

1. Maftei A. E., Cojocaru C., Dobromir M., Ignat M., Neamtu M.* (2024) Novel nanohybrid iron (II/III) phthalocyanine-based carbon nanotubes as catalysts for organic pollutant removal: process optimization by chemometric approach, *Environmental Science and Pollution Research*, DOI: 10.1007/s11356-024-33653-8 **FI 2022=5.8**
2. Coromelci C. G., Maftei A. E., Neamtu M., Ababei G., Brinza L. (2024) Amorphous iron oxyhydroxides nano precursors used for Reactive Yellow 84 removal from aqueous solutions. *Separation and Purification Technology*, 331, 125632 <https://doi.org/10.1016/j.seppur.2023.125632> **FI 2022=8.6**
3. Maftei A. E., Imad A., Neamtu M., Coromelci C. G., Ignat M., Brinza L. (2023) Nanocrystalline structured ethylene glycol doped maghemite for persistent pollutants removal, *RSC Environmental Science: Water Research & Technology*, 9, 1634-1645 <https://doi.org/10.1039/D2EW00986B> **FI 2022=5.0**
4. Coromelci C., Ignat M., Sacarescu L., Neamtu M.*, (2022) Enhanced visible light activated mesoporous titania by rare earth metal doping, *Microporous and Mesoporous Materials*, 341, 112072 <https://doi.org/10.1016/j.micromeso.2022.112072> **FI 2022=5.2**
5. Brinza L., Maftei A., Tascu S., Brinza F. Neamtu M.* (2022) Advanced removal of Reactive Yellow 84 azo dye using functionalised amorphous calcium carbonates as adsorbent, *Scientific Reports*, 12(1), 3112, <https://doi.org/10.1038/s41598-022-07134-2> **FI 2022=4.6**
6. Coromelci C., Neamtu M., Ignat M., Samoilă P., Zaltariov M. F., Palamaru M. (2022) Ultrasound assisted synthesis of heterostructured TiO₂/ZnFe₂O₄ and TiO₂/ZnFe_{1.98}La_{0.02}O₄ systems as tunable photocatalysts for efficient organic pollutants removal, *Ceramics International*, 48 (4), 4829-4840, <https://doi.org/10.1016/j.ceramint.2021.11.019> **FI2022=5.2**
7. Brinza L., Geraki K., Matamoros-Veloz A., Ignat M., Neamtu M. (2021) The Irish kelp, *Fucus vesiculosus*, a highly potential green bio sorbent for Cd (II) removal: Mechanism, quantitative and qualitative approaches, *Journal of Cleaner Production*, 327, Art nr. 129422, DOI: [10.1016/j.jclepro.2021.129422](https://doi.org/10.1016/j.jclepro.2021.129422) **FI2021=9.297**
8. Brinza L., Ahmed I., Cismasiu CM., Ardelean I., Breaban IG., Doroftei F., Ignatyev K., Moisescu C., Neamtu M. (2021) Geochemical investigations of noble metal-bearing ores: Synchrotron-based micro-analyses and microcosm bioleaching studies, *Chemosphere*, 270, Art nr. 129388, <https://doi.org/10.1016/j.chemosphere.2020.129388> **FI2021=8.943**
9. Neamtu M.*, Nădejde C., Brinza L., Dragoș O., Gherghel D., Paul A. (2020). Iron phthalocyanine-sensitized magnetic catalysts for Bisphenol A photodegradation, *Scientific Reports* (Nature Publishing), <https://doi.org/10.1038/s41598-020-61980-6> **FI2020=4.379**
10. Brinza L., Geraki K., Cojocaru C., Lovstad Holdt S., Neamtu M. (2020). Baltic *Fucus vesiculosus* as potential bio-sorbent for Zn removal: Mechanism insight, *Chemosphere*, 238, <https://doi.org/10.1016/j.chemosphere.2019.124652> **FI2019=5.778**
11. Brinza L., PhucVu H., Neamtu M., Benning L.G. (2019). Experimental and simulation results of the adsorption of Mo and V onto ferrihydrite, *Scientific Reports* (Nature Publishing), 9: 1365, <https://doi.org/10.1038/s41598-018-37875-y> **FI2019=3.99**
12. Neamtu M.*, Nadejde C., Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U. (2019). Photocatalysis of γ -cyclodextrin-functionalised Fe₃O₄ nanoparticles for degrading Bisphenol A in polluted waters, *Environmental Chemistry*, 16 (2), 125-136 <https://doi.org/10.1071/EN18181> **FI2019=1.910**
13. Brinza L., Geraki K., Breaban I. G., Neamtu M. (2019). Zn adsorption onto Irish *Fucus vesiculosus*: Biosorbent uptake capacity and atomistic mechanism insights, *Journal of Hazardous Materials*, 365, 252-260. <https://doi.org/10.1016/j.jhazmat.2018.11.009> **FI2019=9.038**
14. Boldescu V., Sucman N., Hassan S., Iqbal J., Neamtu M., Lecka J., Sevigny J., Prodius D., Macaeu F. (2018). Ectonucleotidase Inhibitory and Redox Activity of Imidazole-Based Organic Salts and Ionic Liquids, *ChemMedChem*, 13 (21), 2297-2304. <https://doi.org/10.1002/cmdc.201800520> **FI2019=3.124**
15. Neamtu M.*, Nadejde C., Hodoroaba V.-D., Schneider R.J., Panne U. (2018). Singlet oxygen generation potential of porphyrin-sensitized magnetite nanoparticles: Synthesis, characterization and photocatalytic application, *Applied Catalysis B: Environmental*, 232, 553-561 <https://doi.org/10.1016/j.apcatb.2018.03.079> **FI2018=14.228**
16. Neamtu 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 <https://doi.org/10.1038/s41598-018-24721-4> **FI2018=4.011**
17. Rambu A.P., Nadejde C., Schneider R.J., Neamtu 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. <https://doi.org/10.1007/s11356-017-1022-y> **FI2018=2.914**
 18. Nadejde C., Neamtu M.*, Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U. (2016). Hybrid iron-based core-shell magnetic catalysts for fast degradation of bisphenol A in aqueous systems, *Chemical Engineering Journal*, 302, 587-594. <https://doi.org/10.1016/j.cej.2016.05.090> **FI2016=6.216**
 19. Neamtu 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. <https://doi.org/10.1016/j.apcatb.2015.10.032> **FI2016=9.336**
 20. Nadejde C., Neamtu M.*, Hodoroaba V.-D., Schneider R.J., Paul A., Ababei G., Panne U. (2015), Tannic acid- and natural organic matter-coated magnetite as green Fenton-like catalysts for the removal of water pollutants, *Journal of Nanoparticle Research*, 17, 476. <https://doi.org/10.1007/s11051-015-3290-0> **FI2015=2.101**
 21. Nadejde C., Neamtu 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. <https://doi.org/10.1016/j.apcatb.2015.04.050> **FI2015=8.328**
 22. Nădejde C., Neamtu M., Creangă D. (2015). Environment-friendly magnetic fluids for wastewater remediation – synthesis and characterization. *Acta Physica Polonica A*, 127 (2), 647-649. <http://dx.doi.org/10.12693/APhysPolA.127.647> **FI2015=0.525**
 23. Nadejde C., Neamtu 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. <https://doi.org/10.1016/j.apsusc.2015.01.036> **FI2015=3.150**
 24. Neamtu M.*, Grandjean D., Sienkiewicz A., Le Faucheur S., Slaveykova V., Velez Colmenares J., Pulgarin C., De Alencastro F. L. (2014). Degradation pathways of eight relevant micropollutants in different water matrices under exposure to UV₂₅₄, simulated solar light irradiation and neutral photo-Fenton process – a comparative study, *Applied Catalysis B: Environmental*, 158-159, 30-37. <https://doi.org/10.1016/j.apcatb.2014.04.001> **FI2014=7.435**
 25. Volf I., Ignat I., Neamtu M.*, Lisa G., Popa V. (2014). Thermal stability and photooxidation of natural polyphenols, *Chemical Papers*, 68 (1) 121-129. **FI2014=1.468**
 26. Neamtu M.*, Bobu M., Ketrup A., Siminiceanu I. (2013). Ozone photolysis of paracetamol aqueous solution. *Journal of Environmental Science and Health, Part A*, 48 (10), 1264 – 1271. <https://doi.org/10.1080/10934529.2013.776898> **FI2013=1.135**
 27. Ciomasu M.I., Costica M., Costica N., Neamtu M., Dirtu A. C., De Alencastro L. F., Buzdugan L., Andriesa R., Iconomu L., Stratu A., Popovici O. A., Secu C. V., Olariu C. P., Dunca S., Stefan M., Lupu A., Stingaciu-Basu A., Netedu A., Dimitriu R.-I., Gavrilovici O., Talmaciu M., Borza M. (2012). Complex Risks from Old Urban Waste Landfills: Sustainability Perspective from Iasi, Romania, *Journal of Hazardous, Toxic, and Radioactive Waste*, 16 (2), 158-170. [https://doi.org/10.1061/\(ASCE\)HZ.2153-5515.0000090](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000090) **FI2022=2.7**
 28. Neamtu M., Ciomasu I. M., Costica N., Costica M., Bobu M., Nicoara M. N., Catrinescu C., Becker van Slooten K., De Alencastro L. F. (2009) Chemical, biological and ecotoxicological assessment of pesticides and persistent organic pollutants in Bahlui River, Romania, *Environmental Science and Pollution Research*, 16, S76-S85. <https://doi.org/10.1007/s11356-009-0101-0> **FI2009=2.411**
 29. Neamtu M.*, Popa D. M., Frimmel F. H. (2009). Photodegradation of octylphenol using simulated and natural sunlight radiation. In *Sewage treatment: uses, processes and impact*, Eds. A. Stephens and M. Füller, Nova Science Publishers, New York, ISBN 978-1-60876-875-2, WOS:000269227400014, pp. 341-362.
 30. 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. <https://doi.org/10.1016/j.jhazmat.2008.08.024> **FI2009=4.144**
 31. Tercero Espinoza, L.A., Neamtu M., Frimmel F. H. (2007) The effect of nitrate, Fe(III) and bicarbonate on the degradation of bisphenol A by simulated solar UV-irradiation, *Water Research*, 41, 4479-4487. <https://doi.org/10.1016/j.watres.2007.06.060> **FI2007=3.427**
 32. Neamtu M.*, Frimmel F. H. (2006) Degradation of endocrine disrupting Bisphenol A by 254 nm irradiation in different water matrices and effect on yeast cells, *Water Research*, 40, 3745-3750. <https://doi.org/10.1016/j.watres.2006.08.019> **FI2006=2.459**
 33. 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. <https://doi.org/10.1016/j.scitotenv.2006.05.002> **FI2006=2.359**

34. Jahnel J., Neamtu M., Schudoma D., Frimmel F. H. (2006) Bestimmung von Umweltqualitätsnormen für potenziell gewässerrelevante Stoffe. *Acta hydrochemica et hydrobiologica* 34 (4), 389-397. <https://doi.org/10.1002/aheh.200500639> **FI2006=0.632**
35. 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. <https://doi.org/10.1016/j.apcatb.2004.01.020> **FI2004=4.042**
36. Neamtu M.*, Zaharia C., Catrinescu C., Yediler A., Macoveanu M., Kettrup A. (2004) Fe-exchanged Y zeolite as catalyst for wet oxidation of Procion Marine H-EXL azo dye, *Applied Catalysis: Environmental* 48, 287-294. <https://doi.org/10.1016/j.apcatb.2003.11.005> **FI2004=4.042**
37. Neamtu M.*, Yediler A., Siminiceanu I., Macoveanu M., Kettrup A. (2004) Decolorization of Disperse Red 354 azo dye in water by several oxidation processes – a comparative study, *Dyes and Pigments*, 60, 61-68. [https://doi.org/10.1016/S0143-7208\(03\)00129-3](https://doi.org/10.1016/S0143-7208(03)00129-3) **FI2004=1.610**
38. Neamtu M.*, Yediler A., Siminiceanu I., Kettrup A. (2003) Oxidation of commercial reactive azo dye aqueous solutions by the photo-Fenton and Fenton-like processes, *Journal of Photochemistry and Photobiology A: Chemistry*, 161 (1), 87-93. [https://doi.org/10.1016/S1010-6030\(03\)00270-3](https://doi.org/10.1016/S1010-6030(03)00270-3) **FI2004=1.693**
39. Neamtu M., Siminiceanu I., Yediler A., Kettrup A., (2002) Kinetics of decolorization and mineralization of reactive azo dyes in aqueous solution by UV/H₂O₂ oxidation, *Dyes and Pigments*, 53, 93-99. [https://doi.org/10.1016/S0143-7208\(02\)00012-8](https://doi.org/10.1016/S0143-7208(02)00012-8) **FI2002=0.883**
40. Catrinescu C., Neamtu M., Yediler A., Macoveanu M., Kettrup A. (2002) Catalytic wet peroxide oxidation of an azo dye Reactive Yellow 84, over Fe-exchanged ultrastable Y zeolite, *Environmental Engineering and Management Journal*, 1(2), 177-186.
41. 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. **FI2001=0.291**
42. 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. [https://doi.org/10.1016/S0045-6535\(99\)00305-7](https://doi.org/10.1016/S0045-6535(99)00305-7) **FI2000=1.033**
43. Neamtu M.*, Yediler A., Siminiceanu I., Macoveanu K., Kettrup A., (2000) Photodegradation of reactive yellow 84 azo-dye in aqueous solution, *Toxicological and Environmental Chemistry*, vol.78, 31-40. <https://doi.org/10.1080/02772240009358958> **FI2000=0.693**
44. 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. WOS:000084553300011 **FI1999=0.123**
45. Neamtu M., Sminiceanu I., (1998) Abiotic treatment of drinking water: nitro musks' destruction by ultraviolet oxidation with hydrogen peroxide (I), (in Romanian) *Rev. Chim. (Bukarest)*, 49(11), 745-750. WOS:000081074700001 **FI1998=0.099**

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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. Ciomasu M.I., Neamtu M., Costica 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. Ciomasu 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 Hohloh waters. In *Humic Substances –*

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, 28 p.
9. Neamtu M., Catrinescu C., Yediler A., Kettrup A. (2003) Catalytic wet peroxide oxidation of Reactive Yellow 84 azo dye over heterogeneous catalyst, in Oxidation Technologies for water and wastewater treatment – Special Topic: AOP's for Recycling and Reuse, Ed. A. Vogelpohl, Claustahl: Papierflieger Verlag, ISBN 3-89720-655-2, 899-904.
10. Kettrup A., Neamtu M., Yediler A., Siminiceanu I. (2003) Textile wastewater treatment by photochemical processes, in Chemical Industry and Environment IV, Eds. Macias Machin, A. and Umbria, J. (Universidad de Las Palmas de Gran Canaria), 31-36.
11. Catrinescu C., Neamtu M., Yediler A., Macoveanu M., Kettrup A. (2003) Mixed Al-Fe Pillared bentonite as catalyst for the oxidation of Reactive Yellow 84 azo dye by H₂O₂, Bul. Univ. Tehn. "Gh. Asachi" Iași, Tomul XLIX (LIII), Fasc 1-2, 81-87
12. Neamtu M., Yediler A., Kettrup A., (2002) Concepts and methodologies to minimize environmental impact from wastewater – textile industry, a case study, BMBF – Bundesministerium für Bildung und Forschung, 21p
13. Siminiceanu I., Neamtu M. (2002) Kinetics of Reactive Azo-Dyes Photodegradation in Water. Bul. Sci. Univ. Polyt. Timisoara (English Ed.), Chem.,45/59,1,108-113.
14. Siminiceanu I., Neamtu M. (2001) Kinetics of PBA Degradation in Water by UV Activated Hydrogen Peroxide, Scientific Study and Research (ISSN 1582-540 X) Bacau, 2, 1-2, 87
15. Lienert D., Neamtu M., Koch M., Yediler A., Kettrup A., (2000) Vergleich von Methoden zur CSB-Bestimmung in Abwasserteilströmen mit hohen Chloridkonzentration in der Textilveredlungsindustrie, Melliand Textilberichte International Textile Reports, 81(6), 523-525
16. Siminiceanu I., Neamtu M., Macoveanu M., (2000) Photodegradation of reactive yellow 84 azo-dye in the textile wastewater, Analele Univ. „Ovidius” Constanta, s. Chimie, vol. XI, 114-116
17. Lienert D., Neamtu M., Koch M., Yediler A., Kettrup A., (2000) Comparison and methods for COD determination in wastewater streams, Melliand Textilberichte International Textile Reports, 81(6), E130-131.
18. Siminiceanu I. and Neamtu M. (1999) Study of nitromusks degradation, Analele Univ. "Al. I. Cuza", VII, 2, s. Chimie, 381-386.
19. Siminiceanu I., Neamtu M., (1998) Photodegradation of bisphenol A in water by ultraviolet-activated hydrogen peroxide, Bul. Univ. Tehn. "Gh. Asachi" Iasi, Tom XLIV (XLVIII), 1-2, 61-67.
20. Neamtu Mariana, Studies concerning the abiotic treatment of water. Photodegradation of synthetic musks and of Bisphenol-A by advanced oxidation processes with UV radiation in the presence of hydrogen peroxide, PhD thesis, "Gh. Asachi" Technical University of Iași, 1997.
21. Neamtu M., Siminiceanu I, (1997) Determination of the reaction products of the bisphenol A photodegradation in water by ultraviolet catalysed oxidation with hydrogen peroxide, Bul. Univ. Tehn. "Gh. Asachi" Iasi, Tom XLIII (XLVII), 3-4, 43-50.
22. Neamtu M., Siminiceanu I., (1996) Photodegradation of bisphenol A in water in the presence of humic substances and surfactants, Analele stiintifice ale Univ. "Al. I. Cuza" Iasi, s. chim., IV, 179-183.
23. Neamtu M., Siminiceanu I, (1996) Determination of anionic products of nitromusk ketone degradation in water by UV-activated hydrogen peroxide, Analele stiintifice ale Univ. "Al. I. Cuza" Iasi, s. chim., IV, 183-188.
24. Siminiceanu I., Duca Gh., Neamtu M., (1995) Water Contamination by Pesticides, în: Self-Purification Processes in Natural Waters (Duca Gh. Editor), Bulat Art, Chisinau, p 167-179.

1. Coromelci C., Palamaru M., Neamtu M., Ignat M. *Ultrasound Assisted Synthesis of Carbon-Nitrogen co-doped Mesoporous Titania for Organic Pollutants Removal*, IEEE Proceedings of the International Semiconductor Conference, CAS, Volume 2020-October, 7 October 2020, Article number 9268026, Pages 183-186, DOI: 10.1109/CAS50358.2020.9268026
2. Neamtu M., Nadejde C., Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U. *Preparation, characterization and application of Fe₃O₄/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.
3. 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.
4. 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, 1st International Caparica Conference on Pollutant Toxic Ions and Molecules, November 2-4, 2015, Caparica, Portugal, ISBN: 978-989-99361-6-4, 186-187
5. Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Paul A., Ababei G., Panne U. *Green Fenton-like catalysts for the removal of water pollutants*, TechConnect World Innovation Conference Nanotech 2015, June 14-17, 2015, Washington, DC, Maryland, USA. Vol 2 Materials for Energy, Efficiency and Sustainability, p.87-90, CRC Press, Taylor&Francis Group, ISBN 978-1-4987-4733-2.
6. 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
7. 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
8. Nadejde C., Boldescu V., Neamtu M., Macaev F., Hodoroaba V.-D., Schneider R.J., *New Fe-based highly active catalysts containing an imidazolium salt and a Schiff base for the removal of pollutants*, International Conference on Physics of Advanced Materials (ICPAM-10), September 22 – 28, 2014, Iași, Romania
9. Nadejde C., Neamtu M., Schneider R.J., Hodoroaba V.-D., *Catalytical removal of relevant pollutants from waters using nanocatalysts*. 1st Autumn School on Physics of Advanced Materials (PAMS-1), September 22 – 28, 2014, Iași, Romania
10. 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
11. Neamtu M., Grandjean D., Sienkiewicz A., de Alencastro L. F., Pulgarin C., *Comparative behavior of relevant micropollutants in different water matrices by UV₂₅₄ 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
12. Ignat I., Neamtu M., Volf I., Popa V. I. (2011) *Stability of plant polyphenols against UV irradiation*. Proceeding of Italic 6 Science & Technology of Biomasses: Advances and challenges from forest and agricultural biomasses to high added value products: processes and materials, Tuscia University, Viterbo, ISBN 978-88-95688-65-7, 141-145.
13. Neamtu M., De Alencastro, F. (2008) *Chemical assessment of the Bahlui River in north-eastern Romania. Case study: Pesticides and Persistent Organic Polutants (POPs)*. In *Obslete 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.
14. 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

15. Neamtu M., Popa D. M., Frimmel F. H. (2006) Photodegradation of endocrine disrupting chemicals nonylphenol and octylphenol in River Rhine and Lake Hohloh waters. In Humic Substances – Linking Structure to Functions. Proceeding of 13th Meeting of the International Humic Substances Society, Fritz H. Frimmel, Gudrun Abbt-Braun (Eds.), ISSN 1612-118X, 45-II, p.913-917
16. Zaharia C., Neamtu M., Yediler A., Surpateanu, M., Macoveanu M. (2005) Catalytic wet hydrogen peroxide oxidation of Reactive Procion Marine H-EXL dye solutions, in Proceedings of international scientific conference UNITECH 2005, ISBN 954-683-325-8, University Publishing house «V. Aprilov» - Gabrovo, vol II, 383-389
17. Bobu, M.-M., Siminiceanu, I., Neamtu, M. (2004) Paracetamol degradation in aqueous media by advanced oxidation processes. COFrRoCA 2004, Actes du Colloque Franco-Roumain de Chimie Appliquee, 539-540.
18. Siminiceanu I., Neamtu M., Bobu M.-M., Kinetics of paracetamol oxidation in water by UV/H₂O₂ photochemical process, 16th International Congress of Chemical and Process Engineering -CHISA 2004, Praga, Republica Cehă (CD ROM).
19. Neamtu M., Yediler A., Siminiceanu I., Kettrup A. (2003) Photo-Fenton Oxidation of C. I. Reactive Yellow 84 (RY84) and C. I. Reactive Red 120 (RR120) azo dye aqueous solutions, in Proceeding of 2nd International Congress on Ultraviolet Technologies, CD.
20. Neamtu M., Yediler A., Siminiceanu I., Macoveanu M., Kettrup A. (2002) Comparison of disperse red 354 azo dye degradation in water by several oxidation processes, in Proceeding of 5th IWA Chemical Industry group conference, 391-399.
21. Wang C., Yediler A., Lienert D., Neamtu M., Kettrup A. (2000) Toxicity evaluation of wastewater, dyestuffs and auxiliaries used in textile finishing industry to luminescent bacteria *Vibrio fischeri*, in CECOTOX, Book of abstracts, Bratislava, Slovakia, 185-186
22. Siminiceanu I., Neamtu M., (2000) Cinetique de la decomposition des colorants azoiques en milieu aqueux par le procede UV/H₂O₂, in CoFrRoCa 2000, ISBN 973-99703-3-8, 92-93.
23. Siminiceanu I., Neamtu M., Korosi I., (2000) Scaling –Up a Photochemical Reactor for Water Treatment, CHISA 2000, Praga, Republica Cehă (CD ROM).
24. Siminiceanu I., Neamtu M., Piaskovski S., (2000) Procedes photochimiques et electrochimiques pour le traitement de l' eau, in CoFrRoCa 2000, ISBN 973-99703-3-8, 8-9.
25. 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
26. Neamtu M., Sminiceanu I., (1998) Study of nitromusks degradation in water, in SICHEM'98, ISBN 973-9390-36-6, 306-311.

**Participări la manifestări științifice
naționale și internaționale
(prezentare orală sau poster)**

1. Goldschmidt 2023, Lyon, France, July 9-14, 2023. Maței A. E., Neamtu M., Coromelci C. G., Brinza L. Organic doped iron oxyhydroxides applications for dyes removal from wastewater
2. Chemical Science Symposium 2022 (Royal Society of Chemistry), November 10-11, 2022, London, UK, C. Coromelci, A. E. Maței, M. Neamtu, L. Brinza, Carbonates based nanoparticles synthesis, characterization and their application for wastewater treatment.
3. Catalysis Virtual 2020, September 21-22, 2020, Cristina Coromelci, Mircea Palamaru, Maria Ignat, Mariana Neamtu, TiO₂/PEDOT systems for visible light degradation of organic pollutants
4. 43rd International Semiconductor Conference CAS 2020, October 7 - 9, 2020, C.G. Coromelci, M. Palamaru, M. Neamtu, M. Ignat, Ultrasound assisted synthesis of carbon-nitrogen co-doped mesoporous titania for organic pollutants removal, www.imt.ro/cas
5. The 9th Global Conference on Materials Science and Engineering (CMSE2020), November 20-23, 2020, Online Conference, Cristina Coromelci, Mircea Palamaru, Maria Ignat, Mariana Neamtu, TiO₂ Thin Films for Visible Light Photodegradation of Wastewater Pollutants
6. 6th EuCheMS Chemistry Congress, September 11-15, 2016, Seville, Spain

7. *11th International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT), September 6-9, 2016, Aveiro, Portugalia*
8. *Designing New Heterogeneous Catalysts: Faraday Discussion (RSC), April 4-6, 2016, London, UK*
9. *1st International Caparica Conference on Pollutant Toxic Ions and Molecules, November 2-4, 2015, Caparica, Portugal*
10. *TechConnect World Innovation Conference Nanotech 2015, June 14-17, 2015, Washington, DC, Maryland, USA*
11. *ANAKON 2015, March 23-26, 2015, Graz, Austria*
12. *AFF2 Adlershofer Forschungsforum, November 11, 2014, Berlin, Germany*
13. *International Conference on Physics of Advanced Materials (ICPAM-10), September 22 – 28, 2014 Iasi, Romania*
14. *1st Autumn School on Physics of Advanced Materials (PAMS-1), September 22 – 28, 2014 Iasi, Romania*
15. *The European Conference PHYSICS OF MAGNETISM 2014 (PM'14), June 23-27, 2014, Poznań, Poland*
16. *The 38th International Symposium on Environmental Analytical Chemistry – ISEAC38, June 17-20, 2014, Lausanne, Switzerland*
17. *Workshop of COST FP0901, Septembrie 7-8, 2011, Viterbo, Italia*
18. *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*
19. *KontaktTUM Workshop für Multiplikatoren, Februarie 19–21, 2010, Munich, Germania*
20. *KontaktTUM, Septembrie 15-19, 2008, Munich, Germania.*
21. *ESTROM 2008 Conference, Septembrie 3-5, 2008, București, România.*
22. *9th International HCH and Pesticides Forum for Central and Eastern European, Caucasus and Central Asia Countries, Septembrie 20-22 2007, Chișinău, Republica Moldova*
23. *ESTROM Meeting. Septembrie 12–16, 2006, Iași, România*
24. *4th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA 2006), Noiembrie 8-10, 2006, Las Palmas, Gran Canaria, Spania*
25. *13th Meeting of the International Humic Substances Society IHSS 2006, 30 Iulie – 4 August 2006, Karlsruhe, Germania*
26. *Workshop on Water Chemistry “Water our Blue Gold”, Martie 15-17, 2006, Bursa, Turcia*
27. *Environmental Science and Technology in Romania (ESTROM). Mai 11-13, 2006, Tulcea, România*
28. *12 Interdisziplinäres Forschungskolloquium, Martie 22, 2006, Karlsruhe, Germania*
29. *International scientific conference UNITECH 2005, Noiembrie 24 – 25, 2005, Gabrovo, Bulgaria*
30. *XIX Reunión Científica - SEA05, Sociedad Española de Arcillas, Septembrie 27 -29, 2005, Salamanca, Spania*
31. *Analytical Sciences in Environmental and Geological Research. 20 Septembrie 2005, EAWAG/EMPA Akademie, Dübendorf, Elveția*
32. *ESTROM Kick-off Meeting. Mai 19-20, 2005, Cluj-Napoca, România*
33. *10 Interdisziplinäres Forschungskolloquium. 14 Octombrie 2004, Karlsruhe, Germania*
34. *European Conference on UV Radiation. Effects and Technologies. UV Karlsruhe 2004, Septembrie 22-24, 2004, Karlsruhe, Germania*
35. *COFrRoCA 2004, Actes du Colloque Franco-Roumain de Chimie Appliquee, Septembrie 22-26, 2004, Slănic Moldova, România*
36. *16th International Congress of Chemical and Process Engineering CHISA 2004, August 22-26, 2004, Praga, Republica Cehă*
37. *A XXVIII-a Conferința Națională de Chimie, Octombrie 6-8, 2004, Călimănești-Căciulata, România*
38. *2nd International Congress on Ultraviolet Technologies IUVA, Iulie 9-11, 2003, Viena, Austria*
39. *3rd IWA Conference on Oxidation Technologies for Water and Wastewater Treatment, Mai 18-22, 2003, Goslar, Germania*
40. *Annual General Meeting of Marie Curie Fellowship Association AGM 2003, Aprilie 5-6, 2003, Brussels, Belgia*
41. *European Meeting on Chemical Industry and Environment EMChIE 2003, Februarie 12-14, 2003, Las Palmas de Gran Canaria, Spania*
42. *5th IWA Chemical Industry group conference, Noiembrie 13-15, 2002, Nîmes, Franța*
43. *Deuxieme colloque franco-roumain de chimie appliquee CoFrRoCa 2002, Octombrie 10-11, 2002, Bacău, România*
44. *1st International Conference on Environmental Engineering and Management, ICEEM/01, Septembrie 26-28, 2002, Iași, Romania*

45. *15th International Congress of Chemical and Process Engineering CHISA'2002, August 25-29, 2002, Praga, Republica Cehă*
46. *3rd European Congress of Chemical Engineering ECCE, Iunie 26-28, 2001, Nürnberg, Germania*
47. *Deuxieme colloque franco-roumain de chimie appliquee CoFrRoCa 2000, Octombrie 12-14, 2000, Bacău, România*
48. *7th Regional Meeting of the Central and East European Section of SECOTOX, Septembrie 25-27, 2000, Bratislava, Slovacia*
49. *CHISA 2000, 27- 31 August, 2000, Prague, Republica Cehă*
50. *European Meeting on Chemical Industry and Environment/EMCHIE 99, September 1- 3, 1999, Krakow, Polonia*
51. *CEPS 6 Chemical Engineering Processes Symposium, 6th Edition, Octombrie 23-25, 1998, Piatra Neamț, România*
52. *SICHEM'98 International Symposium of Chemical Engineering, Octombrie 20-23, 1998, București, România*
53. *International Congress of Chemical and Process Engineering CHISA'98, August 23-28, 1998, Praha, Czech Republic*
54. *1st International Conference of the Chemical Societies of the South-East European Countries, Iunie 1-4, 1998, Halkidiki, Grecia*
55. *A XXIV-a Sesiune Națională de Comunicări Științifice, Octombrie 7-9, 1998, Călimănești-Căciulata, România*
56. *Al II-lea Simpozion Internațional „Cercetarea Interdisciplinară Zonală, Decembrie 11-12, 1997, Timișoara, România*
57. *Simpozion științific Jubiliar „75 ani de învățământ chimic românesc la Alma Mater Napocensis, Mai 20-21, 1994, Cluj-Napoca, România*

