

**Reviste de specialitate de circulație națională recunoscute de CNCIS. Se mentioneaza Categoria CNCIS.**

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AUTORII: S.I. VOICU, **A.C. NECHIFOR**, A.SARBU, C.L. NISTOR, G.NECHIFOR  
TITLU: *Chemically Modified Polymers. II. Chloromethylated polymers*  
REV.: Romanian Biological Sciences, 2006, Vol.IV, 1-2, p. 57-67, ISSN 1584-0158

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AUTORII: S.I. VOICU, **A.C. NECHIFOR**, C.L. NISTOR, A. SARBU, G.NECHIFOR  
TITLU: *Chemically Modified Polymers. I. Formilated aromatic polymers*  
REV.: *Romanian Biological Sciences*, 2006, Vol.IV, 1-2, p. 7-18, ISSN 1584-0158

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AUTORII: **A.C. Nechifor**, E. Andronescu, G-L. Radu, G.Nechifor  
TITLU: *MAGNETIC NANOCOMPOSITE PARTICLES. I. MAGNETIC NANOCOMPOSITE SUPPORT AS FERROFLUIDS*  
REV.: Romanian Biological Sciences, 2005, Vol.III, No.1-2, p. 13-24; ISSN 1584-0158

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AUTORII: **A.C. Nechifor**, E. Andronescu, G-L. Radu, G.Nechifor  
TITLU: *MAGNETIC NANOCOMPOSITE PARTICLES. II. NANOPARTICULE MAGNETICE COMPOZITE*  
REV.: Romanian Biological Sciences, 2005, Vol.III, No.1-2, p. 57-77; ISSN 1584-0158

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AUTORII: **A.C. Nechifor**, G-L. Radu, G.Nechifor  
TITLU: *MAGNETIC NANOCOMPOSITE PARTICLES. III. COMPLEXANT MAGNETIC NANOCOMPOSITE PARTICLES*  
REV.: *Romanian Biological Sciences*, 2005, Vol.III, No.3-4, p. 28-38; ISSN 1584-0158

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AUTORII: G.Nechifor, F.D. Balacianu, **A.C. Nechifor**  
TITLU: *MAGNETIC NANOCOMPOSITE PARTICLES. IV. ALKYLAMINOSILANISED MAGNETIC NANOPARTICLES*  
REV.: Romanian Biological Sciences, 2005, Vol.III, No.3-4, p. 39-47; ISSN 1584-0158

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AUTORII: E. Neagu, E. Teodor, G-L. Radu, **A.C. Nechifor**, G.Nechifor  
TITLU: *IMMOBILIZATION OF INVERTAZE ON MAGNETIC NANOPARTICLES*  
REV.: Romanian Biological Sciences, 2005, Vol.III, No.3-4, p. 1-9; ISSN 1584-0158

**Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a publicatiilor pe baza unor criterii de performanta. Se mentioneaza la fiecare lucrare includerea in Baza ISI [ISI Proceedings, ISSN] si/sau denumirea altei (altor) BDI.**

1.Polysulfone-Doped polyaniline composite membranes. Synthesis and electrochemical characteristics  
Voicu, S.I., Stanciu, N.D., **Nechifor, A.C.**, Vaireanu, D.I., Nechifor, G. , 2008, Proceedings of the International Semiconductor Conference, CAS 2 , art. no. 4703392 , pp. 245-248 , **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-2004-9**

2.Polysulfone-polypyrrole ionic conductive composite membranes synthesized by phase inversion with chemical reaction  
Muscalu, C., David, R., Garea, S.A., **Nechifor, A.C.**, Vaireanu, D.I., Voicu, S.I., Nechifor, G. , 2009, Proceedings of the International Semiconductor Conference, CAS 2 , art. no. 5336648 , pp. 557-560, **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-4413-7**

3.Synthesis and characterization of Congo red adsorbed onto titanium dioxide-iron composite  
Luntrarau, V.I., Ghindeanu, L., Vasile, E., **Nechifor, A.C.** , 2011, Proceedings of the International Semiconductor Conference, CAS 2 , art. no. 6095778 , pp. 229-232, **SCOPUS, ISSN 1545-827X**

4.Covalent enzyme immobilization onto carbon nanotubes using a membrane reactor , Voicu, S.I., **Nechifor, A.C.**, Gales, O., Nechifor, G. 2011, Proceedings of SPIE - The International Society for Optical Engineering 8068 , art. no. 80680Y, **ISI, 10.1117/12.888780**

5.Selective devices for applications in environmental protection , Totu, E.E., Gîrdea, R., **Nechifor, A.C.** , 2011, International Conference on Energy, Environment, Devices, Systems, Communications, Computers, EEDSCC'11 , pp. 82-86, **SCOPUS, ISSN 1792-863X**

6.Pervaporation of volatile amine solutions using polysulfone-C 60 nanocomposite membranes , **Nechifor, A.C.**, Voicu, S.I., Eftimie-Totu, E., Dima, A.M., Voicu, V.M., Nechifor, G. , 2011, International Conference on Energy, Environment, Devices, Systems, Communications, Computers, EEDSCC'11 , pp. 87-91 , **SCOPUS, ISSN 1792-863X**

7.New method for TiO2 covalent-ionic functionalization with different molecules for induced properties , Sava, S., Iarca, L., Trisca-Rusu, C., **Nechifor, A.C.**, Voicu, S.I., Nechifor, G. , 2010, Proceedings of the International Semiconductor Conference, CAS 2 , art. no. 5650685 , pp. 321-324 , **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-5781-6**

8.Ionic conductive silica-polypyrrole composites obtained by in-situ polymerization  
Baicea, C., Ivan, A., Trisca-Rusu, C., **Nechifor, A.C.**, Vaireanu, D.I., Voicu, S.I., Nechifor, G. , 2010  
Proceedings of the International Semiconductor Conference, CAS 2 , art. no. 5650655 , pp. 359-362 , **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-5781-6**

9. Covalently immobilized crown ethers onto polysulfone membranes as materials for sensors, Trisca-Rusu, C., **Nechifor, A.C.**, Voicu, S.I., Nechifor, G., 2010, Proceedings of the International Semiconductor Conference, CAS 1, art. no. 5649081, pp. 205-208, **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-5781-6**

10. Invertase immobilization onto dispersed magnetic particles. Synthesis and characterization, Luntraru, V.I., Danciulescu, V., **Nechifor, A.C.**, Voicu, S.I., Nechifor, G., 2010, Proceedings of the International Semiconductor Conference, CAS 2, art. no. 5650721, pp. 309-312, **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-5781-6**

11. Polysulfone-functionalized multiwalled carbon nanotubes composite membranes for potential sensing applications  
Trisca-Rusu, C., **Nechifor, A.C.**, Mihai, S., Parvu, C., Voicu, S.I., Nechifor, G.  
2009, Proceedings of the International Semiconductor Conference, CAS 1, art. no. 5336545, pp. 285-288, **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-4413-7**

12. Polysulfone-polypyrrole ionic conductive composite membranes synthesized by phase inversion with chemical reaction  
Muscalu, C., David, R., Garea, S.A., **Nechifor, A.C.**, Vaireanu, D.I., Voicu, S.I., Nechifor, G.  
2009, Proceedings of the International Semiconductor Conference, CAS 2, art. no. 5336648, pp. 557-560, **SCOPUS, ISSN 1545-827X, ISBN 978-1-4244-4413-7**

13. Simulation of membrane processes with applications in transport and adsorption of nitrate ions  
Daniela Elena Pascu, Oana Tatiana Nedelcu, **Aurelia Cristina Nechifor**, Mircea Segarceanu, 2014, Proceedings of the International Semiconductor Conference, CAS, pp. 229-302, **SCOPUS, IEEE ISBN 978-1-4799-3916-9/14/31.00**

14. The use of adsorption isotherms for modeling the nitrite and sulphite anions removal from aqueous solutions on a composite membrane  
D.E. Pascu, M. Neagu, G.A. Traistaru, **A.C. Nechifor**, A.R. Miron  
The 5<sup>th</sup> International Conference, Advanced Composite Materials Engineering, and The 3<sup>rd</sup> International Conference, Research and Innovation in Engineering, COMAT 2014, 16-17 October, 2014, Brasov, Romania, pp. 81-87, **ISBN 978-606-19-0411-2**

#### **Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate;**

1. *Separation of Co<sup>2+</sup> using n-alkilic alcohols based liquid membranes*, Recent Researches in Energy, Environment and Landscape Architecture 2011, ISBN 978-1-61804-052-7, p.71-76

**Aurelia Cristina Nechifor**<sup>1,2</sup>, Lacramioara Naftanila<sup>2</sup>, Andreea Raducu<sup>2</sup>, Valeriu Danciulescu<sup>2</sup>, Stefan Ioan Voicu<sup>2</sup>, Eugenia Eftimie Totu<sup>2</sup>

2. *Separation of Co<sup>2+</sup> from basic source phases with n-alcohol membranes*, Recent Researches in Energy, Environment and Landscape Architecture 2011, ISBN 978-1-61804-052-7, p.66-70, **Aurelia Cristina Nechifor**<sup>1,2</sup>, Ludmila Iarca<sup>2</sup>, Loreta Costache<sup>2</sup>, Octavian Dorca<sup>2</sup>, Cristiana Olteanu<sup>2</sup>, Carmen Lica<sup>2</sup>

3. *Composite PSF-PANI Membranes for Proteins Recovery*, Recent Researches in Environment and Biomedicine 2012, Atena, ISBN 978-1-61804-075-6, p. 126-131, **Aurelia Cristina Nechifor**<sup>1,2</sup>, Ionela Veronica Panait<sup>2</sup>, Szidónia Katalin Tánzos<sup>2</sup>, Mihaela Neagu<sup>2</sup>, Daniela Pascu<sup>2</sup>, Adriana Cuciureanu

4. *Synthesis of cellulosic microsystems with magnetic inclusions*, **Aurelia Cristina Nechifor**<sup>1,2</sup>, Danut-Lucian Ghindeanu<sup>2</sup>, Lacramioara Naftanila<sup>2</sup>, Alina Cristea<sup>2</sup>, Eugenia Eftimie Totu<sup>2</sup>, Recent Advances in Engineering, ISBN: 978-1-61804-137-1, p.40-45, Paris, 2012

5. *Applications of cellulosic microsystems with magnetic inclusions*

**Aurelia Cristina Nechifor**<sup>1,2</sup>, Szidonia Katalin Tanczos<sup>2</sup>, Veronica Ionela Panait<sup>2</sup>, Eugenia Eftimie-Totu<sup>2</sup>, Recent Advances in Engineering, ISBN: 978-1-61804-137-1, p.34-39, Paris, 2012

6. **A.C. Nechifor**<sup>1,2</sup>, V.I. Luntraru<sup>1</sup>, S.I. Voicu<sup>1</sup>, C. Trisca-Rusu<sup>1,2</sup>, I. Antoniac<sup>1</sup>, G. Nechifor<sup>1</sup>, *Magnetic particles functionalized with different enzymes for biomedical applications*, International Conference, Biomaterials, Tissue Engineering and Medical Devices, Sinaia, 2010

7. S.I. Voicu<sup>1</sup>, **A.C. Nechifor**<sup>1,2</sup>, C. Baicea<sup>1</sup>, C. Trisca-Rusu<sup>1,2</sup>, I. Antoniac<sup>1</sup>, G. Nechifor<sup>1</sup>, *Polysulfone-polianiline-salen composite membrane as material for artificial lung*, International Conference, Biomaterials, Tissue Engineering and Medical Devices, Sinaia, 2010

8. M. Ghimpusan, G. Nechifor, **A. C. Nechifor** and P. Passeri - Application of hollow fibre membrane MBR separation processes instead of GAC filtration in the physical-chemical industrial wastewater treatment – EuCheMs 31 August- 4 September 2014, Istanbul, Turcia;

9. M. Ghimpusan, G. Nechifor, **A. C. Nechifor** and P. Passeri - Lab scale evaluation for conversion of CO<sub>2</sub> result from digestion tank for nitrogen removal from a piggery wastewater - ELSEDDIMA 2014 International Conference, Cluj-Napoca, Romania, 18-19 September 2014.

10. Eugenia Eftimie Totu, **Aurelia Cristina Nechifor**, Electrical Characteristics of Polymeric Membranes with Nanocarriers used in Bioanalytical Applications, pp. 145, BIO ENG 2014, Bioengineering Conference Proceeding, ISBN 978-605-5120-95-5

11. Eugenia Eftimie Totu, **Aurelia Cristina Nechifor**, Alexandra Maier, Catalina Spatarelu, Rares Girdea, Selective devices based on membranes with magnetic inclusions for applications in environmental protection, Conference: *EUROANALYSIS XVII* Warsaw, Poland, 25-29 August 2013