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Zoran Markovič, PhD

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Education

Jun 1997 – Sep 2002 **University of Belgrade**
PhD, Physics
Belgrade, Serbia

Thesis Kinetics of fullerene formation in contact arc generator

Research Experience

Jan 2016 – present **Research Scientist**
Slovak Academy of Sciences, Polymer Institute of Slovak Academy of Sciences
, Slovakia

Jan 2008 – present **Professor (Full)**
Vinča Institute of Nuclear Sciences, Department of Radiation Chemistry and
Physics
Belgrade, Serbia

web site [http:// graphene.vinca.rs](http://graphene.vinca.rs) ; <http://www.vin.bg.ac.rs/030/>

Jan 2003 – Jan 2007 **visiting scientist**
Hungarian Academy of Sciences, Institute of Materials and Environmental
Chemistry

Statistics

Publications 112

Citations 1489

Awards & Grants

Jun 2016 Award: Marie Curie Fellow

- Apr 2016* Grant: ANTIBACTERIAL GRAPHENE/POLYMER NANOCOMPOSITE
- Jan 2015* Grant: 2014-2015 Transparent, conductive graphene and graphene nanomesh films
- Jan 2014* Grant: 2014-2015 Thin films of graphene and graphene nanoribbon for electronic applications
- Jan 2011* Grant: 2011-2014 Thin films of carbon nanotubes and graphene for electronic application
- Jan 2006* Grant: 2005-2010 Cytotoxic , cytoprotective and immunomodulator effects of nanoparticles
- Jan 2005* Grant: 2005-2010 Electron and laser spectrometry of molecules
- Jan 2002* Grant: 2002-2005 Physics of thin films and surfaces
- Jan 1995* Grant: 1995-2000 Atomic collision on phase boundaries

Skills & Activities

Skills Material Characterization, Nanomaterials, Materials, Materials Chemistry, Nanoparticles, Thin Film Deposition, Material Characteristics, Thin Film Processing, Carbon, Graphite, Cell Death, Fullerenes, Thin Films, Graphene Growth, Graphene, Graphene Electronics, Nanotechnology, Condensed Matter Physics, Solid-State Chemistry, Materials Research, Carbon Nanomaterials, Advanced Materials, Biophysics, Graphene Nanoribbon, Cytotoxicity, Thin Films and Nanotechnology, Carbon Nanotubes, Nanomaterials Synthesis, Atomic Force Microscopy, Oxidative Stress, Nanostructured Materials, Fullerene, Reactive Oxygen Species, Nanoelectronics, Carbon Nanotubes Functionalization, Nanoscience, Graphene-based Materials, Graphene Nanocomposites, Nanotubes, Functionalization, EPR, Raman Spectroscopy, Optics, Infrared Spectroscopy , Colloids, Amorphous Carbon, Dynamic Light Scattering, Graphene Sheets, Electron Spin Resonance, Spectra

Languages English fluent, Russian and Slovak basic level

Scientific Memberships American Nano Society
Serbian Microscopic Society

Interests Martial arts, History

Publication Highlights

Vladislav Volarevic, Verica Paunovic, **Zoran Markovic**, Bojana Simovic Markovic, Maja Misirkic-Marjanovic, Biljana Todorović Marković, Sanja Bojic, Ljubica Vucicevic, Svetlana Jovanovic, Nebojsa Arsenijevic, Ivanka Holclajtner-Antunović, Momir Milosavljevic, Miroslav D Dramicanin, Tamara Kravic-Stevovic, Darko Ciric, Miodrag L. Lukic, Vladimir Trajkovic: *Large Graphene*

Quantum Dots Alleviate Immune-Mediated Liver Damage. ACS Nano 11/2014; 8(12).
DOI:10.1021/nm502466z

Biljana Z Ristic, Marina M Milenkovic, Ivana R Dakic, Biljana M Todorovic-Markovic, Momir S Milosavljevic, Milica D Budimir, Verica G Paunovic, Miroslav D Dramicanin, Zoran M Markovic, Vladimir S Trajkovic: *Photodynamic antibacterial effect of graphene quantum dots*. Biomaterials 03/2014; 35(15). DOI:10.1016/j.biomaterials.2014.02.014

Laura Hulea, **Zoran Markovic**, Ivan Topisirovic, Thomas Simmet, Vladimir Trajkovic: *Biomedical Potential of mTOR Modulation by Nanoparticles*. Trends in Biotechnology 02/2016;
DOI:10.1016/j.tibtech.2016.01.005

Zoran M Markovic, Biljana Z Ristic, Katarina M Arsikin, Djordje G Klisic, Ljubica M Harhaji-Trajkovic, Biljana M Todorovic-Markovic, Dejan P Kepic, Tamara K Kravic-Stevovic, Svetlana P Jovanovic, Marina M Milenkovic, Dusan D Milivojevic, Vladimir Z Bumbasirevic, Miroslav D Dramicanin, Vladimir S Trajkovic: *Graphene quantum dots as autophagy-inducing photodynamic agents*. Biomaterials 07/2012; 33(29). DOI:10.1016/j.biomaterials.2012.06.060

Books

Zoran Markovic, Biljana Todorović-Marković: *Наноструктурне Соларне Телује* e. 06/2013; Akademska Misao, Belgrade., ISBN: 978-86-7466-464-3

Igor Balać, Branko Bugarski, Irena Ćosić, Miroslav Dramićanin, Drago Đurđević, Nenad Filipović, Nenad Ignjatović, Đurđe Janačković, Miloš Kojić, Verica Manojlović, **Zoran Markovic**, Bojana Obradović, Ivana Pajić-Lijaković, Miodrag Pavlović, Milenko Plavšić, Dejan Raković, Vladimir Ranković, Boban Stojanović, Vladimir Trajković, Dragan Uskoković, Petar Uskoković, Dejan Veljković, Ivo Vlastelica, Gordana Vunjak-Novaković: *BIOMATERIJALI*. Edited by Dragan Uskokovic & Dejan Rakovic, 01/2009; Materials Research Society of Serbia.

Book Chapters

Zoran Markovic, Svetlana Jovanović, Momir Milosavljević, Ivanka Holclajtner-Antunović, Biljana Todorović-Marković: *Graphene Nanoribbons Synthesis by Gamma Irradiation of Graphene and Unzipping of Multiwall Carbon Nanotubes*. Graphene Science Handbook Fabrication Methods, Edited by Mahmood Aliofkhaezai, Nasar Ali, William I. Milne, Cengiz S. Ozkan, Stanislaw Mitura, and Juana L. Gervasoni, 05/2016: chapter 22; CRC Press., ISBN: 978-1-4665-9128-8

Z. Markovic, D. Kleut, B. Babić, I. Holclajtner-Antunović, V. Pavlović, B. Todorović-Marković: *Carbon-Doped Cryogel Thin Films Derived from Resorcinol Formaldehyde*. Advanced Carbon Materials and Technology, 12/2013; , ISBN: 9781118686232

Biljana Todorović-Marković, **Zoran Markovic**, Ilija Draganić, Dana Vasiljević-Radović, Nebojša Romčević, Maja Romčević, Miroslav Dramićanin: *SURFACE MODIFICATION OF FULLERENE THIN FILMS BY DIFFERENT MULTIPLE CHARGED IONS*. Progress in Fullerene Research, Edited by Milton Lang, 06/2007: chapter 11; Nova Science Publishers., ISBN: 978-1-60021-841-5

Journal Publications

- Milica J. Vujković, Bojan A. Vidoeski, Svetlana P. Jovanović, Danica V. Bajuk-Bogdanović, Milica D. Budimir, **Zoran M. Markovic**, Vladimir B. Pavlović, Biljana M. Todorović-Marković, Ivanka D. Holclajtner-Antunović: *SYNTHESIS AND CHARACTERIZATION OF ELECTROCHEMICALLY EXFOLIATED GRAPHENE-MOLYBDOPHOSPHATE HYBRID MATERIALS FOR CHARGE STORAGE DEVICES*.
- D. Tosić, Z. **Markovic**, S. Jovanovic, J. Prekodravac, M. Budimir, D. Kepić, I. Holclajtner-Antunovic, M. Dramićanin, B. Todorovic-Markovic: *Rapid thermal annealing of nickel-carbon nanowires for graphene nanoribbons formation*. *Synthetic Metals* 08/2016; 218. DOI:10.1016/j.synthmet.2016.04.016
- Zoran M Markovic**, Milica D Budimir, Dejan P Kepić, Ivanka Holclajtner-Antunović, Milena Marinović-Cincović, Miroslav D Dramićanin, Vuk D Spasojević, Davor Perusko, Zdeno Spitalsky, Matej Micusik, Vladimir Pavlovic, Biljana Todorović Marković: *Semi-transparent, conductive thin films of electrochemical exfoliated graphene*. *RSC Advances* 04/2016; 6(45). DOI:10.1039/C6RA04250C
- Verica Paunovic, Biljana Ristic, **Zoran Markovic**, Biljana Todorovic-Markovic, Milica Kosic, Jovana Prekodravac, Tamara Kravic-Stevovic, Tamara Martinovic, Matej Micusik, Zdeno Spitalsky, Vladimir Trajkovic, Ljubica Harhaji-Trajkovic: *c-Jun N-terminal kinase-dependent apoptotic photocytotoxicity of solvent exchange-prepared curcumin nanoparticles*. *Biomedical Microdevices* 04/2016; 18(2). DOI:10.1007/s10544-016-0062-2
- Svetlana Jovanović, **Zoran Markovic**, Milica Budimir, Zdenko Spitalsky, Bojan Vidoeski, Biljana Todorovic Markovic: *Effects of low gamma irradiation dose on the photoluminescence properties of graphene quantum dots*. *Optical and Quantum Electronics* 04/2016; 48(4). DOI:10.1007/s11082-016-0516-z
- Laura Hulea, **Zoran Markovic**, Ivan Topisirovic, Thomas Simmet, Vladimir Trajkovic: *Biomedical Potential of mTOR Modulation by Nanoparticles*. *Trends in Biotechnology* 02/2016; DOI:10.1016/j.tibtech.2016.01.005
- Jovana Prekodravac, **Zoran Markovic**, Svetlana Jovanović, Ivanka Holclajtner-Antunović, Vladimir Pavlović, Biljana Todorović-Marković: *Raman spectroscopy study of graphene thin films synthesized from solid precursor*. *Optical and Quantum Electronics* 02/2016; 48(2). DOI:10.1007/s11082-016-0385-5
- Bojan Vidoeski, Svetlana Jovanovic, Ivanka Holclajtner-Antunovic, Danica Bajuk-Bogdanovic, Milica Budimir, **Zoran Markovic**, Biljana Todorovic-Markovic: *Raman study of interactions between HOPG and polyoxometalates: The effects of acid concentration*. *Journal of the Serbian Chemical Society* 01/2016; 81(00). DOI:10.2298/JSC160301055V
- Svetlana P. Jovanović, Zois Syrgiannis, **Zoran M Markovic**, Aurelio Bonasera, Dejan P. Kepić, Milica D Budimir, Dusan Milivojevic, Vuk D. Spasojević, Miroslav D Dramićanin, Vladimir B Pavlović, Biljana M. Todorović Marković: *Modification of Structural and Luminescence Properties of Graphene Quantum Dots by Gamma Irradiation and Their Application in a Photodynamic Therapy*. *ACS Applied Materials & Interfaces* 11/2015; 7(46). DOI:10.1021/acsami.5b08226
- Jovana Prekodravac, **Zoran Markovic**, Svetlana Jovanović, Milica Budimir, Davor Peruško, Ivanka Holclajtner-Antunović, Vladimir Pavlović, Zois Syrgiannis, Aurelio Bonasera, Biljana Todorović-

Marković: *The effect of annealing temperature and time on synthesis of graphene thin films by rapid thermal annealing*. Synthetic Metals 11/2015; 209. DOI:10.1016/j.synthmet.2015.08.015

V. Volarevic, V. Paunovic, Z. **Markovic**, B. Simovic Markovic, M. Misirkic Marjanovic, B. Todorovic Markovic, S. Bojic, L. Vucicevic, S. Jovanovic, N. Arsenijevic, I. Holclajtner-Antunovic, M. Milosavljevic, M. Dramicanin, T. Kravic Stevovic, D. Ciric, M.L. Lukic, V. Trajkovic: *P0457 : Graphene quantum dots attenuate concanavalin A-induced hepatitis*. Journal of Hepatology 04/2015; 62. DOI:10.1016/S0168-8278(15)30665-6

Zoran M. Markovic, Jovana R. Prekodravac, Dragana D. Tomic, Ivanka D. Holclajtner-Antunovic, Momir S. Milosavljevic, Miroslav D. Dramicanin, Biljana M. Todorovic-Markovic: *Facile synthesis of water-soluble curcumin nanocrystals*. Journal of the Serbian Chemical Society 01/2015; 80(1). DOI:10.2298/JSC140819117M

Dejan P. Kepić, **Zoran M. Markovic**, Svetlana P. Jovanović, Davor B. Peruško, Milica D. Budimir, Ivanka D. Holclajtner-Antunović, Vladimir B. Pavlović, Biljana M. Todorović Marković: *Preparation of PEDOT:PSS thin films doped with graphene and graphene quantum dots*. Synthetic Metals 12/2014; 198. DOI:10.1016/j.synthmet.2014.10.017

Vladislav Volarevic, Verica Paunovic, **Zoran Markovic**, Bojana Simovic Markovic, Maja Misirkic-Marjanovic, Biljana Todorović Marković, Sanja Bojic, Ljubica Vucicevic, Svetlana Jovanovic, Nebojsa Arsenijevic, Ivanka Holclajtner-Antunović, Momir Milosavljevic, Miroslav D Dramicanin, Tamara Kravic-Stevovic, Darko Ciric, Miodrag L. Lukic, Vladimir Trajkovic: *Large Graphene Quantum Dots Alleviate Immune-Mediated Liver Damage*. ACS Nano 11/2014; 8(12). DOI:10.1021/nn502466z

J R Prekodravac, S P Jovanović, I D Holclajtner-Antunović, D B Peruško, V B Pavlović, D D Tošić, B M Todorović-Marković, Z M **Markovic**: *Monolayer graphene films through nickel catalyzed transformation of fullerol and graphene quantum dots: A Raman spectroscopy study*. Physica Scripta 09/2014; 2014(T162). DOI:10.1088/0031-8949/2014/T162/014030

D. N. Kleut, Z. M. **Markovic**, I. D. Holclajtner Antunovic, Miroslav D Dramicanin, D. P. Kepić, B. M. Todorović Marković: *Gamma ray-assisted irradiation of few-layer graphene films: A Raman spectroscopy study*. Physica Scripta 09/2014; T162(T162). DOI:10.1088/0031-8949/2014/T162/014025

S. Jovanovic, T. Da Ross, A. Ostric, D. Tomic, J. Prekodravac, Z. **Markovic**, B. Todorovic Markovic: *Raman spectroscopy of graphene nanoribbons synthesized by longitudinal unzipping of multiwall carbon nanotubes*. Physica Scripta 09/2014; T162(T162). DOI:10.1088/0031-8949/2014/T162/014023

D. Kepic, Z. **Markovic**, S. Jovanovic, I. Holclajtner Antunovic, D. Kleut, B. Todorovic Markovic: *Novel method for graphene functionalization*. Physica Scripta 09/2014; T162(T162). DOI:10.1088/0031-8949/2014/T162/014024

Una Bogdanović, Vesna Lazić, Vesna Vodnik, Milica Budimir, Zoran **Markovic**, Suzana Dimitrijević: *Copper nanoparticles with high antimicrobial activity*. Materials Letters 08/2014; 128. DOI:10.1016/j.matlet.2014.04.106

Svetlana P. Jovanović, Zoran M. **Markovic**, Duška N. Kleut, Miroslav D Dramicanin, Ivanka D. Holclajtner-Antunović, Momir S. Milosavljević, Valeria La Parola, Zois Syrgiannis, Biljana M. Todorović Marković: *Structural Analysis of Single Wall Carbon Nanotubes Exposed to Oxidation and*

Reduction Conditions in the Course of Gamma Irradiation. The Journal of Physical Chemistry C 07/2014; 118(29). DOI:10.1021/jp502685n

- Biljana Z Ristic, Marina M Milenkovic, Ivana R Dakic, Biljana M Todorovic-Markovic, Momir S Milosavljevic, Milica D Budimir, Verica G Paunovic, Miroslav D Dramicanin, **Zoran M Markovic**, Vladimir S Trajkovic: *Photodynamic antibacterial effect of graphene quantum dots*. Biomaterials 03/2014; 35(15). DOI:10.1016/j.biomaterials.2014.02.014
- D. Kević, **Z. Markovic**, D. Tošić, I. Holclajtner Antunović, B. Adnadjević, J. Prekodravac, D. Kleut, Miroslav D Dramicanin, B. Todorović Marković: *Surface modification of single-wall carbon nanotube thin films irradiated by microwaves: A Raman spectroscopy study*. Physica Scripta 11/2013; T157. DOI:10.1088/0031-8949/2013/T157/014040
- D.N. Kleut, Z.M. **Markovic**, B M Babić, I. D. Holclajtner Antunovic, M. S. Milosavljević, Miroslav D Dramicanin, B. M. Todorović Marković: *Raman spectroscopy study of carbon-doped resorcinol-formaldehyde thin films*. Physica Scripta 11/2013; T157. DOI:10.1088/0031-8949/2013/T157/014039
- D. Kević, **Z. Markovic**, D. Tošić, I. Holclajtner Antunović, B. Adnadjević, J. Prekodravac, D. Kleut, M. Dramićanin, B. Todorović Marković: *Surface modification of single wall carbon nanotube thin films by microwaves: a Raman spectroscopy study*. Physica Scripta 11/2013; T157.
- Ştefan Țălu, **Zoran Markovic**, Sebastian Stach, B. Todorović Marković, Mihai Țălu: *Multifractal characterization of single wall carbon nanotube thin films surface upon exposure to optical parametric oscillator laser irradiation*. Applied Surface Science 10/2013; 289. DOI:10.1016/j.apsusc.2013.10.114
- Dragana D. Tomic, **Zoran M. Markovic**, Svetlana P. Jovanovic, Momir S. Milosavljevic, Biljana Todorovic-Markovic: *Comparative analysis of different methods for graphene nanoribbon synthesis*. Hemijska industrija 01/2013; 67(1). DOI:10.2298/HEMIND120403056T
- Biljana M. Todorović-Marković, Dragana D. Tošić, **Zoran M. Markovic**, Svetlana P. Jovanović, Momir S. Milosavljević: *Comparative analysis of different methods for graphene nanoribbon synthesis*. Hemijska industrija 01/2013; 67(1).
- Z. Markovic**, S. Jovanović, B. Todorović Marković: *Structural properties of gamma and laser irradiated carbon nanotubes*.
- Z. Marković**, D. Kević, I. Holclajtner Antunovic, M. Nikolić, M. Dramićanin, M. Marinović Cincović, B. Todorović Marković: *Raman study of single wall carbon nanotube thin films treated by laser irradiation and dynamic and isothermal oxidation*. Journal of Raman Spectroscopy 10/2012; 43(10). DOI:10.1002/jrs.4077
- D Kleut, S Jovanović, **Z Markovic**, D Kević, D Tošić, N Romčević, M Marinović-Cincović, M Dramićanin, I Holclajtner-Antunović, V Pavlović, G Dražić, M Milosavljević, B Todorović Marković: *Comparison of structural properties of pristine and gamma irradiated single-wall carbon nanotubes: Effects of medium and irradiation dose*. Materials Characterization 10/2012; 72. DOI:10.1016/j.matchar.2012.07.002
- Z. Markovic**, S. Jovanovic, B. Todorovic Markovic: *Surface chemical modification of fullerene based colloids*. Handbook on Fullerene: Synthesis, Properties and Applications Ed. R. F. Verner, C. Benvegna, (2012) 505-516. ISBN 978-1-62100-429-5 © 2012 Nova Science Publishers, Inc

- D. Tošić, Z. **Markovic**, M. Dramićanin, I. Holclajtner Antunovic, S. Jovanović, M. Milosavljević, J. Pantić, B. Todorović Marković: *Gamma ray assisted fabrication of fluorescent oligographene nanoribbons*. Materials Research Bulletin 08/2012; 47(8). DOI:10.1016/j.materresbull.2012.04.012
- Zoran M Markovic**, Biljana Z Ristic, Katarina M Arsikin, Djordje G Klisic, Ljubica M Harhaji-Trajkovic, Biljana M Todorovic-Markovic, Dejan P Kepic, Tamara K Kravic-Stevovic, Svetlana P Jovanovic, Marina M Milenkovic, Dusan D Milivojevic, Vladimir Z Bumbasirevic, Miroslav D Dramicanin, Vladimir S Trajkovic: *Graphene quantum dots as autophagy-inducing photodynamic agents*. Biomaterials 07/2012; 33(29). DOI:10.1016/j.biomaterials.2012.06.060
- Z.M. **Markovic**, B.M. Babić, M.D. Dramićanin, I.D. Holclajtner Antunović, V.B. Pavlović, D.B. Peruško, B.M. Todorović Marković: *Preparation of highly conductive carbon cryogel based on pristine graphene*. Synthetic Metals 06/2012; 162(s 9–10). DOI:10.1016/j.synthmet.2012.03.019
- D. Kepic, Z. **Markovic**, I. Holclajtnerantunovic, M. Nikolic, M. Dramicanin, M. Marinovic Cincovic, B. Todorovic Markovic: *OPO laser light absorption and evolutionary behaviour of SWCNT thin films*. Journal of Optoelectronics and Advanced Materials 01/2012; 14(1-2).
- Zoran M Markovic**, Ljubica M Harhaji-Trajkovic, Biljana M Todorovic-Markovic, Dejan P Kepić, Katarina M Arsikin, Svetlana P Jovanović, Aleksandar C Pantovic, Miroslav D Dramićanin, Vladimir S Trajkovic: *In vitro comparison of the photothermal anticancer activity of graphene nanoparticles and carbon nanotubes*. Biomaterials 11/2011; 32(4). DOI:10.1016/j.biomaterials.2010.10.030
- Svetlana P. Jovanovic, **Zoran M. Markovic**, Duska N. Kleut, Dragana D. Totic, Dejan P. Kepic, Milena Marinovic-Cincovic, Ivanka Holclajtner-Antunovic, Biljana Todorovic-Markovic: *Covalent modification of single wall carbon nanotubes upon gamma irradiation in aqueous media*. Hemijska industrija 09/2011; 65(5). DOI:10.2298/HEMIND110531050J
- Zoran M. Markovic**, Davor B. Perusko, Dragana D. Totic, Nebojsa Z. Romcevic, Miroslav D. Dramicanin, Zoran M. Nikolic, Todorovic Markovic: *The effect of oxidation on structural and electrical properties of single wall carbon nanotubes*. Hemijska industrija 07/2011; 65(4). DOI:10.2298/HEMIND110221024M
- B.T. Marković, Z. **Markovic**: *Structural modification of single wall carbon nanotubes by gamma irradiation*. Fourier Transform Infrared Spectroscopy, (2010) pp. 195-204. Ed: Oliver J. Rees ISBN 978-1-61668-835-6 © 2010 Nova Science Publishers, Inc
- Biljana M. Todorović-Marković, Svetlana P. Jovanović, **Zoran M. Marković**, Duška N. Kleut, Dragana D. Tošić, Dejan P. Kepić, Milena T. Marinović-Cincović, Ivanka D. Holclajtner-Antunović: *Covalent modification of single wall carbon nanotubes upon gamma irradiation in aqueous media*. Hemijska industrija 01/2011; 65(5).
- Z.M. **Markovic**, D.B. Peruško, D.D. Tošić, N.Z. Romčević, M.D. Dramićanin, Z.M. Nikolić, B.M. Todorović-Marković: *The effect of oxidation on structural and electrical properties of single wall carbon nanotubes*. Hemijska industrija 01/2011; 65(4).

- Božana Čolović, B. Todorović-Marković, Z. **Marković**, D. Marković, M. Plavšić, V. Jokanović: *Nucleation of calcium hydroxyapatite thin films from simulated body fluid*. Surface Engineering 10/2010; 26(7). DOI:10.1179/174329409X439005
- Andreja Trpkovic, Biljana Todorovic-Markovic, Duska Kleut, Maja Misirkic, Kristina Janjetovic, Ljubica Vucicevic, Aleksandar Pantovic, Svetlana Jovanovic, Miroslav Dramicanin, **Zoran Markovic**, Vladimir Trajkovic: *Oxidative stress-mediated hemolytic activity of solvent exchange-prepared fullerene (C-60) nanoparticles*. Nanotechnology 09/2010; 21(37). DOI:10.1088/0957-4484/21/37/375102
- SVETLANA P. JOVANOVIĆ, **ZORAN M. MARKOVIĆ**, DUŠKA N. KLEUT, VLADIMIR D. TRAJKOVIĆ, BRANKA S. BABIĆ-STOJIĆ, MIROSLAV D. DRAMIĆANIN, BILJANA M. TODOROVIĆ MARKOVIĆ: *Singlet oxygen generation by higher fullerene-based colloids*. Journal of the Serbian Chemical Society 07/2010; 75(7). DOI:10.2298/JSC090617062J
- S P Jovanović, Z M **Markovic**, D N Kleut, N Z Romcević, V S Trajković, M D Dramićanin, B M Todorović Marković: *A novel method for the functionalization of γ -irradiated single wall carbon nanotubes with DNA*. Nanotechnology 11/2009; 20(44). DOI:10.1088/0957-4484/20/44/445602
- Nevena S Zogovic, Nadezda S Nikolic, Sanja D Vranjes-Djuric, Ljubica M Harhaji, Ljubica M Vucicevic, Kristina D Janjetovic, Maja S Misirkic, Biljana M Todorovic-Markovic, **Zoran M Markovic**, Slobodan K Milonjic, Vladimir S Trajkovic: *Opposite effects of nanocrystalline fullerene (C60) on tumour cell growth in vitro and in vivo and a possible role of immunosuppression in the cancer-promoting activity of C60*. Biomaterials 09/2009; 30(36). DOI:10.1016/j.biomaterials.2009.09.007
- Z. **Marković**, S. Jovanović, D. Kleut, N. Romčević, V. Jokanović, V. Trajković, B. Todorović-Marković: *Comparative study on modification of single wall carbon nanotubes by sodium dodecylbenzene sulfonate and melamine sulfonate superplasticiser*. Applied Surface Science 04/2009; 255(12). DOI:10.1016/j.apsusc.2009.02.016
- Maja S Misirkic, Biljana M Todorovic-Markovic, Ljubica M Vucicevic, Kristina D Janjetovic, Vukoman R Jokanovic, Miroslav D Dramicanin, **Zoran M Markovic**, Vladimir S Trajkovic: *The protection of cells from nitric oxide-mediated apoptotic death by mechanochemically synthesized fullerene (C60) nanoparticles*. Biomaterials 03/2009; 30(12). DOI:10.1016/j.biomaterials.2009.01.023
- Vukoman Jokanović, B Jokanović, Biljana Todorović-Marković, **Zoran Marković**: *Synthesis and characterization of hydrothermally obtained colloidal pseudoboehmite/boehmite*. Journal of Optoelectronics and Advanced Materials 02/2009; 11(2).
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- M.S. Misirkic, B.M. Todorovic-Markovic, L.M. Vucicevic, K.D. Janjetovic, V.R. Jokanovic, M.D. Dramicanin, Z.M. **Markovic**, V.S. Trajkovic: *The protection of cells from nitric oxide-mediated apoptotic death by mechanochemically synthesized fullerene (C60) nanoparticles*. Biomaterials 01/2009; 30(12).
- Božana Čolović, Vukoman Jokanović, Biljana Todorović-Marković, **Zoran Markovic**: *AFM investigations of calcium hydroxyapatite thin films on the surface of thin silica films*. Journal of Optoelectronics and Advanced Materials 01/2009; 11(1).

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