

Gheorghe NECHIFOR

Professor

University "POLITEHNICA" Bucharest
Faculty of Applied Chemistry and Materials Science
Department Analytical Chemistry and Environmental Engineering



Contact information

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Education and training

Dates	Dec. 1989 - Jan. 1996
Title of qualification awarded	Ph.D. in Chemical Engineering
Principal subjects/occupational skills covered	Separation and Concentration Processes by Selective Membranes, Ph.D. thesis adviser - Dr. Georgeta POPESCU
Name and type of organization providing education and training	University Babes-Bolyai of Cluj-Napoca, Physical - Chemistry Department
Level in national or international classification	
Dates	Oct. 1996- Jul. 1998
Title of qualification awarded	Academic Post University School "Petru SPACU"
Principal subjects/occupational skills covered	Analytical Control of the Environment Quality and Depollution Techniques, Research advisor: Prof. Dr. Doc. Constantin LUCA
Name and type of organization providing education and training	University POLITEHNICA of Bucharest, Faculty of Industrial Chemistry
Dates	Oct. 1980- Jun. 1985
Title of qualification awarded	Diplomat Engineer
Principal subjects/occupational skills covered	Organic Chemical Technology, Research advisor: Prof. Dr. Eng. Margareta AVRAM and Prof. Dr. Eng. Aurelia GHENCIULESCU
Name and type of organization providing education and training	University POLITEHNICA of Bucharest, Faculty of Chemical Technology

Professional experience

Dates	Sept. 1985- Sept. 1987
Occupation or position held	Engineer
Main activities and responsibilities	Cellulose fiber
Name and address of employer	Viscofil- Bucharest
Type of business or sector	Regenerated cellulose
Dates	Oct. 1986-Sept. 1988
Occupation or position held	Engineer
Main activities and responsibilities	Colloidal chemistry laboratory
Name and address of employer	Institute of Physical Chemistry, ICECHIM Bucharest
Type of business or sector	Membrane and membrane processes
Dates	Oct. 1988- present
Occupation or position held	Assistant (1990-1993) , lecturer (1993-1996), reader (1996-1999), professor (1999-present) and PhD supervisor (2004-present)
Main activities and responsibilities	Analytical Chemistry and Instrumental Analysis

Name and address of employer	laboratory University POLITEHNICA of Bucharest, Faculty of Applied Chemistry and Materials Sciences
Type of business or sector	Analytical Chemistry and Environmental Engineering

Academic and research interests

Teaching activity

<i>Studies</i>	<i>The name of Programme</i>	<i>Code</i>	<i>Course title</i>	<i>Activity type</i>
Master	<i>Analytical Environmental Control and Remediation Techniques</i>	UPB.11.01.O.10-01	<i>Analytical Control of Environmental Quality</i>	<i>courses and laboratory</i>
	<i>Analytical Environmental Control and Remediation Techniques</i>	UPB.11.01.O.10-05	<i>Sampling and sample preparation for analysis</i>	<i>courses and laboratory</i>
	<i>Analytical Environmental Control and Remediation Techniques</i>	UPB.11.02.A.10-14	<i>Polymeric membranes</i>	<i>courses</i>

Publication (selective):

Books

1. G. Nechifor, M.D. Barboiu, Materials, Membranes and Processes, Editura PRINTECH, Bucuresti, 2007 and 2009, ISBN 978-973-718 -771-0, pp. 221
2. Systems Membranes-complex roadmaps towards functional devices and coupled processes SYSMEM, Mihail Barboiu, Gheorghe Nechifor, Editura PRINTECH, Bucuresti, 2010, ISBN 978-606-521-526-9, pp. 330
3. Trends in membranology, Stefan Ioan Voicu, Gheorghe Nechifor, Editura PRINTECH, Bucuresti, 2010, ISBN 978-606-521-525-2, pp. 115

Patents

1. G. Nechifor, G. Popescu, N. Luca, M. Ionescu, M. Bianca, T. Rădulescu, Prepn. of microfiltration polymer membranes|by producing ether! sulphone soln. for film forming, and coagulation, RO103257/1993
2. G. Nechifor, G. Popescu, N. Luca, I. Iosif, T. Rădulescu, A. Poboran, Prodn. of membrane for mol. level sepn.|consists of prepn. of polyphenylene oxide soln. in polar solvents for coagulation, RO103258/1993
3. A.M. Nechifor, G. Nechifor, V. Pordea, G. Popescu, Cleaner for waste water contg. aromatic derivs. giving repeated cleaning|includes disperser for emulsifying which is connected to line housing static turbulence promoters whence the waste is passed into settler, RO108 420 /1996
4. A.M. Nechifor, G. Nechifor, M. Piso, G. Tutos, G. Pintilescu, Liquid membrane based gas and liquids mixture separator|consists of magnetite etc. particles membrane prepared in a relatively short time and adjustable, RO110 407/1996
5. N. Luca, G. Nechifor, A. M. Nechifor, T. Rădulescu, Prepn. of polysulphone asymmetric microporous membranes for filtration|by casting solution of polymer in dimethylformamide onto support and rinsing formed film in ethanol, RO111 548 B1/ 1997

Articles

1. Gheorghe Nechifor, G. Popescu, N. Luca, A. M. Nechifor, Obtaining of membranes by Chemical Reaction-Induced Phase Inversion, Revue Roumaine de Chimie 1994), 39(8), 885-890
2. G. Popescu, Gheorghe Nechifor, M. Olteanu, The Influence of Surfactants on the Wetting of Hydrophobic microporous Surfaces, Colloid and Surfaces A: Physicochemical and Engineering Aspects, (1994), 90, 1-8
3. C. Moldovan, R. Iosub, D. Dascălu, Gheorghe Nechifor, Anisotropic Etching of Silicon in a Complexant Redox Alkaline System, Sensors and Actuators B 58, (1999), 438-449.
4. Gheorghe Nechifor, S.I. Voicu, A.C. Nechifor, Garea, Nanostructured hybrid membrane polysulfone-carbon nanotubes for hemodialysis, Desalination, 241 (1-3), (2009), 342-348.

5. Ionut Zaharia, Ioana Diaconu, Elena Ruse, Gheorghe Nechifor, The transport of 3-aminophenol through bulk liquid membrane in the presence of aliquat 336, Digest Journal of Nanomaterials and Biostructures, 7(3), (2012), p. 1303 – 1314.

Research projects

- Inovative separations for the selective recycling of heavy metal ions and organics of biological interest, **INCO COPERNICUS**, nr ERB IC 15-CT98-0147; UPB-Romania, Barcelona, Montpellier, Varsovia, Bratislava, 1998-2002
- Polysulfone-polyaniline functional nanocomposites for bioanalysis and bioseparations (NANOBIOPAS), 71-025, 2007-2010
- Nanocomposites with electric and magnetic properties for high selective separative processes (NEMSEPSEL), 71-034, 2007-2010

Member of the research team in other 50 research projects.

Other information

Organization of international scientific meetings

- Romanian International Conference on Chemistry and Chemical Engineering-RICCCCE, 2001, 2003 Romania
- Honorary Symposiun Constantin LUCA, 2007, 2009, 2011, Sinaia , Romania,
- Symposium of Colloid and Surface Chemistry, Timisoara, 1993, 1995, Bucuresti 1998, Galați, 2005
- 20 Ans de coopération franco-roumaine dans le domaine des membranes : axe Montpellier-Bucarest, 2010
- BRINCUSI Project France-Romania, University Montpellier II - Membrane European Institute –University POLITEHNICA of Bucharest, 2007-2009
- European Membrane Society- Summer School, Bucharest 14-20 june 2010

Memberships to Editorials Boards of International Journals

1. Journal of Membrane Science (reviewer)
2. Desalination (reviewer)
3. Polish Journal of Environmental Studies, (reviewer)
4. Natural Product Research, (reviewer)
5. Central European Journal of Chemistry, (reviewer)