. %. Taktiež sa touto metódou pripravili nanokompozity polylaktidov s uhlíkovými nanotrubičkami, ktoré mali navyše na svojom povrchu iniciačné skupiny, čím dochádzalo i ku graftovaniu nanotrubičiek reťazcami PLA. Pri zamiešaní takýchto nanokompozitov pripravených z dvoch rôznych enantiomérov LA vznikali doteraz nepozorované termicky stabilné PLA stereokomplexy. V rámci projektu sa vyvinula i nová obmena radikálovej polymerizácie s vratnou deaktiváciou, konkrétne fotochemicky indukovaná radikálová polymerizácia s prenosom atómu, ktorá bude následne študovaná i za účelom modifikácie rôznych povrchov.

Výstupy:

1. MOSNÁČEK, Jaroslav - ILČÍKOVÁ, Markéta. Photochemically mediated atom transfer radical polymerization of methyl methacrylate using ppm amounts of catalyst. In Macromolecules, 2012, vol. 45, p. 5859-5865. (5.167 - IF2011).

2. PASZKIEWICZ, S. - SZYMCZYK, A. - ŠPITALSKÝ, Zdenko - SOCCIO, M. - MOSNÁČEK, Jaroslav - EZQUERRA, T. A. - ROSLANIEC, Z. Electrical conductivity of poly(ethylene terephthalate)/expanded graphite nanocomposites prepared by In situ polymerization. In Journal of Polymer Science. Part B.Polymer Physics, 2012, vol. 50, p. 1645-1652. (1.531 - IF2011).

3. BRZEZINSKI, M. - BOGUSLAWSKA, M. - ILČÍKOVÁ, Markéta - MOSNÁČEK, Jaroslav - BIELA, T. Unusual thermal properties of polylactides and polylactide stereocomplexes containing polylactide-functionalized multi-walled carbon nanotubes. In Macromolecules, 2012, vol. 45, p. 8714-8721. (5.167 - IF2011).

4. PASZKIEWICZ, S. - ROSLANIEC, Z. - SZYMCZYK, A. - ŠPITALSKÝ, Zdenko - MOSNÁČEK, Jaroslav. Morphology and thermal properties of expanded graphite (EG)/poly(ethylene terephthalate) (PET) nanocomposites. In Chemik : miesiecznik naukowo-techniczny, 2012, tom. 66, nr. 1, p. 21-30. ISSN 0009-2886.

Programy: Vedecko-technické projekty

33.) Otestovanie vhodnosti spracovania laboratórne vyvinutého biodegradovateľného materiálu technológiou vstrekovania a príprava materiálu pre prevádzkové skúšky v rámci prenosu výsledkov výskumu do praxe. *(Testing the applicability of developed bidoegradable material for injection – molding technology and preparation of material for pilot tests aimed to technology transfer.)*

Zodpovedný riešiteľ:	Ivan Chodák

Trvanie projektu:	1.12.2012 / 31.3.2013
Evidenčné číslo projektu:	Dotácie na vedecko-technické služby č. 2012-16023/44330:1-11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Slovenský plastikársky klaster
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:

Vypracoval sa detailný plán postupu.

Príloha C

Publikačná činnosť organizácie (zoradená podľa kategórií)

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 NOVÁK, Igor - POPELKA, Anton - CHODÁK, Ivan - SEDLIAČIK, J. Study of adhesion and surface properties of modified polypropylene. In Polypropylene. - Rijeka, Croatia : InTech, 2012, chapter 9, p. 125 - 160. ISBN 978-953-51-0636-4.

ABC02 RYCHLÝ, Jozef - RYCHLÁ, Lýdia - LATTUATI-DERIEUX, A - RICHARDSON, E. Scientific assessment of plastics degradation. In Preservation of Plastics Artefacts in Museum Collections. - Bruxelles, Belgium : Éditions du Comité des travaux historiques et scientifiques, 2012, p. 159 - 215. ISBN 978-2-7355-0770-2.

ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

ADCA01 BARTOŠ, Josef - ISKROVÁ - MIKLOŠOVIČOVÁ, M. - CANGIALOSI, D. - ALEGRÍA, A. - ŠAUŠA, O. - ŠVAJDLENKOVÁ, Helena - ARBE, A. - KRIŠTIAK, J. - COLMENERO, J. Positron annihilation and relaxation dynamics from dielectric spectroscopy: poly (vinylmethylether). In Journal of Physics: Condensed Matter, 2012, vol. 24, art.no.155104. (2.546 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0953-8984.

ADCA02 BENKOVÁ, Zuzana - CIFRA, Peter. Simulation of semiflexible cyclic and linear chains moderately andstrongly confined in nanochannels. In Macromolecules, 2012, vol. 45, p. 2597 - 2608. (5.167 - IF2011). (2012 - Current Contents). ISSN 0024-9297.

ADCA03 BENKOVÁ, Zuzana - CORDEIRO, M. N. D. S. Molecular dynamics study of poly(ethylene oxide) chains densely grafted on siloxane surface in dry conditions. In Journal of Physical Chemistry C, 2012, vol. 116, p. 5576 - 3584. (4.805 - IF2011). (2012 - Current Contents). ISSN 1932-7447.

ADCA04 BOČA, M. - BARBORÍK, P. - MIČUŠÍK, Matej - OMASTOVÁ, Mária. X-ray photoelectron spectroscopy as detection tool for coordinated or uncoordinated fluorine atoms demonstrated on fluoride systems NaF, K2TaF7, K3TaF8, K2ZrF6, Na7Zr6F31 and K3ZrF7. In Solid State Sciences, 2012, vol. 14, p. 828 - 832. (1.856 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 1293-2558.

ADCA05 BRZEZINSKI, M. - BOGUSLAWSKA, M. - ILČÍKOVÁ, Markéta - MOSNÁČEK, Jaroslav - BIELA, T. Unusual thermal properties of polylactides and polylactide stereocomplexes containing polylactide-functionalized multi-walled carbon nanotubes. In Macromolecules, 2012, vol. 45, p. 8714 - 8721. (5.167 - IF2011). (2012 - Current Contents). ISSN 0024-9297.

ADCA06 BUČKO, M. - MISLOVIČOVÁ, D. - NAHÁLKA, J. - VIKARTOVSKÁ, A. - ŠEFČOVIČOVÁ, J. - KATRLÍK, J. - TKÁČ, J. - GEMEINER, P. - LACÍK, Igor - ŠTEFUCA, V. - POLAKOVIČ, M. - ROSENBERG, M. - REBROŠ, M. - ŠMOGROVIČOVÁ, D. - ŠVITEL, J. Immobilization in biotechnology and biorecognition: from macro- to nanoscale systems. In Chemical Papers, 2012, vol. 66, no. 11, p. 983 - 998. ISSN 0366-6352 Print.

ADCA07 BUJDÁK, J. - DANKO, Martin - CHORVÁT, D. Jr. - CZÍMEROVÁ, A. - SÝKORA, J. - LANG, K. Selective modification of layered silicate nanoparticle edges with fluorophores. In Applied Clay Science, 2012, vol. 65-66, p. 152 - 157. (2.474 - IF2011). (2012 - Current Contents). ISSN 0169-1317.

ADCA08 CAPEK, Ignác. On photoinduced miniemulsion polymerization of butyl acrylate with clay. In Designed Monomers and Polymers, 2012, vol. 15, no. 4, p. 345-355. (1.444 - IF2011). (2012 - Current Contents). ISSN 1385-772X.

ADCA09 CIFRA, Peter - BLEHA, Tomáš. Detection of chain backfolding in simulation of DNA in nanofluidic channels. In SOFT MATTER, 2012, vol. 8, p. 9022 - 9028. (4.390 - IF2011). (2012 - Current Contents). ISSN 1744-683X.

ADCA10 CIFRA, Peter - BLEHA, Tomáš. Free energy of polymers confined in open and closed cavities. In Macromolecular Theory and Simulations, 2012, vol. 21, p. 15 - 23. (1.709 - IF2011). (2012 - Current Contents). ISSN 1022-1344.

ADCA11 CIFRA, Peter. Weak -to-strong confinement transitionof semi-flexible macromolecules inslit and in channel. In Journal of Chemical Physics, 2012, vol. 136, art.no.024902. (3.333 - IF2011). (2012 - Current Contents). ISSN 0021-9606.

ADCA12 CZANIKOVÁ, Klaudia - KRUPA, Igor - ILČÍKOVÁ, Markéta - KASÁK, Peter - CHORVÁT, D. Jr. - VALENTIN, Marian - ŠLOUF, M. - MOSNÁČEK, Jaroslav - MIČUŠÍK, Matej - OMASTOVÁ, Mária. Photo-actuating materials based on elastomers and modified carbon nanotubes. In Journal of Nanophotonics, 2012, vol.6, 063522, p. [14]. (1.570 - IF2011). (2012 - Current Contents). ISSN 1934-2608.

ADCA13 DANKO, Martin - BUREŠ, F. - KULHÁNEK, J. - HRDLOVIČ, Pavol. Spectral properties of Y-shaped donor-acceptor push-pull imidazole-based fluorophores: comparison between solution and polymer matrices. In Journal of Fluorescence, 2012, vol. 22, p. 1165 - 1176. (2.107 - IF2011). (2012 - Current Contents). ISSN 1053-0509.

ADCA14 DANKO, Martin - ANDICS, Anita - KÓSA, Csaba - HRDLOVIČ, Pavol - VEGH, D.. Spectral properties of chalcone containing triphenylamino structural unit in solution and in polymer matrices. In Dyes and Pigments, 2012, vol. 92, p. 1257 - 1265. (3.126 - IF2011). (2012 - Current Contents). ISSN 0143-7208.

ADCA15 DONOVALOVÁ, J. - CIGÁŇ, M. - STANKOVIČOVÁ, H. - GAŠPAR, J. - DANKO, Martin - GÁPLOVSKÝ, A. - HRDLOVIČ, Pavol. Spectral properties of substituted coumarins in solution and polymer matrices. In Molecules, 2012, vol. 17, p. 3259 - 3276. (2.386 - IF2011). (2012 - Current Contents). ISSN 1420-3049.

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ADCB01 BEREK, Dušan. Liquid chromatography of synthetic polymers under limiting conditions of insolubility III. In Macromolecular Symposia, 2007, vol. 258, p. 198-215. ISSN 1022-1360.

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ADCB02 BEUERMANN, S. - BUBACK, M. - HESSE, P. - KUKUČKOVÁ, Silvia - LACÍK, Igor. Propagation kinetics of free-radical methacrylic acid polymerization in aqueous solution. The effect of concentration and degree of ionization. In Macromolecular Symposia, 2007, vol. 248, p. 23-32. ISSN 1022-1360.

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ADCB03 BEUERMANN, S. - BUBACK, M. - HESSE, P. - KUKUČKOVÁ, Silvia - LACÍK, Igor. Propagation rate coefficient of non-ionized methacrylic acid radical polymerization in aqueous solution. The effect of monomer conversion. In Macromolecular Symposia, 2007, vol. 248, p. 41-49. ISSN 1022-1360.

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ADEA01 FISZER-KIERZKOWSKA, A. - VYDRA, N. - WYSOCKA-WYCISK, A.A. - KRONEKOVÁ, Zuzana - JARZAB, M. - LISOWSKA, K. M. - KRAWCZYK, Z. Liposome-based DNA carries may induce cellular stress response and change gene expression pattern in transfected cells. In BMC Molecular Biology, 2011, vol. 12, art.no. 27, p. [9]. (3.188 - IF2010). ISSN 1471-2199.

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ADEB01 BORSIG, Eberhard - UJHELYOVÁ, A. - MLYNARČÍKOVÁ, Z. - KAEMFER, D. - MÜLHAUPT, R. - MARCINČIN, A. - BEREK, Dušan. DSC study of syndiotactic polypropylene-organoclay nanocomposite fibers: crystallization and melting behavior. In International Journal of Polymeric Materials, 2007, vol. 56, p. 771-788. ISSN 0091-4037.

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AEE Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch (aj konferenčných), monografiách

AEE01 ZOIS, H. - APEKIS, L. - OMASTOVÁ, Mária. Electrical properties and percolation phenomena in carbon black filled polymer composites. In Proceedings : International Symposium on Electrets, 1999, P. 529 - 532.

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AEGA Stručné oznámenia, abstrakty vedeckých prác v zahraničných karentovaných časopisoch impaktovaných

AEGA01 MOSNÁČEK, Jaroslav - MATYJASZEWSKI, K. Atom transfer radical polymerization of Tulipalin A: A naturally renewable monomer. In Macromolecules, 2008, vol. 41, no. 15, p. 5509 - 5511. (4.411 - IF2007). (2008 - Current Contents). ISSN 0024-9297.

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3. [1.1] HU, Y.J. - GUSTAFSON, L.O. - ZHU, H.P. - CHEN, E.Y.X. Anionic Polymerization of MMA and Renewable Methylene Butyrolactones by Resorbable Potassium Salts. In JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY. ISSN 0887-624X, MAY 1 2011, vol. 49, no. 9, p. 2008-2017., WOS

4. [1.1] ROBERTSON, M.L. - PAXTON, J.M. - HILLMYER, M.A. Tough Blends of Polylactide and Castor Oil. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, SEP 2011, vol. 3, no. 9, p. 3402-3410., WOS

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6. [1.1] ZHANG, Y.T. - GUSTAFSON, L.O. - CHEN, E.Y.X. Dinuclear Silylium-enolate Bifunctional Active Species: Remarkable Activity and Stereoselectivity toward Polymerization of Methacrylate and Renewable Methylene Butyrolactone Monomers. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, AUG 31

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AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 CARLSSON, D. J. - CHMELA, Štefan - LACOSTE, J. Stabilization of polyolefins to gamma-irradiation. The role of the initial radicals. In Polymer Preprints, 1990, vol. 31, no. 2, p. 347 - 348.

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1. [1.2] ALBANO, C.- PERERA, R.- KARAM, A.- DE ABREU, L. - ANCHEZ, Y.- SILVA, P.Characterization of blends of PP with vitamins "c" and "e" exposed to gamma radiation at sterilization dose. (2011) Polymer Bulletin, 66 (8), pp. 1137-1148., Scopus

AFDA Publikované príspevky na medzinárodných vedeckých konferenciách poriadaných v SR

AFDA01 NOVÁK, Igor - SYSEL, P. - CHODÁK, Ivan - ŠPIRKOVÁ, M. - JANIGOVÁ, Ivica. Surface properties of poly(imide-co-siloxane) block copolymers. In Chemické listy, 2009, roč. 103, č. S, s. 76 -78. (0.593 - IF2008). (2009 - Current Contents). ISSN 0009-2770.

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BDEB Odborné práce v zahraničných nekarentovaných časopisoch neimpaktovaných

BDEB01 DECKER, C. - FAURE, J. - FIZET, M. - RYCHLÁ, Lýdia. Elimination of oxygen inhibition in photopolymerization. In Photographic Science and Engineering, 1978, vol. 23, no. 3, p. 137 - 140.

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Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

prof. Ing. Tomáš Bleha, DrSc.
Názov semestr. predmetu: Teória a technológia spracovania plastov
Počet hodín za semester: 13
Názov katedry a vysokej školy: Materiálovotechnologická fakulta STU v Trnave, 1. Ročník inžinierskeho štúdia

prof. RNDr. Ignác Capek, DrSc.
Názov semestr. predmetu: Technológia prípravy materiálov
Počet hodín za semester: 24
Názov katedry a vysokej školy: Fakulta priemyselných technológií TnUAD v Púchove, Fakulta priemyselných technológií

RNDr. Peter Cifra, DrSc.
Názov semestr. predmetu: Makromolekulová chémia
Počet hodín za semester: 16
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, 4-5 ročník

prof. Ing. Ivan Chodák, DrSc.
Názov semestr. predmetu: Fyzika polymérov
Počet hodín za semester: 24
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie plastov a kaučuku

Mgr. Juraj Kronek, PhD.
Názov semestr. predmetu: Makromolekulová chémia
Počet hodín za semester: 6
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, 4-5 ročník

Semestrálne cvičenia:

Semináre:

doc. Ing. Dušan Berek, DrSc.
Názov semestr. predmetu: •Kvapalinová chromatografia polymérov
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav polymérnych materiálov

doc. Ing. Dušan Berek, DrSc.
Názov semestr. predmetu: •Kvapalinová chromatografia polymérov
Počet hodín za semester: 3
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra analytickej chémie

Ing. Mária Omastová, DrSc.
Názov semestr. predmetu: Makromolekulová chémia
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, prednášky pre PhD študentov

Terénne cvičenia:

Individuálne prednášky:
Príloha E

Medzinárodná mobilita organizácie

(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:

Krajina	**D r u h d o h o d y**					
	MAD, KD, VTS		**Medziústavná**		**Ostatné**	
	Meno pracovníka	**Počet dní**	**Meno pracovníka**	**Počet dní**	**Meno pracovníka**	**Počet dní**
Austrália			Lýdia Rychlá	8		
			Jozef Rychlý	8		
Belgicko			Ivan Chodák	2		
			Igor Lacík	1		
Bulharsko	Juraj Kronek	6	Juraj Kronek	2		
	Marcel Mikulec	6	Marcel Mikulec	2		
Česko	Ivica Janigová	10	Markéta Ilčíková	8	Zuzana Hloušková	1
	Mária Omastová	5	Markéta Ilčíková	6	Juraj Kronek	1
			Markéta Ilčíková	7	Igor Lacík	1
			Andrea Mihálová	6	Mária Omastová	2
			Patrik Sobolčiak	4	Jozef Rychlý	1
					Mária Šivová	1
Čína					Dušan Berek	10
Fínsko			Ján Kratochvíla	4		
			Igor Krupa	4		
Francúzsko	Dušan Berek	6	Štefan Chmela	29	Dušan Berek	8
			Igor Krupa	11		
			Igor Krupa	7		
			Igor Krupa	13		
Grécko					Josef Bartoš	4
					Helena Švajdlenková	4
Katar			Peter Kasák	31		
			Igor Krupa	7		
			Igor Krupa	92		
			Jozef Rychlý	10		
			Zdenko Špitálsky	7		
Lichtenštajsko					Juraj Pavlinec	4
Maďarsko	Klaudia Czaniková	7				
Nemecko			Josef Bartoš	25		
			Ignác Capek	15		
			Ignác Capek	15		
			Martin Danko	20		
			Markéta Ilčíková	42		
			Igor Lacík	2		
			Igor Lacík	2		
			Igor Lacík	2		

			Jaroslav Mosnáček	20		
			Dušan Račko	6		
			Marek Stach	2		
			Marek Stach	2		
			Marek Stach	2		
			Helena Švajdlenková	25		
Nórsko			Peter Kasák	5		
			Gabriela Kolláriková	5		
			Igor Lacík	5		
Poľsko	Katarína Borská	8	Katarína Borská	2		
	Martin Danko	4	Juraj Krajči	3		
			Igor Lacík	3		
			Igor Novák	3		
			Marian Valentin	3		
Portugalsko			Markéta Ilčíková	8	Zuzana Benková	366
			Marta Malíková	3		
			Dušan Račko	6		
			Zdenko Špitálsky	8		
Rakúsko					Branislav Husár	366
					Ivan Chodák	1
					Ivan Chodák	1
					Mária Omastová	1
					Silvia Podhradská	1
Slovinsko					Igor Lacík	4
					Silvia Podhradská	3
Španielsko			Josef Bartoš	31	Mária Omastová	4
			Ján Kratochvíla	7		
			Mária Omastová	4		
			Helena Švajdlenková	31		
Švajčiarsko					Lucia Učňová	366
Taliansko	Dušan Berek	19	Dušan Berek	2	Mária Omastová	4
	Alena Šišková	19	Ivan Chodák	2		
			Juraj Krajči	3		
			Alena Šišková	32		
			Marian Valentin	3		
USA			Peter Kasák	7	Dušan Berek	12
			Igor Lacík	7		
Veľká Británia			Igor Krupa	3	Dušana Mocinecová	7
			Jaroslav Mosnáček	3		
			Mária Omastová	3		
Počet vyslaní spolu	**10**	**90**	**62**	**641**	**24**	**1173**

(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:

Krajina	**D r u h d o h o d y**					
	MAD, KD, VTS		**Medziústavná**		**Ostatné**	
	Meno pracovníka	**Počet dní**	**Meno pracovníka**	**Počet dní**	**Meno pracovníka**	**Počet dní**
Argentína	MEIRA G.	10				
	VEGA J.	10				
Bulharsko	KYULAVSKA M.	7	CHRISTOVA D.	6		
	PETROVA S.	7	IVANOVA S.	6		
			MILEVA K.	6		
Česko	KOVÁŘOVÁ	4	JANDIKOVÁ G.	4	OMELKA L.	1
	STEJSKAL J.	10	MOUČKA R.	6		
	TRCHOVÁ M.	5	MOUČKA R.	4		
			MOUČKA R.	5		
			SEDLAČÍK M.	5		
Egypt	HAMIED A.E.S.E.A.	30				
	MONTASIRA A.S.A.	30				
Francúzsko	ROLLET M.	3	TRIGUI A.	10		
	TRANG P.	3				
Grécko			KOUMOLOUS E.	21		
Nemecko	KOYNOV K.	5	DOROSHENKO M.	8		
			HAHNEL A.	26		
			HAHNEL A.	30		
			SCHÄFFEL D.	8		
Portugalsko			COSTA L.C.	7		
			VALENTE M. A.	7		
Veľká Británia					TERENTJEV E.	2
Počet prijatí spolu	**12**	**124**	**16**	**159**	**2**	**3**

(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Austrália	33rd Australasian Polymer Symposium	Lýdia Rychlá	4
		Jozef Rychlý	4
Belgicko	Graphene 2012	Zdenko Špitálsky	7
Bulharsko	XVII National Symposium POLYMERS 2012	Juraj Kronek	3
	XVII NS - POLYMERS 2012	Marcel Mikulec	3
Česko	43. konferencia o náterových hmotách	Igor Novák	3
	4th EuChemMS Chem. Congress	Tomáš Bleha	5
	64. Zjazd českých a schs	Klaudia Czaniková	3
	64. Zjazd ČS chemických spoločností	Milica Riecka	3
	64. Zjazd ČS chemických spoločností	Juraj Krajči	3
		Marcel Mikulec	3
		Peter Palenčár	3
		Jana Riecka	3
	64. Zjazd čs chemických spoločností	Jana Tabačiarová	4
		Marian Valentin	3
	7th International ECNP Conference..	Mária Omastová	5
	MODEST 2012	Marcel Mikulec	5
		Jozef Rychlý	5
	NANOCON 2012	Matej Mičušík	3
	Plastko 2012	Ľudmila Hrčková	3
		Markéta Ilčíková	2
		Zuzana Nógellová	3
	Plastko 2012	Igor Novák	3
		Mária Omastová	2
	PMM 2012	Juraj Kronek	5
		Andrea Mihálová	5
	Polymers in Medicine – PMM 2012	Dušana Mocinecová	5
	Workshop Pokročilé materiály pre organickú elektro	Martin Danko	2
Čína	BIT´s 1st A W C on Advanced Materials 2012	Dušan Berek	4
Francúzsko	Preservation of Plastic ARTefacts in Museum Collec	Lýdia Rychlá	5
		Jozef Rychlý	5
Grécko	GrapHel	Zdenko Špitálsky	5
Holandsko	POLYMAT 2012	Ivan Chodák	4
Chorvátsko	POLYCHAR 20	Dušan Berek	2
Maďarsko	27th C of Federation of the IDS on Diabetes Mellitus	Igor Lacík	2
	IC Bio-based Polymer and Composites	Ivan Chodák	5
Maurícius	ICPAC 2012	Klaudia Czaniková	9
		Ivica Janigová	9
		Mária Omastová	9
Nemecko	15th IC Polymeric Materials 2012	Ivan Chodák	4

	2nd IC on Electromechanically Active Polymer Trans	Mária Omastová	4
		Jana Tabačiarová	4
	BDS 2012	Josef Bartoš	6
	Broadband Dielectric Spectroscopy (BDS 2012) and i	Helena Švajdlenková	6
Poľsko	29th I S on Chromatography	Dušan Berek	5
	29th International Symposium on Chromatography	Alena Šišková	5
	55. Zjazd PTChem I SiTPChem	Markéta Ilčíková	8
		Alena Šišková	5
Portugalsko	1st IC on Biomedical and Biomimetic Adhesives	Peter Kasák	5
		Patrik Sobolčiak	5
Rakúsko	CECP 2012	Martin Danko	3
	CECP 2012	Juraj Kronek	3
Slovinsko	2nd IC Trends in Bioplastics	Ivan Chodák	3
Španielsko	11th EuS on Polymer Blends	Ivan Chodák	6
Švajčiarsko	9th IS on Polyelectrolytes-ISP 2012	Igor Lacík	7
Taliansko	6th IC on Times of Polymers and Composites TOP 20	Jaroslav Mosnáček	8
	6th IC TOP 2012	Jozef Kollár	8
	Progress in Applied Surface, Interface and Thin Fi	Matej Mičušík	7
	TOP 2012	Martin Danko	8
Tunisko	MADICA 2012	Mária Omastová	6
USA	ACS Symposium – Chemistry for Life	Juraj Kronek	8
	Gordon R C - Biopolymers	Peter Cifra	10
	IUPAC Macro, World Polymer Congress	Igor Lacík	9
Veľká Británia	Topological Aspects of DNA Function ..	Peter Cifra	7
	Warwick Polymer Chemistry 2012	Jaroslav Mosnáček	5
Spolu	**49**	**65**	**316**

Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd

Skratky použité v tabuľke C:

11th EuS on Polymer Blends - 11th European Symposium on Polymer Blends
15th IC Polymeric Materials 2012 - 15th International Conference Polymeric Materials 2012
1st IC on Biomedical and Biomimetic Adhesives - 1st International Conference on Biomedical and Biomimetic Adhesives
27th C of Federation of the IDS on Diabetes Mellit - 27th Congress of the Federation of the International Danube Symposia on Diabetes Mellitus
29th I S on Chromatography - 29th International Symposium on Chromatography
29th International Symposium on Chromatography - 29th International Symposium on Chromatography
2nd IC on Electromechanically Active Polymer Trans - 2nd International Conference on Electromechanically Active Polymer Transducers and Artificial Muscles
2nd IC Trends in Bioplastics - 2nd International Conference Trends in Bioplastics
33rd Australasian Polymer Symposium - 33rd Australasian Polymer Symposium
43. konferencia o náterových hmotách - 43. konferencia o náterových hmotách
4th EuChemMS Chem. Congress - 4th EuChemMS Chemistry Congress
55. Zjazd PTChem I SiTPChem - 55. Zjazd PTChem I SiTPChem
64. Zjazd českých a schs - 64. Zjazd českých a slovenských chemických spoločností
64. Zjazd ČS chemických spoločností - 64. Zjazd českých a slovenských chemických spoločností

64. Zjazd ČS chemických spoločností - 64. Zjazd českých a slovenských chemických spoločností
6th IC on Times of Polymers and Composites TOP 20 - 6th International Conference on Times of Polymers and Composites TOP 2012
6th IC TOP 2012 - 6th International Conference on Times of Polymers and Composites TOP 2012
7th International ECNP Conference.. - 7th International ECNP Conference on Nanostructured Polymers and Nanocomposites
9th IS on Polyelectrolytes-ISP 2012 - 9th International Symposium on Polyelectrolytes–ISP 2012
ACS Symposium – Chemistry for Life - ACS Symposium – Chemistry for Life
BDS 2012 - Broadband Dielectric Spectroscopy (BDS 2012) and its Application
BIT´s 1st A W C on Advanced Materials 2012 - BIT´s 1st Annual World Congress on Advanced Materials 2012
Broadband Dielectric Spectroscopy (BDS 2012) and i - Broadband Dielectric Spectroscopy (BDS 2012) and its Application
CECP 2012 - CECP 2012 - Central European Conference on Photochemistry
Gordon R C - Biopolymers - Gordon Research Conferences - Biopolymers
GrapHel - GrapHel - a European Conference/Workshop on the Synthesis, Characterization and Applications of Graphene 2012
IC Bio-based Polymer and Composites - International Conference Bio-based Polymer and Composites
ICPAC 2012 - International Conference on Pure and Applied Chemistry ICPAC 2012
IUPAC Macro, World Polymer Congress - IUPAC Macro, World Polymer Congress
MADICA 2012 - MADICA 2012
MODEST 2012 - MODEST 2012
NANOCON 2012 - 4. ročník medzinárodné conference NANOCON 2012
Plastko 2012 - Plastko 2012
PMM 2012 - Polymers in Medicine – PMM 2012
POLYCHAR 20 - World Forum on Advanced Materials – POLYCHAR 20
POLYMAT 2012 - International Conference ROLDUC Polymer Meeting 8 POLYMAT 2012
Polymers in Medicine – PMM 2012 - Polymers in Medicine – PMM 2012
Preservation of Plastic ARTefacts in Museum Collec - Preservation of Plastic ARTefacts in Museum Collections
Progress in Applied Surface, Interface and Thin Fi - Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News III - Surfint-Sreen III
TOP 2012 - 6th International Conference on Times of Polymers and Composites TOP 2012
Topological Aspects of DNA Function .. - Topological Aspects of DNA Function and Protein Folding
Warwick Polymer Chemistry 2012 - Warwick Polymer Chemistry 2012
Workshop Pokročilé materiály pre organickú elektro - Workshop Pokročilé materiály pre organickú elektroniku
XVII National Symposium POLYMERS 2012 - XVII National Symposium open to International Participation POLYMERS 2012
XVII NS - POLYMERS 2012 - XVII National Symposium open to International Participation POLYMERS 2012