


PERSONAL INFORMATION



Bogdan C. Simionescu

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Sex Male | Date of birth 16/03/1948 | Nationality Romanian

WORK EXPERIENCE

May 2014 – present

Vice-President of Romanian Academy

Romanian Academy, Bucharest, Romania (www.academiaromana.ro/def2002eng.htm)
Management, research

August 2012 – May 2014

President of the Iasi Branch of Romanian Academy

Iasi Branch of Romanian Academy (<http://home.acadiasi.ro/en>)
Management

March 2000 – May 2014

Director of the “Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Institute of Excellence of the Romanian Academy

“Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy, Iasi (www.icmpp.ro/en)
Management, research and development

2000 – present

Head of the Laboratory of Polymeric Materials Physics

“Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy, Iasi

2000 – present

Senior researcher I

“Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy, Iasi

2017 – present

President of the National Council of Scientific Research (CNCS)

2003 – present

Director of “Polymers” Center of Excellence

“Gh. Asachi” Technical University of Iasi

2007 – present

Member of the European Academy of Sciences and Arts

2007 – present

Director of the Training and Interdisciplinary Research Platform

“High-performance polymer materials for medicine, pharmacy, microelectronics, energy storage/ information, environmental protection.” “Gh. Asachi” Technical University of Iasi

1992 – present

Professor

“Gh. Asachi” Technical University of Iasi (www.tuiasi.ro/en)

Teaching students, master students, research, head of department/centre of excellence, tutor of PhD students.

1991 – present	<p>PhD thesis coordinator “Gh. Asachi” Technical University of Iasi and “Petru Poni” Institute of Macromolecular Chemistry Iasi. Organic and macromolecular chemistry, physics polymer compounds, biomaterials, radical polymerization; plasma-induced polymerization; non-conventional polymerization; block and graft copolymers; functional polysiloxanes and siloxane copolymers; solutions of very high molecular weight polymers; solutions of macromolecular compounds; complex macromolecular architectures; multifunctional polymeric materials.</p>
2015 – 2016	Vice-president of the National Council of Scientific Research
2005 – 2010	Member of the National Council for Titles, Diplomas and Certificates (CNATDCU)
2011 – 2012	President of Panel I of CNATDCU
1996 – 2003	<p>Head of the Macromolecules Department “Gh. Asachi” Technical University of Iasi</p>
1994 – 2006	Adjunct Professor at the “Politehnica” University of Bucharest (Department of Engineering Sciences, Department of French-language)
1990 – 1992	<p>Associate Professor “Gh. Asachi” Technical University of Iasi (former Polytechnic Institute of Iasi)</p>
1978 - 1990	<p>Senior Lecturer Department of Organic and Macromolecular Chemistry, Polytechnic Institute of Iasi</p>
1971 – 1978	<p>Lecturer Department of Organic and Macromolecular Chemistry, Polytechnic Institute of Iasi</p>

EDUCATION AND TRAINING

January 1972 – June 1975	<p>Doctor in Chemical Sciences The Catholic University of Leuven, KU Leuven, Department of Organic and Macromolecular Chemistry, Leuven, Belgium Organic and macromolecular chemistry; polymer physics; physical chemistry of polymers</p>
1966 - 1971	<p>Chemical Engineer, Polymer Technology “Gh. Asachi” Polytechnic Institute of Iasi Inorganic chemistry, organic chemistry, macromolecular chemistry, analytical chemistry, physical chemistry, physics, mechanics, polymer physics, transfer phenomena, specific equipment in chemical engineering, semiconducting polymers, technical drawing.</p>

PERSONAL SKILLS

Mother tongue(s)	Romanian
Other language(s)	English, French, Ukrainian

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	C2	C2	C2	C2	C1
Ukrainian	B1	A2	B1	B1	A1

Communication skills Excellent communication skills earned by and due to many years of experience as various research groups coordinator; team spirit (has worked in/with different research teams, including international teams), adaptability.

Organisational / managerial skills High-level managerial skills are proven by the success of every lead institution/research team – the “Petru Poni” Institute of Macromolecular Chemistry, an institute of excellence of the Romanian Academy and among the first Romanian research/development units. The “Petru Poni” Institute of Macromolecular Chemistry was the only selected research/development Romanian unit “showing how infrastructure investment contributes to and is a catalyst for creating a research centre of excellence. The Centre of Advanced Research in Bionanoconjugates and Biopolymers – IntelCentre, a Department of the “Petru Poni” Institute of Macromolecular Chemistry (PPIMC) of the Romanian Academy, is an example of a successful project where Structural Funds (SF) investments have made great contributions to the foundation of a high-level research centre and opened up new funding opportunities from the FP7/H2020 as well as from national sources”.
 *Achievements of FP7 Examples that make us proud, EUNL2016, Ministry of Economic Affairs and Ministry of Education, Culture and Science, 2016, 78-81.
 *http://s3platform.jrc.ec.europa.eu/documents/20182/142587/S2E_RO_IntelCentre.pdf

Driving licence Category B

ADDITIONAL INFORMATION

Invited lecturer

- Czestochowa University, Czestochowa, Poland (March, May 2014)
- Rouen University, Rouen, France (May 2007)
- Angers University, Angers, France (June 2005)
- Polymer Chemistry Research Center, Zabrze, Poland (May and November 2005, November 2003, May 2001, June 2000, June 1999, June 1998)
- Montpellier-II University, LEMP/MAO, Montpellier, France (October 2001)
- Kyoto University, Kyoto, Japan (August 1988)
- Freiburg University, Freiburg, Germany (February 1996)
- Polymer Science Society, Japan (May 1996)
- Dunkerque University, Dunkerque, France (April, December 1995)
- École nationale supérieure des mines de Paris, CEMEF – Sophia Antipolis, France (August, September 1992)
- Mulhouse University, Mulhouse, France (April – June 1991)

Publications More than 370 scientific papers (more than 300 in ISI journals), books/book chapters in national/international editing houses.
 Relevant publications (2012 – present) (selected list):

- Prediction of the appropriate size of drug molecules that could be released by a pulsatile mechanism from pH/thermoresponsive microspheres obtained from preformed polymers
 G. Fundueanu, M. Constantin, I. Oanea, V. Harabagiu, P. Ascenzi, B. C. Simionescu
Acta Biomater., 8 (3), 1281-1289 (2012)
- Molecular level differentiation between end-capped and intramolecular azofunctional oligo(ϵ -caprolactone) positional isomers through liquid chromatography multistage mass spectrometry
 C. Peptu, O. F. Van Den Brink, V. Harabagiu, B. C. Simionescu, M. Kowalczyk, J. Silberring
J. Polym. Sci., Part A: Polym. Chem., 50 (12), 2421-2431 (2012)
- Effect of Cross-Linking Methods on Structure and Properties of Poly(ϵ -caprolactone) Stabilized Hydrogels Containing Biopolymers
 G. David, M. Cristea, C. Balhui, D. Timpu, F. Doroftei, B. C. Simionescu
Biomacromolecules, 13, 2263-2272 (2012)

- Imino-chitosan biodynamers
L. Marin, B. Simionescu, M. Barboiu
- *Chem. Commun.*, 48, 8778-8780 (2012)
- Effect of long-term and short-term dynamic mechanical evaluation of networks based on urethane and soybean oil
M. Cristea, D. Ionita, F. Doroftei, B. C. Simionescu
J. Mechanical Behavior Biomed. Mat., 17, 317-326 (2012)
- Oxidized cellulose - Survey of the most recent achievements
S. Coseri, G. Biliuta, B. C. Simionescu, K. Stana-Kleinschek, V. Ribitsch, V. Harabagiu
Carbohydr. Polym., 93 (1), 207-215 (2013)
- Macroporous structures based on biodegradable polymers - Candidates for biomedical application
B. C. Simionescu, A. Neamtu, C. Balhui, M. Danciu, D. Ivanov, G. David
J. Biomed. Mater. Res. - Part A, 101 A (9), 2689-2698 (2013)
- Antifungal vanillin-imino-chitosan biodynamic films
L. Marin, I. Stoica, M. Mares, V. Dinu, B. C. Simionescu, M. Barboiu
J. Mater. Chem. B, 1 (27), 3353-3358 (2013)
- The thermosensitivity of pH/thermosensitive microspheres activated by the electrostatic interaction of pH-sensitive units with a bioactive compound
G. Fundueanu, M. Constantin, I. Asmarandei, V. Harabagiu, P. Ascenzi, B. C. Simionescu
J. Biomed. Mater. Res. - Part A, 101 A (6), 1661-1669 (2013)
- Effects of chemical structure and chain end groups on the thermal stability of new silsesquioxanes with methacrylate and/or vinyl units
B. C. Simionescu, I. - E. Bordianu, N. Tudorachi, C. Cotofana, A. Coroaba, M. Drobot, M. Olaru
Mater. Chem. Phys., 139 (2-3), 719-733 (2013)
- Calcium Carbonate–Magnetite–Chondroitin Sulfate Composite Microparticles with Enhanced pH Stability and Superparamagnetic Properties
M. Mihai, V. Socoliuc, F. Doroftei, E. - L. Ursu, M. Aflori, L. Vekas, B. C. Simionescu
Cryst. Growth Des., 13 (8), 3535-3545 (2013)
- Novel luminescent phenothiazine-based Schiff bases with tuned morphology. Synthesis, structure, photophysical and thermotropic characterization
A. Zabulica, M. Balan, D. Belei, M. Sava, B. C. Simionescu, L. Marin
Dyes Pigments, 96 (3), 686-698 (2013)
- Poly(N-isopropylacrylamide-co-hydroxyethylacrylamide) thermosensitive microspheres: The size of microgels dictates the pulsatile release mechanism
G. Fundueanu, M. Constantin, I. Asmarandei, S. Bucatariu, V. Harabagiu, P. Ascenzi, B. C. Simionescu
Eur. J. Pharmaceutics Biopharmaceutics, 85 (3), 614-623 (2013)
- Poly(NIPAAm-co-beta-cyclodextrin) microgels with drug hosting and temperature-dependent delivery properties
M. Constantin, S. Bucatariu, P. Ascenzi, B. C. Simionescu, G. Fundueanu
React. Funct. Polym., 84, 1-9 (2014)
- Heparin-Anthranoil Conjugates Associated with Nanomagnetite Particles and Their Cytotoxic Effect on Cancer Cells
A. Durdureanu-Angheluta, C. M. Uritu, A. Coroaba, B. Minea, F. Doroftei, M. Calin, S. S. Maier, M. Pinteala, M. Simionescu, B. C. Simionescu
J. Biomed. Nanotechnol., 10 (1), 131-142 (2014)
- Calcium carbonate microparticle growth controlled by a conjugate drug-copolymer and crystallization time
F. Doroftei, M. D. Damaceanu, B. C. Simionescu, M. Mihai
Acta Cryst., B – Struct. Sci. Cryst. Eng. Mat., 70, 227-235, 2 (2014)
- Calcium Carbonate/Polymers Microparticles Tuned by Complementary Polyelectrolytes as Complex Macromolecular Templates
M. Mihai, S. Schwarz, F. Doroftei, B. C. Simionescu
Cryst. Growth Des., 14 (11), 6073-6083 (2014)
- Out-of-Water Constitutional Self-Organization of Chitosan-Cinnamaldehyde Dynagels
L. Marin, S. Moraru, M. -C. Popescu, A. Nicolescu, C. Zgardan, B. C. Simionescu, M. Barboiu
Chemistry – A Eur. J., 20 (16), 4814-4821 (2014)
- Multivalent Recognition of Concanavalin A by {Mo-132} Glyconanocapsules – Toward Biomimetic Hybrid Multilayers
M. Barboiu, Z. Moulina, M. Silion, E. Licsandru, B. C. Simionescu, E. Mahon, M. Pinteala
Chemistry – A Eur. J., 20 (22), 6678-6683 (2014)

- Polymer engineering for drug/gene delivery: from simple towards complex architectures and hybrid materials
G. David, G. Fundueanu, M. Pinteala, B. Minea, A. Dascalu, B. C. Simionescu
Pure Appl. Chem., 86 (11), 1621-1635 (2014)
- Highly Efficient Copper(II) Ion Sorbents Obtained by Calcium Carbonate Mineralization on Functionalized Cross-Linked Copolymers
M. Mihai, I. Bunia, F. Doroftei, C. D. Varganici, B. C. Simionescu
Chemistry – A Eur. J., 21 (13), 5220-5230 (2015)
- Imino-chitosan biopolymeric films. Obtaining, self-assembling, surface and antimicrobial properties
L. Marin, D. Ailincăi, M. Mares, E. Paslaru, M. Cristea, V. Nica, B. C. Simionescu
Carbohydr. Polym., 117 (1), 762-770 (2015)
- Dynameric Frameworks for DNA Transfection
L. Marin, D. Ailincăi, M. Cahn, D. Stan, C. A. Constantinescu, L. Ursu, F. Doroftei, M. Pinteala, B. C. Simionescu, M. Barboiu
ACS Biomaterials – Sci. & Eng., 2 (1), 104-111 (2016)
- Degradation Mechanism Induced by Psoriasis in Human Fingernails: A Different Approach
A. Coroaba, T. Pinteala, A. Chiriac, A. E. Chiriac, B. C. Simionescu, M. Pinteala
J. Investigative Dermatology, 136 (1), 311-313 (2016)
- Structure-Directed Functional Properties of Phenothiazine Brominated Dyes: Morphology and Photophysical and Electrochemical Properties
A. Bejan, S. Shova, M. D. Damaceanu, B. C. Simionescu, L. Marin
Cryst. Growth Des., 16 (7), 3716-3760 (2016)
- Dual crosslinked iminoboronate-chitosan hydrogels with strong antifungal activity against Candida planktonic yeasts and biofilms
D. Ailincăi, L. Marin, S. Morariu, M. Mares, A.-C. Bostanaru, M. Pinteala, B. C. Simionescu, M. Barboiu
Carbohydr. Polym., 152, 306-316 (2016)
- Superparamagnetic Composites Based on Ionic Resin Beads/CaCO₃/Magnetite
I. Bunia, V. Socoliuc, L. Vekas, F. Doroftei, C. Varganici, A. Coroaba, B. C. Simionescu, M. Mihai
Chemistry – A Eur. J., 22 (50), 18036-18044 (2016)
- Multi-analytical characterization of Cucuteni pottery
A. V. Oancea, G. Bodî, V. Nica, L. E. Ursu, M. Droboata, C. Cotofana, A. L. Vasiliu, B. C. Simionescu, M. Olaru
J. European Ceramic Soc., 37 (15), 5079-5098 (2017)
- Biopolymers/poly(epsilon-caprolactone)/polyethylenimine functionalized nano-hydroxyapatite hybrid cryogel: Synthesis, characterization and application in gene delivery
B. C. Simionescu, M. Droboata, D. Timpu, T. Vasiliu, C. A. Constantinescu, D. Rebleanu, M. Calin, G. David
Materials Sci. & Eng. C – Materials Biol. Appls., 8, 167-176 (2017)
- Novel cyclodextrin-based pH-sensitive supramolecular host-guest assembly for staining acidic cellular organelles
G. Pricope, E. L. Ursu, M. Sardaru, C. Cojocar, L. Clima, N. Marangoci, R. Danac, I. I. Mangalagiu, B. C. Simionescu, M. Pinteala, A. Rotaru
Polymer Chem., 9, 968-975 (2018)
- Squalene/polyethylenimine based non-viral vectors: synthesis and use in systems for sustained gene release
G. David, L. Clima, M. Calin, C. A. Constantinescu, M. Balan-Porcarasu, C. M. Uritu, B. C. Simionescu
Polymer Chem., 9, 1072-1081 (2018)

[The full list of publications is available here.](#)

Presentations

More than 250 invited lectures in Romania, Europe, the United States of America, Canada, Japan at national/international scientific meetings or following the invitations received from research/high education centres.

- Editorial activities**
- Member of the “Environmental Engineering and Management Journal” Editorial Board (2007 – present)
 - Member of the “Materiale Plastice” Editorial Board (2005 – present)
 - Member of the “Technical University of Iasi Bulletin” (2004 – present)
 - Member of the “Revue Roumaine de Chimie” Editorial Board (2001 – present)
 - Member of the European Association of Science Editors (1990 – present)
 - Scientific secretary of “Memoirs scientific sections of Romanian Academy” (1978 – present)
 - Member of the “Carbohydrate Polymers” Editorial Board (2004 – 2010)
 - Member of the “Synthetic Polymer Journal” Editorial board (1992 – 1996)

- Conferences organizer**
- Organizer and co-organizer of numerous relevant national and international congresses (including 12 France – Romania Seminars on Polymer Science and 9 editions of “Cristofor I. Simionescu” - Frontiers in Macromolecular and Supramolecular Science International Congress held both in Iasi and Bucharest – the most important Romanian symposium in polymer/supramolecular science, a symposium that hosted 3 invited Nobel Prize laureates)

- Projects**
- Romanian coordinator of international projects supported by the EC (FP 4, FP 5, FP 6 and FP 7)
 - Romanian director of more than 20 bilateral international projects (N.S.F. a.s.o.)
 - Coordinator of more than 30 national grants

- Honours and awards**
- Doctor Honoris Causa of “Dunarea de Jos” University of Galati, 2017
 - Doctor Honoris Causa of Polytechnic University, Bucharest, 2016
 - Doctor Honoris Causa of “Vasile Goldis” West University of Arad 2016
 - “Steaua Romaniei” National Order – Knight, 2015
 - “Cristofor Simionescu” Medal for Excellence in Macromolecular Chemistry of the American Chemical Society in association with Romanian International Chapter, 2015
 - Honorary Citizen of Dumbraveni/Suceava, 2014
 - Honorary Citizen of Iasi, 2013
 - Romanian Academy Prize, 1985

- Memberships**
- President of the National Council of Scientific Research (April 2017 – present)
 - A selected representative of Romania to European Polymer Federation (2011 – present)
 - Vice-president of the Romanian Chemical Society (2011 – present)
 - Vice-president of the National Council of Scientific Research (2015 – 2016)
 - President of the Iasi Branch of the Romanian Chemical Society (2005 – 2015)
 - Honorary President of the Iasi Branch of the Romanian Biomaterials Society (– 2011)
 - President of Central and East European Polymer Network (2006-2007)
 - Member of various scientific national societies
 - Expert reviewer of various international journals

Updated: March 2018