

Mircea Teodorescu Professor

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Department Bioresources and Polymer Science



Contact information

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Education and training

Dates	Oct. 1985 – Dec. 1992
Title of qualification awarded	Ph. D.
Principal subjects/occupational skills covered	Polymer Chemistry and Technology
Name and type of organisation providing education and training	Polytechnic Institute of Bucharest
Level in national or international classification	
Dates	Sep. 1977 – July 1982
Title of qualification awarded	Chemical Engineer
Principal subjects/occupational skills covered	Technology of macromolecular compounds
Name and type of organization providing education and training	Polytechnic Institute of Bucharest

Professional experience

Dates	Oct 1984 - present
Occupation or position held	Research Assistant (1984-1985), Assistant-Lecturer (1985-1991), 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
Type of business or sector	Education and research
Dates	Oct 1993 – sept 1994
Occupation or position held	Postdoctoral research associate
Main activities and responsibilities	research
Name and address of employer	Carnegie Mellon University, Pittsburgh, U.S. A.
Type of business or sector	Education and research
Dates	Feb 1998 – Jan 2000
Occupation or position held	Postdoctoral research associate
Main activities and responsibilities	research
Name and address of employer	Carnegie Mellon University, Pittsburgh, U.S. A.
Type of business or sector	Education and research
Dates	June 2000 – sept 2003
Occupation or position held	Part-time Senior Researcher
Main activities and responsibilities	research
Name and address of employer	Chemical Research Institute – ICECHIM, Bucharest
Type of business or sector	Research

Dates	Sep 1982 – sept 1984
Occupation or position held	Process engineer
Main activities and responsibilities	production
Name and address of employer	“Danubiana” Tire Plant, Bucharest
Type of business or sector	Industry

Academic and research interests

- synthesis and applications of terminally reactive oligomers by free-radical (co)polymerizations;
- synthesis and applications of poly(ethylene glycol) telechelics and macromonomers;
- controlled/"living" radical polymerization;
- polymeric materials with controlled structure: block and graft copolymers;

Teaching activity

<i>Studies</i>	<i>The name of Programme</i>	<i>Code</i>	<i>Course title</i>	<i>Activity type</i>	
<i>Bachelor</i>	Polymer Science and Engineering	UPB.11.S.06.O.714	Technology of plastic materials synthesis	Course	
	Polymer Science and Engineering	UPB.11.S.07.O.705	Modern investigation methods for polymeric materials	Course	
<i>Master</i>	Polymer Science and Engineering	UPB.11.S.11.O.902	Terminally reactive oligomers	Course laboratory	+
	Life Sciences and Ecology	UPB.11.S.10.O.1311	Biopolymers	Course	

Publication (selective):

Books

1. M. Dimonie, M. Teodorescu, “Macromonomeri - sinteza si aplicatii”, Ed.Tehnica, Bucuresti, 1991.
2. R.Dobre, C. Cincu, M.Teodorescu, L. Dobrescu, “Dictionar de chimie si industrie chimica englez-roman”, Ed. Tehnica, Bucharest, 1999.

Articles

1. 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)
2. 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)
3. 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)
4. 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)
5. M. Teodorescu, K. Matyjaszewski, “Controlled polymerization of (meth)acrylamides by atom transfer radical polymerization”, *Macromol. Rapid Commun.* 21, 190-194 (2000)
6. M. Teodorescu, S. G. Gaynor, K. Matyjaszewski, “Halide anions as ligands in iron-mediated atom transfer radical polymerization”, *Macromolecules* 33, 2335-2339 (2000)
7. M. Teodorescu, K. Matyjaszewski, “Atom transfer radical polymerization of (meth)acrylamides”, *Macromolecules* 32, 4826-4831 (1999)

Research projects

- New hydrogels based on poly(ethylene glycol)s –IDEAS grant - director
- Telechelic co-oligomers with hydroxy end groups prepared by radical polymerization in the presence of chain transfer agents – ANSTI grant – director
- Macromonomers and graft copolymers obtained by radical polymerization in the presence of chain transfer agents - CNCSIS grant – director
- Phase transfer catalysts based on crosslinked poly(ethylene oxide)s – CNCSIS grant – director

Other information

EDITORIAL BOARDS

- Editor for polymers and macromolecules – Central European Journal of Chemistry
- Member of the editorial board - Materiale Plastice (Bucharest)

MEMBERSHIPS

- Romanian Chemical Society
- American Chemical Society

February 8, 2013