



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Mircea Teodorescu**
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E-mail mirceat@tsocm.pub.ro ; savamircea@yahoo.com
Nationality Romanian
Date of birth June 10, 1957
Gender Male

Work experience

Dates **October 1984 - present**
Occupation or position held Research-Assistant (1984-1985) ; Assistant-Lecturer (1984-1991) ; Lecturer (1991-1995), Senior-Lecturer (1995-2000) ; Professor (2000-present)
Main activities and responsibilities Teaching and research
Name and address of employer Polytechnic University of Bucharest, 303 Splaiul Independentei, Bucharest, Romania
Type of business or sector University

Dates **October 2000 - September 2003**
Occupation or position held Part-time senior researcher
Main activities and responsibilities Contract-based research
Name and address of employer INCDCP-ICECHIM, 202 Splaiul Independentei, Bucharest, Romania
Type of business or sector Research

Dates **September 1982 – September 1984**
Occupation or position held Process engineer
Main activities and responsibilities production
Name and address of employer Danubiana Tire Enterprise, Bucharest, Romania
Type of business or sector Industry

Education and training

Dates **February 1998 – January 2000**
Title of qualification awarded Postdoctoral stage
Principal subjects/occupational skills covered Training in controlled/"living" radical polymerization, mostly atom transfer radical polymerization
Name and type of organisation providing education and training Carnegie Mellon University, Pittsburgh, PA, U.S.A.

Dates **May 1996 – June 1996**
Title of qualification awarded training
Principal subjects/occupational skills covered Training in controlled/"living" radical polymerization using stable radicals centred at the carbon atom
Name and type of organisation providing education and training Lancaster University, Lancaster, U.K.

Dates October 1993 – September 1994
 Title of qualification awarded Postdoctoral stage
 Principal subjects/occupational skills covered Training in cationic polymerization of vinyl monomers
 Name and type of organisation providing education and training Carnegie Mellon University, Pittsburgh, PA, U.S.A.

Dates September 1985 – November 1992
 Title of qualification awarded Ph. D. in Polymer Chemistry and Technology
 Principal subjects/occupational skills covered Thesis title: Synthesis of macromers
 Name and type of organisation providing education and training Polytechnic Institute of Bucharest, Bucharest, Romania

Dates September 1977 – July 1982
 Title of qualification awarded Chemical Engineer
 Principal subjects/occupational skills covered Polymer Chemistry and Technology
 Name and type of organisation providing education and training Polytechnic Institute of Bucharest, Bucharest, Romania

Personal skills and competences

Mother tongue(s) Romanian

Other language(s) English ; French

Self-assessment
European level ()*

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	A2	Basic User

(*) *Common European Framework of Reference for Languages*

Social skills and competences Very good social skills, very good in cooperation with co-workers and other staff

Organisational skills and competences Good organizational skills, very good manager, competent team leader

Technical skills and competences Practiced in the synthesis and purification of organic compounds. Performed anionic polymerization of styrene, isoprene and ethylene oxide, cationic polymerization of styrene and vinyl ethers, ring-opening polymerization of cycloolefins, conventional free radical, atom transfer radical and RAFT polymerizations, reactions on polymers. Experienced in utilizing Schlenk, dry box and high vacuum techniques, as well as ¹H and ¹³C NMR, IR, UV-VIS, DSC, TGA, gas chromatography, gel permeation chromatography, rheometry, Ubbelohde viscometry, manual titrations, etc.

Computer skills and competences Good computer skills (Microsoft Word, Power Point, ChemDraw, KaleidaGraph)

Driving licence B

Additional information

Research interests: synthesis and characterization of hydrogels and thermosensitive polymers; synthesis and applications of terminally reactive oligomers; controlled/"living" radical polymerization; polymeric materials with controlled structure: block and graft copolymers.

Editorships: Member of the editorial board - *Materiale Plastice* (Bucharest); Former editor for polymers and macromolecules – *Central European Journal of Chemistry* (2001-2014); reviewer to many Romanian and foreign ISI scientific journals

Memberships: Romanian Chemical Society; American Chemical Society

Grants and contracts: 8 multiannual Romanian grants and 10 industrial contracts (2 of them with foreign companies) as a project director

Publications: co-author of a book on synthesis and applications of macromonomers (Ed. Tehnica, Bucharest, 1991) and of an English – Romanian dictionary of chemistry and chemical industry (Ed. Tehnica, Bucharest, 1999); 3 book chapters; 98 peer-reviewed scientific papers; 6 patents.

Hirsch index: 17 (Scopus); 15 (ISI Web of knowledge)

Annexes

List of selected scientific papers

Annex 1. List of selected scientific papers

1. G. Toader, E. Rusen, M. Teodorescu, A. Diacon, P. O. Stanescu, C. Damian, T. Rotariu, A. Rotariu, "New polyurea MWCNTs nanocomposite films with enhanced mechanical properties", *J. Appl. Polym. Sci.* 134(28), art. no. APP.45061 (2017)
2. I. Chiulan, D. M. Panaitescu, A. N. Frone, M. Teodorescu, C. A. Nicolae, A. Casarica, V. Tofan, A. Salageanu, "Biocompatible polyhydroxyalkanoates/ bacterial cellulose composites: preparation, characterization, and in vitro evaluation", *J. Biomedical Materials Research-Part A* 104(10), 2576-2584 (2016)
3. G. Turturică, M. Andrei, P. O. Stănescu, C. Drăghici, D. M. Vuluga, A. Zaharia, A. Sârbu, M. Teodorescu, "ABA triblock copolymers of poly(N-isopropylacrylamide-co-5,6-benzo-2-methylene -1,3-dioxepane) (A) and poly(ethylene glycol) (B): synthesis and thermogelation and degradation properties in aqueous solutions", *Colloid & Polymer Science* 294(4), 743-753 (2016)
4. A. Zaharia, F. X. Perrin, M. Teodorescu, A. L. Radu, T. V. Iordache, A. M. Florea, D. Donescu, A. Sarbu, "New organophilic kaolin clays based on single-point grafted 3-aminopropyl dimethylethoxysilane", *Physical Chemistry Chemical Physics* 17, 24908-24915 (2015)
5. M. Teodorescu, M. Andrei, G. Turturic , P. O. Stanescu, A. Zaharia, A. Sârbu, "Novel thermoreversible injectable hydrogel formulations based on sodium alginate and poly(N-isopropylacrylamide)", *International Journal of Polymeric Materials and Polymeric Biomaterials* 64(15), 763-771 (2015)
6. A. Zaharia, A. Sarbu, A.L. Radu, K. Jankova, A. Daugaard, S. Hvilsted, F. X. Perrin, M. Teodorescu, C. Munteanu, V. Fruth-Oprisan, "Preparation and characterization of polyacrylamide-modified kaolinite containing poly(acrylic acid-co-methylene bisacrylamide) nanocomposite hydrogels", *Applied Clay Science* 103, 46-54 (2015)
7. A. Anghelache, M. Teodorescu, P. O. Stanescu, C. Draghici, D. M. Vuluga, "Novel crosslinked thermoresponsive hydrogels with controlled poly(ethylene glycol) - poly(propylene glycol) multiblock copolymer structure", *Colloid & Polymer Science* 292(4), 829-838 (2014)
8. I. Negru, M. Teodorescu, P. O. Stanescu, C. Draghici, A. Lungu, A. Sarbu, "Poly(N-isopropylacrylamide-co-N-t-butylacrylamide)-block-poly(ethylene glycol)-block-poly(N-isopropylacrylamide-co-N-t-butylacrylamide) triblock copolymers: synthesis and thermogelation properties of aqueous solutions", *Colloid & Polymer Science* 291(11), 2523-2532 (2013)
9. I. Negru, M. Teodorescu, P. O. Stanescu, C. Draghici, A. Lungu, A. Sarbu, "Thermogelation properties of ABA triblock copolymers of poly(ethylene glycol) (B) and copolyacrylates of oligo(ethylene glycol)s in aqueous solution", *Soft Materials* 11(2), 149-156 (2013)
10. B. Cursaru, M. Teodorescu, C. Boscornea, P. O. Stanescu, S. Stoleriu, "Drug absorption and release properties of crosslinked hydrogels based on diepoxy-terminated poly(ethylene glycol)s and aliphatic polyamines - a study on the effect of the gel molecular structure", *Materials Science and Engineering C* 33, 1307-1314 (2013)
11. M. Teodorescu, I. Negru, P. O. Stanescu, C. Draghici, A. Lungu, A. Sarbu, "Thermogelation properties of poly(N-isopropylacrylamide) - block-poly(ethylene glycol)-block-poly(N-isopropylacrylamide) triblock copolymer aqueous solutions", *React. Func. Polym.* 70, 790-797 (2010)
12. M. Teodorescu, B. Cursaru, P. O. Stanescu, "Swelling and diffusion characteristics of hydrogels synthesized from diepoxy- terminated poly(ethylene glycol)s and aliphatic polyamines", *Soft Materials* 8, 288-306 (2010)
13. M. Teodorescu, P. O. Stanescu, H. Iovu, C. Draghici, "Free radical polymerization of vinyl acetate in the presence of liquid polysulfides", *React. Func. Polym.* 70, 419-425 (2010)
14. M. Teodorescu, A. Lungu, P.O. Stanescu, C. Neamtu, "Preparation and properties of novel slow-release NPK agrochemical formulations based on poly(acrylic acid) hydrogels and liquid fertilizers", *Ind. Eng. Chem. Res.* 48, 6527-6534 (2009)
15. M. Teodorescu, B. Cursaru, P. Stanescu, C. Draghici, N. D. Stanciu, D. M. Vuluga, "Novel hydrogels from diepoxy-terminated poly(ethylene glycol)s and aliphatic primary diamines: synthesis and equilibrium swelling studies", *Polym. Adv. Technol.* 20, 907-915 (2009)
16. M. Teodorescu, C. Mindru, C. Draghici, "Synthesis of poly(methyl methacrylate-co-styrene)-block-polysulfide- block-poly(methyl methacrylate-co-styrene) copolymers by free radical polymerization combined with oxidative coupling", *Eur. Polym. J.* 42, 2247-2253 (2006)
17. M. Teodorescu, M. Dimonie, C. Draghici, S. Serban, G. Vasilievici, M. Colesa, "Grafting styrene onto poly(vinyl acetate) by free radical chain transfer reactions", *React. Func. Polym.* 61, 387-395 (2004)
18. M. Teodorescu, M. Dimonie, C. Draghici, G. Vasilievici, "Poly(ethylene oxide)-block-polystyrene copolymers obtained by radical polymerization involving chain-transfer processes", *Polym. Int.* 53, 1987-1993 (2004)
19. M. Teodorescu, "Free radical copolymerization of methyl methacrylate with styrene in the presence of 2-mercaptoethanol. II. Influence of methyl methacrylate/styrene ratio", *Eur. Polym. J.* 38, 841-846 (2002)

20. M. Teodorescu, "Synthesis of (vinyl acetate)-terminated polystyrene macromonomers by free-radical polymerization in the presence of vinyl iodoacetate", *Eur. Polym. J.* 37, 1417-1422 (2001)
21. M. Teodorescu, "Overview of controlled/"living" free radical polymerization", *Rev. Roum. Chim.* 46, 1073-1089 (2001)
22. K. Matyjaszewski, M. Teodorescu, P. J. Miller, M. L. Peterson, "Graft Copolymers of Polyethylene by Atom Transfer Radical Polymerization", *J. Polym. Sci.: A: Polym. Chem.* 38, 2440-2448 (2000)
23. M. Teodorescu, K. Matyjaszewski, "Controlled polymerization of (meth)acrylamides by atom transfer radical polymerization", *Macromol. Rapid Commun.* 21, 190-194 (2000)
24. M. Teodorescu, S. G. Gaynor, K. Matyjaszewski, "Halide anions as ligands in iron-mediated atom transfer radical polymerization", *Macromolecules* 33, 2335-2339 (2000)
25. H-j. Paik, M. Teodorescu, J. Xia, K. Matyjaszewski, "Block copolymerizations of vinyl acetate by combination of conventional and atom transfer radical polymerization", *Macromolecules* 32, 7023-7031 (1999)
26. M. Teodorescu, M. Dimonie, I. Cerchez, "Free-radical copolymerization of methyl methacrylate with styrene in the presence of 2-mercaptoethanol", *Eur. Polym. J.* 35, 247-252 (1999)
27. M. Teodorescu, K. Matyjaszewski, "Atom transfer radical polymerization of (meth)acrylamides", *Macromolecules* 32, 4826-4831 (1999)

Bucharest, October 16, 2017

Professor Dr. Mircea Teodorescu