

## **Mária Omastová, PhD., D.Sc.**

**Nationality:** Slovak

**Affiliation** Polymer Institute

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### **Work experience:**

**1995 -present:** senior research fellow, Polymer Institute (PI SAS), Bratislava; Slovakia

January **1994** - January **1995** - Post-doctoral stay at Institute of Polymer Research Dresden, Germany

**1993** - junior researcher, PI SAS

**1988 - 1992** - PhD. student, PI SAS

**1985** - study stay, Polymer Institute (PI SAS), Slovak Academy of Sciences, Bratislava, Slovakia

### **Research interests:**

- polymeric nanocomposites with nanofillers, carbon nanotubes, graphene, montmorillonite, preparation and properties, sensors and actuators
- conducting composites and blends, preparation and study of their properties (spectroscopic characterization, thermal ageing, stability, thermooxidation, etc. )
- conducting polymers, mechanism of the polymerization, and their characterization
- surface and interphase characterization of polymeric materials by X- ray photoelectron spectroscopy

### **Education and training:**

**M.Sc.** in physical chemistry, Slovak Technical University, Faculty of Chemical Technology, Bratislava, Slovakia, 1985

**Ph.D.** in macromolecular chemistry, Slovak Academy of Sciences, Bratislava, 1993. Ph.D. thesis "Synthesis of Polypyrrole on the Presence of Pyridinium Chlorochromate and Study of its Properties", supervisors: Prof. Milan Lazár, D.Sc, Dr. Stanislav Košina.

**D.Sc.** - Doctor of Sciences in macromolecular chemistry, Slovak Academy of Sciences, Bratislava, 2009.

### **Additional information:**

Total number of journal publications: 76 (70 CC)

Number of book chapters: 2

Number of citations: 1000+

Hirsch index 17

More than 120 oral and poster presentations in scientific conferences, 3 Slovak patents,

### **Awards:**

**1993** - winner of the competition the best paper of young scientist at PI SAS

**1994** - fellowship from Institute of Polymer Research, Dresden, Germany

**1996** - Award from Literature foundation, Slovak Republic for young scientists

**2001** – Award of the journal Chemical Papers for the best paper of the year 2001, "Polyaniline and Polypyrrole – Two Representatives of the Conducting Polymers"

**2005** - Award of the University Paris-7-Denis Diderot, invitation for one month stay

**2005** – Award of the American Chemical Society, short visit of 3 US Universities in the framework of the International Initiatives Program

**2010** – invited professor for one month stay at University Paris-7-Denis Diderot, France

**2011** – M. Omastova team was ranked in the category *excellent* by Academic Ranking and Rating Agency (ARRA, Slovakia) "*Identification of high scientific teams and their members in Slovak Academy of Sciences*"

### **Research projects in 2006-2011**

#### **Projects Coordination:**

Two projects of **VEGA agency** (Slovakia), at present *Electrically conducting polymeric nanocomposites with modified fillers*. Project No 2/0064/10. Duration 01/2010 – 12/2013.

Principal Investigator of projects:   Bilateral Slovak - German project: 3 ×  
  Bilateral Slovak –French project: 3 ×  
  Bilateral Slovak – Greek project: 1 ×  
  Bilateral Slovak – Czech project: 3 ×

Pproject **COST MP1003, ESNAM** – *European Scientific Network for Artificial Muscles*, Duration: 12/2010-12/2014, principal investigator for PI SAS.

#### **Participation in projects FP, CE:**

Co-worker in 7 RP EU project Nano-optical mechanical systems (NOMS). Licence number of project: Stage 1 CP-FP 228916-1. Duration: 09/2009 – 08/2012.

Principal investigator in Polymer Institute SAS in projects of Structural funds EU Centrum of Excellence MACHINA I (ITMS code 26240120007, Duration: 05/2009 – 04/2011), and Centrum of Excellence MACHINA II (ITMS code 26240120021, Duration: 04/2010 – 03/2012

#### **Other activities:**

- President of the Polymer division, Slovak Chemical Society
- President elect of the Slovak Chemical Society (2011-2012)
- Representative of Polymer Division, Slovak Chemical Society in European Polymer Federation
- Chairperson of the Organic chemistry and polymers section, Meetings of the Slovak and Czech Chemical Societies organized in 2001, 2003, 2005, 2007, 2011
- Chairperson of the 20<sup>th</sup> Bratislava International Conference on Macromolecules, **Advanced Polymeric Materials**, organized in June 2006, Bratislava, Slovakia
- Chairperson of the conference EUROFILLERS 2013, August 2013, Bratislava <http://www.eurofillers2013.sav.sk/>
- Member of Editorial board of Chemical Papers and ChemZi