

PERSONAL INFORMATION

Daniela IVANOV



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WORK EXPERIENCE

2010–Present

Research scientist

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Iasi (Romania)

- design, elaboration, characterization of polymer-based structures with application in medicine;
- experimental and computational studies of different organic chemical reaction and physical interaction mechanisms;
- scientific papers; conferences; projects

2008–2010

Visiting research assistant professor

University of Illinois at Chicago, Chemistry Department, Chicago (United States)

- documentation
- design, elaboration, characterization of polymer-based structures with biomedical application;
- experimental and computational studies of different organic chemical reaction and physical interaction mechanisms;
- scientific reports.

1999–2008

Research Scientist

"Petru Poni" Institute of Macromolecular Chemistry, Iasi (Romania)

- documentation;
- design, preparation, characterization of polymer-based materials with applications in medicine and cultural heritage;
- experimental and computational studies of different organic chemical reaction and physical interaction mechanisms;
- scientific papers; conferences; projects

1995–1999

Research Assistant

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Iasi (Romania)

- documentation;
- chemical synthesis and characterization;
- scientific papers; projects.

EDUCATION AND TRAINING

2012–2014

MSc in Medical Bioengineering

Grigore T. Popa University of Medicine and Pharmacy, Faculty of Medical Bioengineering, Iasi (Romania)

metabolites; microbiology; immunology; cell and tissue biology; genetics and pharmacogenetics; tissue engineering; biocompatibility; medical ethics; biosensors; drug design.

2008–2010 post-doctoral position

University of Illinois at Chicago, Chemistry Department, Chicago (United States)

- protocols design and evaluation of photopolymerized injectable hydrogels for dermal, bone and cartilage tissue engineering applications;
- scientific reports.

2004 PhD in Chemistry

Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering, Iasi (Romania)

- design, preparation, characterization of polymer-based materials;
- experimental and computational studies of different organic chemical reaction and physical interaction mechanisms;
- scientific papers

1992 Diploma Engineer in Chemistry

Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering, Iasi (Romania)

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages - Self-assessment grid

Communication skills

- Excellent communication skills and integration in working teams; dynamic and sociable;
- Intercultural skills: good ability to adapt to multicultural environments, gained through my work experience in SUA;
- Chairman at different international conferences.

Organisational / managerial skills

- Good organization skills gained in project teams and post-doc research assistant professor;
- Member in Organizing/Scientific Committee of different international conferences.

Job-related skills

- Experimental skills: biological evaluation and characterization of polymeric biomaterials for medical applications; characterization and evaluation of cultural heritage objects for preservation;
- Learning skills: I kept permanent learning in order to broaden the knowledge and understanding in my scientific fields of interest.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving

Proficient user	Proficient user	Independent user	Proficient user	Proficient user
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Digital skills - Self-assessment grid

- good command of office suite (word, presentation software);
- good command of photo editing

ADDITIONAL INFORMATION

Publications

selective papers:

- M. C. Corobea, O. Muhulet, F. Miculescu, I. V. Antoniac, Z. Vuluga, D. Florea, D. M. Vuluga, M. Butnaru, **D. Ivanov**, S. I. Voicu, V. K. Thakur, Novel Nanocomposite Membranes from Cellulose Acetate and Clay-Silica Nanowires, *Polym. Adv. Technol.*, 27(12), 1586-1595 (2016)
- N. Vornicu, V. Deselnicu, C. Bibire, **D. Ivanov**, F. Doroftei, Analytical Techniques Used for the Characterization and Authentification of Six Ancient Religious Manuscripts (XVIII–XIX Centuries), *Microsc. Res. Tech.*, 78:70–84 (2015)
- **D. Ivanov**, A. Neamtu Molecular Dynamic Evaluation of Hyaluronan Interactions with Dimethylsilanediol in Aqueous Solution, *Rev. Roum. Chim.*, (Dedicated to Professor Bogdan C. Simionescu) 58(2-3), 229-238 (2013)
- N. Vornicu, C. Bibire, E. Murariu, **D. Ivanov** Analysis of mural paintings using in situ non-invasive XRF, FTIR spectroscopy and optical microscopy, *X-Ray Spectrometry*, 42(5), 380–387 (2013)
- B.C. Simionescu, A. Neamtu, C. Balhui, M. Danciu, **D. Ivanov**, G. David. Macroporous structures based on biodegradable polymers-candidates for biomedical application. *J Biomed Mater Res A.*, 101 (9) 2689-2698 (2013)
- **D. Ivanov**, D. Maftai, M. Constantinescu. Maleamic Acids Cyclodehydration with Anhydrides. DFT Study in the gas phase and solution, *Rev. Roum. Chim.*, 56 (2), 89-95 (2011)
- R. M. Moriarty, S. Tyagi, **D. Ivanov**, M. Constantinescu The Mechanism of 1,4 Alkyl Group Migration in Hypervalent Halonium Ylides. The Stereochemical Course, *J. Am. Chem. Sci.*, 130, 7564–7565 (2008)
- M. Constantinescu, **D. Ivanov** Computational Study of Maleamic acid Cyclodehydration with Acetic Anhydride, *Int. J. Quant. Chem.*, 106 (6) 1330-1337 (2006)
- **D. Ivanov**, C. Găină, C. Grigoraş Polymaleamide-Polymaleimide Networks, *J. Appl. Polym. Sci.*, 91 (2), 779-788 (2004)
- **D. Ivanov**, M. Constantinescu. Computational Study of Maleamic Acid Cyclodehydration, *J. Phys. Org. Chem.*, 16, 348 (2003)

Publications

book chapters:

- **Daniela Ivanov**, Iulian Vasile Antoniac. Biomimetic and Smart Biomaterials for Orthopedic Applications: More than the Sum of Their Components. In: *Smart Materials. Integrated Design, Engineering Approaches, and Potential Applications*, A. Filimon Ed., Apple Academic Press Inc., CRC Press - Taylor & Francis Group, 2018, 353-395.
- B. C. Simionescu, **D. Ivanov** Natural and Synthetic Polymers for Designing Composite Materials. In: *Handbook of Bioceramics and Biocomposites*, I. V. Antoniac Ed., Springer International Publishing Switzerland, 2016, 233-286
- **D. Ivanov** Hyaluronic Acid Based Biomaterials. In: *Encyclopedia of Biomedical Polymers and Polymeric Biomaterials*, Munmaya K. Mishra Ed., Taylor & Francis: New York, Published online: 04 Dec 2015; 3743-3759.

Conferences

- D. Ivanov** Biodegradable bone plates – fixation or future direction? *7th International Conference "Biomaterials, Tissue Engineering & Medical Devices" BiomMedD'2016*, September 15-17-th, Constanta, Romania, **2016**
- D. Ivanov** Hyaluronic acid supplementation in osteoarthritis – price and prejudice *First European Conference on Orthopedic Biomaterials ECOB 2015*, October 21-22nd 2015 Bucharest, Romania, **2015**
- D. Ivanov** Biologically inspired composites: more than the sum of its components *6th International Conference "International Seminar on Biomaterials & Regenerative Medicine" BIOREMED 2015*,

September 17-19th 2015, Oradea, Romania, **2015**

D. Ivanov. Hyaluronic Acid in Orthopedics *6th International Conference "Biomaterials, Tissue Engineering & Medical Devices" BiomMedD'2014*, Constanta, Romania, Sept 17-20th, **2014**

D. Ivanov. Hyaluronan – from structural simplicity to biomedical applications diversity (*Keynote Lecture*) *11th Conference on Colloid and Surface Chemistry*, Iasi, Romania, May 9-11th, **2013**

Projects

- 2012-2015 "Biologically inspired systems for engineered structural and functional entities" PNII-ID-PCCE-2011-2-0028, CNCS/UEFISCDI, – member; 6,999,150 lei;
- 2008-2011 "Researches regarding the expertise of conservation state of cultural heritage objects using non-destructive modern techniques and obtaining/evaluation of new materials for active conservation" - MILAD, PC 92-084/2008, PNCDI; supported by the Educational and Research Minister – partner director; 2,000,000 lei;
- 2007-2010 „Modern interventional system of designing and rapid achieving of the footwear for locomotory deficiency and profilaxy of foot disorders”, PNII - BIOTECH, nr. 41-064/2007, (ICMPP partener) – member; 82,714 lei/ 2008.
- 2006-2008 „Advanced biocomposites based on new systems of reinforced monomers with nanoparticles and glass fibers with dental applications” CEEX C2/MATNANTECH (ICMPP partener) – member; 10,000 lei/2006;
- 2005-2008 "Nanomaterials and New Adhesives with High Performance Applications in Medicine", CEEX C2/MATNANTECH, PNCDI "P. Poni" Institute Iasi, in collaboration with "Raluca Ripan" Institute Cluj-Napoca, - member; 70,000 lei/2005; 50.000 lei/2006;
- 2002-2004 "Electron-Conducting Polymers", supported by the Educational and Research Minister – member;
- 2000-2002 "Syntheses of Thermostable Polymers with Special Properties", ORIZONT Project supported by a National Research Program – member; 5,000 lei/2000; 6,000 lei/2001; 1,700 lei/2002;
- 1999-2002 "Theoretical and Experimental Studies Concerning the Dynamic of Viscoelastic Fluids", nr. 6182/25.X. 2000, supported by the Educational and Research Minister – member; 3,000 lei/2000; 2870 lei/2001.

Memberships

Romanian Society for Biomaterials
Romanian Society of Rheology
Romanian Society of Chemistry