

**Lista publicațiilor****Articole ISI**

1. Neamțu M, Nădejde C., Brînza L., Dragoș O., Gherghel D., Paul A. (2020). Iron phthalocyanine-sensitized magnetic catalysts for Bisphenol A photodegradation, *Scientific Reports* (Nature Publishing), DOI: 10.1038/s41598-020-61980-6
2. Brînza L., Geraki K., Cojocaru C., Lovstad Holdt S., Neamțu M. (2020). Baltic Fucus vesiculosus as potential biosorbent for Zn removal: Mechanism insight, *Chemosphere*, 238, DOI: 10.1016/j.chemosphere.2019.124652
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6. Boldescu V., Sucman N., Hassan S., Iqbal J., Neamțu M., Lecka J., Sevigny J., Prodius D., Macaev F. (2018). Ectonucleotidase Inhibitory and Redox Activity of Imidazole-Based Organic Salts and Ionic Liquids, *ChemMedChem*, 13 (21), 2297-2304.
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8. Neamțu M., Nadejde C., Hodoroaba V.-D., Schneider R.J., Verestiuc L., Panne U. (2018). Functionalized magnetic nanoparticles: Synthesis, characterization, catalytic application and assessment of pollutant toxicity, *Scientific Reports* (Nature Publishing), 8: 6278, DOI: 10.1038/s41598-018-24721-4
9. Rambu A.P., Nadejde C., Schneider R.J., Neamțu M. (2018) Thin films containing oxalate-capped iron oxide nanomaterials deposited on glass substrate for fast Fenton degradation of some micropollutants, *Environmental Science and Pollution Research*, 25 (7), 6802-6813
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11. Neamțu M., Macaev F., Boldescu V., Hodoroaba V.-D., Nadejde C., Schneider R. J., Paul A., Ababei G., Panne U., (2016). Removal of pollutants by the new Fenton-like highly active catalysts containing an imidazolium salt and a Schiff base, *Applied Catalysis B: Environmental*, 183, 335-342.
12. Nadejde C., Neamțu M., Hodoroaba V.-D., Schneider R.J., Paul A., Ababei G., Panne U. (2015), Green Fenton-like catalysts for the removal of water pollutants, *Journal of Nanoparticle Research*, 17, 476
13. Nadejde C., Neamțu M., Hodoroaba V.-D., Schneider R.J., Paul A., Ababei G., Panne U. (2015). Green Fenton-like magnetic nanocatalysts: synthesis, characterization and catalytic application, *Applied Catalysis B: Environmental*, 176, 667-677
14. Nădejde C., Neamțu M., Creangă D. (2015). Environment-friendly magnetic fluids for wastewater remediation – synthesis and characterization. *Acta Physica Polonica A*, 127 (2), 647-649.
15. Nădejde C., Neamțu M., Schneider R.J., Hodoroaba V.-D., Ababei G., Panne U. (2015). Catalytical degradation of relevant pollutants from waters using magnetic nanocatalysts, *Applied Surface Science*, 352, 42-48.
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17. Volf I., Ignat I., Neamțu M., Lisa G., Popa V. (2014). Thermal stability and photooxidation of natural polyphenols, *Chemical Papers*, 68 (1) 121–129.
18. Neamțu M., Bobu M., Kettrup A., Siminiceanu I. (2013). Ozone photolysis of paracetamol aqueous solution. *Journal of Environmental Science and Health, Part A*, 48 (10), 1264 – 1271.
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22. Neamtu M., Popa D. M., Frimmel F. H. (2009) Simulated solar UV-irradiation of endocrine disrupting chemical octylphenol. *Journal of Hazardous Materials*, 164, 1561-1567
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25. Neamtu M., Frimmel, F. H. (2006) Photodegradation of endocrine disrupting chemical nonylphenol by simulated solar UV-irradiation, *Science of the Total Environment* 369 (1-3), 295-306.
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27. Neamtu M., Catrinescu C., Kettrup A. (2004) Effect of dealumination of iron (III) - exchanged Y zeolites on oxidation of reactive yellow 84 azo dye in the presence of hydrogen peroxide, *Applied Catalysis: Environmental*, 51, 149-157.
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33. Siminiceanu I., Neamtu M. (2001) Kinetics of Bisphenol A photodegradation in water by ultraviolet activated hydrogen peroxide, *Rev. Chim. (București)*, 2 (1-2) 19-22
34. Neamtu M., Siminiceanu I., Kettrup A., (2000) Kinetics of Nitromusk Compounds Degradation in Water by Ultraviolet Radiation and Hydrogen Peroxide, *Chemosphere*, 40(12), 1407-1410
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36. Neamtu M., Sminiceanu I., (1999) Abiotic treatment of drinking water: nitro musks' destruction by ultraviolet oxidation with hydrogen peroxide (II), (in Romanian) *Rev. Chim. (Bukarest)*, 50(7) 545-553.
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#### Cărți, capitole de cărți, lucrări BDI și alte lucrări

1. Neamtu M., (2009) *Procedee fotochimice și catalitice în protecția mediului, îndrumar de laborator*, UT, Iași, 56 p
2. Neamtu M., (2008) *Procedee fotochimice și catalitice în protecția mediului*, Ed. Pim,Iași/Ed. Cartdidact,Chișinău, 146p, ISBN 978-606-520-215-3/978-9975-940-88-7
3. Ciumasu M.I, Neamtu M., Costică N., De Alencastro F. (2008) Chemical, biological and ecotoxicological assessment of pollution with pesticides and POPs in Bahlui River, Romania, *Danube News*, 17, 9-10.
4. Ciumașu I. M., Costică N., Neamtu M., De Alencastro F. (2008) Research note on chemical loads and ecological context of pesticides and POPs in Bahlui River, Romania. *Geo-Eco-Marina*, 14, 57-61
5. Catrinescu C., Neamtu M., Miehe-Brendlé J., Gich Garcia M., Kettrup A. (2006) Catalytic wet peroxide oxidation of reactive azo dyes over iron-containing pillared beidellite catalyst. In *Materiales arcillosos: de la geología a las nuevas aplicaciones*, Eds. M. Snárez, M. Á. Vicente, V. Rives, M. J. Sánchez, Salamanca, ISBN 84-689-6471-9, 87-99
6. Neamtu M., Popa D. M., Frimmel F. H. (2006) Photodegradation of endocrine disrupting chemicals nonylphenol and octylphenol in River Rhine and Lake Hohloch waters. In *Humic Substances – Linking Structure to Functions*. Eds. Fritz H. Frimmel, Gudrun Abbt-Braun, Universität Karlsruhe, ISSN 1612-118X, 45-II, p.913-917
7. Neamtu M. (2006) Photochemische oxidation. In *Wassertechnologisches und wasserchemisches Praktikum*, Eds. Fritz H. Frimmel, Gudrun Abbt-Braun, Universität Karlsruhe, ISSN 1612-118X, 45-II, p.67-78
8. Jahnel J., Neamtu M., Frimmel F. H. (2004) Entwicklung von Umweltqualitätsnormen zum Schutz aquatischer Biota in Oberflächengewässern (O 10.03) [http://www.mvnet.de/wa\\_bo\\_ab/phpUNI/unistatisch/6/52/index.htm](http://www.mvnet.de/wa_bo_ab/phpUNI/unistatisch/6/52/index.htm), 28 p.

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**Lucrări științifice publicate în volumele conferințelor internaționale (selectate)**

1. Neamtu M., Nadejde C., Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U. Preparation, characterization and application of Fe<sub>3</sub>O<sub>4</sub>/PEG nanoparticles functionalized with ferrous oxalate or ferric citrate for removal of Bisphenol A, Designing New Heterogeneous Catalysts, Faraday Discussion, volume 188, p. 603; Book of abstracts, P14, April 4-6, 2016, London, UK.
2. Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U. Highly active magnetic catalysts for efficient degradation of Bisphenol A from aqueous media, Designing New Heterogeneous Catalysts Faraday Discussion, Book of abstracts, P81, April 4-6, 2016, London, UK.
3. Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U. Characterization and application of Green Fenton-like catalysts for the removal of water pollutants. *PTIM 2015 – Proceedings*, 1<sup>st</sup> International Caparica Conference on Pollutant Toxic Ions and Molecules, November 2-4, 2015, Caparica, Portugal, ISBN: 978-989-99361-6-4, 186-187
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5. Mülow U., Falkenhagen J., Neamtu M., Piechotta C, Transformation des Herbizids Metamitron in Modellsystemen: Identifizierung von Produkten und Bestimmung von Abbauraten, *ANAKON 2015*, March 23-26, 2015, Graz, Austria

6. Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Iron oxalate core-shell magnetite nanoparticles catalyst as heterogeneous Fenton-like catalyst for removal of dyes from water, *AFF2 Adlershofer Forschungsforum*, November 11 , 2014, Berlin, Germany
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8. Nadejde C., Neamtu M., Schneider R.J., Hodoroaba V.-D., Catalytical removal of relevant pollutants from waters using nanocatalysts. *1<sup>st</sup> Autumn School on Physics of Advanced Materials (PAMS-1)*, September 22 – 28 , 2014, Iași, Romania
9. Nadejde C., Neamtu M., Eco-friendly magnetic fluids as effective nanocatalysts for wastewater remediation, The European Conference PHYSICS OF MAGNETISM 2014 (PM'14), June 23-27, 2014, Poznań, Poland, ISBN 83-922407-9-0, p.227
10. Neamtu M., Grandjean D., Sienkiewicz A., de Alencastro L. F., Pulgarín C., Comparative behavior of relevant micropollutants in different water matrices by  $uv_{254}$  and simulated solar light irradiation and neutral photo-Fenton process, The 38th International Symposium on Environmental Analytical Chemistry – ISEAC38, June 17-20, 2014, Lausanne, Switzerland, p.154
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12. Neamtu M., De Alencastro, F. (2008) Chemical assessment of the Bahlu River in north-eastern Romania. Case study: Pesticides and Persistent Organic Polutants (POPs). In *Obsolete Pesticides in Central and Eastern European, Caucasus and Central Asia Region: Start of clean up*, Eds. Vijgen J., Plesca V., Mosanu V., Barbarasa I., Cupcea L., Bulimaga T., ISBN 978-9975-70-707-7, USM, Chisinau, 2008, vol.2, 243-245.
13. Tercero L. E., Neamtu M., Frimmel F. H. (2006). The effect of Fe (III), nitrate and hydrogen carbonate on the degradation of Bisphenol A by simulated solar UV-irradiation. In *Solar Chemistry and Photocatalysis. Environmental Applications. Book of abstracts* Las Palmas, Gran Canaria, Spain, 246-248
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24. Siminiceanu I., and Neamtu M., (1999) Study of Nitromusks Degradation in Water by Ultraviolet Radiation and hydrogen peroxide, in *Chemical Industry and Environment III, European Meeting on Chemical Industry and Environment/EMCHIE 99*, Krakow, Techn. Univ. , Łódź ; ISSN 1999.09.01-03, vol.2,p.673-678
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**Participări la manifestări științifice naționale și internaționale  
(prezentare orală sau poster)**

1. 6th EuCheMS Chemistry Congress, September 11-15, 2016, Seville, Spain
2. 11th International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT), September 6-9, 2016, Aveiro, Portugalia
3. Designing New Heterogeneous Catalysts: Faraday Discussion, April 4-6, 2016, London, UK
4. 1<sup>st</sup> International Caparica Conference on Pollutant Toxic Ions and Molecules, November 2-4, 2015, Caparica, Portugal
5. TechConnect World Innovation Conference Nanotech 2015, June 14-17, 2015, Washington, DC, Maryland, USA
6. ANAKON 2015, March 23-26, 2015, Graz, Austria
7. AFF2 Adlershofer Forschungsforum, November 11, 2014, Berlin, Germany
8. International Conference on Physics of Advanced Materials (ICPAM-10), September 22 – 28, 2014 Iasi, Romania
9. 1<sup>st</sup> Autumn School on Physics of Advanced Materials (PAMS-1), September 22 – 28, 2014 Iasi, Romania
10. The European Conference PHYSICS OF MAGNETISM 2014 (PM'14), June 23-27, 2014, Poznań, Poland
11. The 38th International Symposium on Environmental Analytical Chemistry – ISEAC38, June 17-20, 2014, Lausanne, Switzerland
12. Workshop of COST FP0901, Septembrie 7-8, 2011, Viterbo, Italia
13. Italic 6 Science & Technology of Biomasses: Advances and challenges from forest and agricultural biomasses to high added value products: processes and materials, Septembrie 5-8, 2011, Tuscia University, Viterbo, Italia
14. KontakTUM Workshop für Multiplikatoren, Februarie 19–21, 2010, Munich, Germania
15. KontakTUM, Septembrie 15-19, 2008, Munich, Germania.
16. ESTROM 2008 Conference, Septembrie 3-5, 2008, București, România.
17. 9th International HCH and Pesticides Forum for Central and Eastern European, Caucasus and Central Asia Countries, Septembrie 20-22 2007, Chișinău, Republica Moldova
18. ESTROM Meeting. Septembrie12–16, 2006, Iași, România
19. 4th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA 2006), Noiembrie 8-10, 2006, Las Palmas, Gran Canaria, Spania
20. 13th Meeting of the International Humic Substances Society IHSS 2006, 30 Iulie – 4 August 2006, Karlsruhe, Germania
21. Workshop on Water Chemistry “Water our Blue Gold”, Martie 15-17, 2006, Bursa, Turcia
22. Environmental Science and Technology in Romania (ESTROM). Mai 11-13, 2006, Tulcea, România
23. 12 Interdisziplinäres Forschungskolloquium, Martie 22, 2006, Karlsruhe, Germania
24. International scientific conference UNITECH 2005, Noiembrie 24 – 25, 2005, Gabrovo, Bulgaria
25. XIX Reunión Científica - SEA05, Sociedad Española de Arcillas, Septembrie 27 -29, 2005, Salamanca, Spania
26. Analytical Sciences in Environmental and Geological Research. 20 Septembrie 2005, EAWAG/EMPA Akademie, Dübendorf, Elveția
27. ESTROM Kick-off Meeting. Mai 19-20, 2005, Cluj-Napoca, România
28. 10 Interdisziplinäres Forschungskolloquium. 14 Octombrie 2004, Karlsruhe, Germania
29. European Conference on UV Radiation. Effects and Technologies. UV Karlsruhe 2004, Septembrie 22-24, 2004, Karlsruhe, Germania
30. COFrRoCA 2004, Actes du Colloque Franco-Roumain de Chimie Appliquée, Septembrie 22-26, 2004, Slănic Moldova, România
31. 16th International Congress of Chemical and Process Engineering CHISA 2004, August 22-26, 2004, Praga, Republica Cehă
32. A XXVIII-a Conferinta Națională de Chimie, Octombrie 6-8, 2004, Călimănești-Căciulata, România
33. 2nd International Congress on Ultraviolet Technologies IUVA, Julie 9-11, 2003, Viena, Austria
34. 3rd IWA Conference on Oxidation Technologies for Water and Wastewater Treatment, Mai 18-22, 2003, Goslar, Germania
35. Annual General Meeting of Marie Curie Fellowship Association AGM 2003, Aprilie 5-6, 2003, Brussels, Belgia
36. European Meeting on Chemical Industry and Environment EMChIE 2003, Februarie 12-14, 2003, Las Palmas de Gran Canaria, Spania
37. 5th IWA Chemical Industry group conference, Noiembrie 13-15, 2002, Nîmes, Franța
38. Deuxieme colloque franco-roumain de chimie appliquée CoFrRoCa 2002, Octombrie 10-11, 2002, Bacău, România
39. 1st International Conference on Environmental Engineering and Management, ICEEM/01, Septembrie 26-28, 2002, Iași, Romania
40. 15th International Congress of Chemical and Process Engineering CHISA'2002, August 25-29, 2002, Praga, Republica Cehă
41. 3rd European Congress of Chemical Engineering ECCE, iunie 26-28, 2001, Nürnberg, Germania
42. Deuxieme colloque franco-roumain de chimie appliquée CoFrRoCa 2000, Octombrie 12–14, 2000, Bacău, România

- 43. 7th Regional Meeting of the Central and East European Section of SECOTOX, Septembrie 25-27, 2000, Bratislava, Slovacia
- 44. CHISA 2000, 27- 31 August, 2000, Prague, Republica Cehă
- 45. European Meeting on Chemical Industry and Environment/EMCHIE 99, September 1- 3, 1999, Krakow, Polonia
- 46. CEPS 6 Chemical Engineering Processes Symposium, 6th Edition, Octombrie 23-25, 1998, Piatra Neamț, România
- 47. SICHEM'98 International Symposium of Chemical Engineering, Octombrie 20-23, 1998, București, România
- 48. International Congress of Chemical and Process Engineering CHISA'98, August 23-28, 1998, Praha, Czech Republic
- 49. 1st International Conference of the Chemical Societies of the South-East European Countries, Iunie 1-4, 1998, Halkidiki, Grecia
- 50. A XXIV-a Sesiune Națională de Comunicări Științifice, Octombrie 7-9, 1998, Călimănești-Căciulata, România
- 51. Al II-lea Simpozion Internațional „Cercetarea Interdisciplinară Zonală, Decembrie 11-12, 1997, Timișoara, România
- 52. Simpozion Științific Jubiliar „75 ani de învățământ chimic românesc la Alma Mater Napocensis, Mai 20-21, 1994, Cluj-Napoca, România

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