

LISTA DE LUCRĂRI

Prof. Dr. SIMONESCU, S. CLAUDIA MARIA

1⁰. TEZA DE DOCTORAT

T1. *Strategii neconvenționale de obținere a sulfurilor metalelor tranziționale* - **Simonescu Claudia Maria**, conducător științific: Acad. Prof. Dr. Doc. Maria Brezeanu, CPI Dr. Luminița Patron;

2⁰. ARTICOLE/STUDII PUBLICATE

Ris 1. **Simonescu, C.-M.**, Dumitru, F., Zărnescu, B., Culiță, D.C., Răzvan, A., Oprea, O., Truscă, R., Vasile, E., Competitive Adsorption of Aqueous Cd(II) and Pb(II) Solutions onto Silicas Synthesized with Saponin as Template Agent. *J. Compos. Sci.* 2024, 8, 227. <https://doi.org/10.3390/jcs8060227> WOS:001256458400001

Ris2. **Simonescu, C.M.**, Chipurici, P., Călinescu, I., Vinătoru, M., Toma, E.N., Culiță, D.C., Ene, V.L., Mason, T.J., Effects of ultrasounds and microwaves on the morphology and adsorption capacity of calcium alginate, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 682 (2024), Article Number 132906 WOS:001137513900001

Ris3. Vereș, P-A., **Simonescu C.M.**, Ciocîrlan, O., Deleanu, C., Effect of the packaging type on the quality parameters of sea buckthorn syrup, *U.P.B. Sci. Bull., Series B*, Vol. 85, Iss. 3, 2023, 53-64 (**autor de corespondență**), WOS:001052966300005

Ris 4. Toma, E., **Simonescu, C.M.**, Chipurici, P., Călinescu, I., Deleanu, C., Cadmium and Lead Competitive Adsorption onto Calcium Alginate Prepared by Traditional and Green Methods, *U.P.B. Sci. Bull., Series B*, Vol. 85, Iss. 2, 2023, 21-34 (**autor de corespondență**) WOS:001015437100002

Ris 5. Cimbru, A.M., Rikabi, A.A.K., Oprea, O., Grosu, A.R., Tanczos, S.-K., Simonescu, C.M., Pașcu, D., Grosu, V.-A., Dumitru, F., Nechifor, G., pH and pCl Operational Parameters in Some Metallic Ions Separation with Composite Chitosan/Sulfonated Polyether Ether Ketone/Polypropylene Hollow Fibers Membranes, *Membranes* 2022, 12, 833. <https://doi.org/10.3390/membranes12090833> WOS:000857021200001

Ris 6. **Simonescu, C.M.**, Culita, D.C., Tatarus, A., Mocanu, T., Marinescu, G., Mitran, R.A., Atkinson, I., Kuncser, A., Stanica, N., Novel Magnetic Nanocomposites Based on Carboxyl-Functionalized SBA-15 Silica for Effective Dye Adsorption from Aqueous Solutions, *Nanomaterials* 2022, 12(13), Article Number 2247, DOI10.3390/nano12132247. <https://doi.org/10.3390/nano12132247> WOS: 000824094900001

Ris 7. **Simonescu, C.M.**, Tătăruș, A., Culiță, D.C. Stănică, N., Butoi, B., Kuncser, A., Facile Synthesis of Cobalt Ferrite (CoFe₂O₄) Nanoparticles in the Presence of Sodium Bis (2-ethyl-hexyl) Sulfosuccinate and Their Application in Dyes Removal from Single and Binary Aqueous Solutions, *Nanomaterials* 11(11) 2021, 3128; <https://doi.org/10.3390/nano11113128> WOS:000723802900001

Ris. 8. Tătăruș, A., **Simonescu, C.M.**, Nechifor, G., Scutariu, R., Iancu, V.I., Chiriac, L.F., Development of a new high-performance liquid chromatography method with diode array detector (HPLC-DAD) for the detection of Congo Red and Methyl Orange dyes from synthetic water solutions, U.P.B. Sci. Bull., Series B, Vol. 83, Iss. 4, 2021, 85-94 (**autor de corespondență**) WOS: 000731356100008

Ris. 9. **Simonescu, C.M.**, Tătăruș, A., Culiță, D.C. Stănică, N.; Ionescu, I.A., Butoi, B.; Banici, A.-M, Comparative Study of CoFe₂O₄ Nanoparticles and CoFe₂O₄-Chitosan Composite for Congo Red and Methyl Orange Removal by Adsorption. Nanomaterials 2021, 11, 711. <https://doi.org/10.3390/nano11030711> WOS: 000633970600001

Ris. 10. **Simonescu, C.M.**, Mason, T.M., Călinescu, I., Lavric, V., Vinătoru, M., Melinescu, A., Culiță, D.C., Ultrasound assisted preparation of calcium alginate beads to improve absorption of Pb⁺² from water, Ultrasonics - Sonochemistry 68 (2020) 105191 WOS:000554511700013

Ris. 11. **Simonescu, C.M.**, Lavric, V., Musina, A., Antonescu, O.M., Culita, D.C., Marinescu, V., Tardei, C., Oprea, O., Pandele, M.A., Experimental and modeling of cadmium ions removal by chelating resins, Journal of Molecular Liquids Volume 307, 1 June 2020, Article number 112973 WOS:000536900800019

Ris. 12. **Simonescu, C.M.**, Melinescu, A., Culita, D.C., Hasan, D., Zarnescu, B., Ciuca, M., Evaluation of zeolitic materials synthesized from coal fly ash as potential Cd(II) adsorbents from aqueous solutions, Revista de Chimie 71(9) (2020) 125-142, <https://doi.org/10.37358/RC.20.9.8323>

Ris. 13. **Simonescu, C.M.**, Culita, D.C., Marinescu, V., Tardei, C., Talpeanu, D., Hydroxyapatite nanoparticles for acidic mine waters remediation, Revista de Chimie 70(9) (2019) 3167 – 3175 WOS:000489958900016

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Ris. 16. Culita, D.-C., **Simonescu, C.M.**, Pătescu, R.-E., Stanica, N., Chitosan-based magnetic composites – efficient adsorbents for removal of Pb(II) and Cu(II) from aqueous mono and bicomponent solutions Revista de Chimie 69(9) (2018) 2323-2330, ISSN 0034-7752 WOS:000449628400004

Ris. 17. Busuioc, T.L., **Simonescu, C.M.**, Nechifor, G., Rădoi, E., Gîrbea, I.E., Kinetic studies of Zn(II) and Pb(II) removal from single and binary solutions by synthetic hydroxyapatite-based nanopowders, Revista de Chimie 69(6) (2018) 1293-1297, ISSN 0034-7752 WOS:000438397400001

Ris. 18. Pătescu R.-E., **Simonescu C.M.**, Nechifor, G., Tardei, C., Ionascu, C.I., *The influence of synthesis conditions on hydroxyapatite adsorption characteristics in the process of Zn(II) and Pb(II)*

removal from single and binary solutions, *Revista de Chimie* 69(4) (2018) 759-766, WOS:000433223000002 ISSN 0034-7752

Ris. 19. Enache, D.F., Vasile, E., **Simonescu C.M.**, Culita D., Vasile, E., Oprea, O., Pandele, A.M., Razvan, A., Dumitru, F., Nechifor, G., *Schiff base-functionalized mesoporous silicas (MCM-41, HMS) as Pb(II) adsorbents*, *RSC Adv.* 8 (2018), p. 176-189, DOI: 10.1039/c7ra12310h, WOS:000419187600021

Ris. 20. Mousa, N.E., **Simonescu C.M.**, Pătescu, R.-E., Lavric, V., Culita D.C., *Regeneration of calcium alginate and chitosan coated calcium alginate sorbents to be reused for lead (II) removal from aqueous solutions*, *Revista de Chimie* 68(9) (2017) 1992-1996 (**autor de corespondență**) ISSN 0034-7752 WOS:000393230400025

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Ris. 22. Pătescu R.-E., Busuioc T.L., Nechifor G., **Simonescu C.M.**, Deleanu C., *Applicability of chitosan/hydroxyapatite composites for adsorptive removal of lead, copper, zinc and nickel from synthetic aqueous solutions*, *U.P.B. Sci. Bull., Series B*, Vol. 79, Iss. 1 (2017) 119-134, ISSN 1454-2331 (autor de corespondență) WOS:000403090200013

Ris. 23. Culita D.C., **Simonescu C.M.**, Patescu R.-E., Stanica N., Preda S., Munteanu C., Oprea O., *Polyamine Functionalized Magnetite Nanoparticles as Novel Adsorbents for Cu(II) Removal from Aqueous Solutions*, *Journal of Inorganic and Organometallic Polymers and Materials* 17(2) (2017) 490-502; ISSN: 1574-1443; DOI:10.1007/s10904-016-0491-7 WOS:000396999500012

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Ris. 25. Busuioc, L.T., **Simonescu C.M.**, Pătescu, R.-E., Onose, C., *Removal of lead(II), nickel(II), zinc(II) and copper(II) from multi-metal systems by chitosan-glutaraldehyde beads*, *Revista de Chimie* 67(12) (2016) 2504-2510 (**autor de corespondență**) ISSN 0034-7752 WOS:000393230400025

Ris. 26. Mousa, N.E., **Simonescu C.M.**, Pătescu, R.-E., Onose, C., Tardei, C., Culiță, D.C., Oprea, O., Patroi, D., Lavric, V., *Pb²⁺ removal from aqueous synthetic solutions by calcium alginate and chitosan coated calcium alginate*, *Reactive and Functional Polymers*, 109 (2016) 137-150 10.1016/j.reactfunctpolym.2016.11.001, (**autor de corespondență**) WOS:000390510200019

Ris. 27. Pătescu, R.-E., **Simonescu, C.M.**, Busuioc, L.T., Onose, C., Melinescu, A., *Simultaneous Removal of Lead(II), Nickel(II), Zinc(II) and Copper(II) from Aqueous Solutions by Nano-hydroxyapatite Synthesized by Microwave Field*, *Revista de Chimie* 67(10) (2016) 1899-1905, ISSN 0034-7752 (**autor de corespondență**) WOS:000388359900002

Ris. 28. Țârdei, C., **Simonescu, C.M.**, Onose, C., Sava, B.A., Boroica, L., Sbârcea, B.-G., *Evaluation of Lab Scale Nano-hydroxyapatites for Removal of Lead Ions from Aqueous Solutions*, *Romanian Journal of Materials*, ISSN 2457-502X, ISSN-L 1583186, 46(3) (2016) 289-295, WOS:000383730900005

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Ris. 30. Capatina, C., **Simonescu C.M.**, Dădălău N., Cirtina, D., *Comparative Study of Air Pollution with PM_{2.5} and PM₁₀ in Târgu-Jiu – Rovinari – Turceni from Gorj County*, Revista de Chimie 67(7) (2016) 1247-1254, ISSN 0034-7752, (**autor de corespondență**) WOS:000385513000003

Ris. 31. **Simonescu C.M.**, Pătescu, R.-E., Busuioc, L.T., Tache, A., Deleanu C, *Lead removal from synthetic aqueous solutions by chitosan/hydroxyapatite composites*, Conference: 16th International Multidisciplinary Scientific Geoconference (SGEM) Location: Albena, BULGARIA Date: 30 JUN -6 July, 2016 ECOLOGY & ENVIRONMENTAL PROTECTION, ENVIRONMENTAL LEGISLATION, MULTILATERAL RELATIONS & FUNDING OPPORTUNITIES Book 5 – Ecology, Economics, Education and Legislation, VOL 1, Pages: 391 - 399 DOI:10.5593/sgem2016B51., ISBN:978-619-7105-65-0 Published: 2016 WOS: 000391519100052

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Ris. 33. Culiță D.C., **Simonescu C.M.**, Pătescu, E.-R., Dragne, M., Stanica N., and Oprea O., *o-Vanillin functionalized mesoporous silica - coated magnetite nanoparticles for efficient removal of Pb(II) from water*, Journal of Solid State Chemistry, 238 (2016) 311–320 <http://dx.doi.org/10.1016/j.jssc.2016.04.003> WOS:000375635200044

Ris. 34. Cirtina, D., Capatina, C., **Simonescu C.M.**, *Assessment of Groundwater Quality in Areas Affected by Industrial Activities in Gorj County*, Revista de Chimie 67(3) (2016) 538 – 542, ISSN 0034-7752, (**autor de corespondență**) WOS:00375364800032

Ris. 35. Sava, B.A., Tardei, C., Simonescu, C.M., Boroica, L., Melinescu, A., *Hydroxyapatite nanopowders obtained by sol-gel method, synthesis and properties*, Optoelectronics and Advanced Materials – Rapid Communications Vol. 9, No. 11-12, Nov. – Dec. 2015, p. 1415 – 1424 WOS:000368046800015

Ris. 36. **Simonescu C.M.**, Busuioc, T.L., Lilea, V., Dragne, M., Tardei, C., *Copper removal from synthetic aqueous solutions by chemically modified beads of chitosan*, Conference: 15th International Multidisciplinary Scientific Geoconference (SGEM) Location: Albena, BULGARIA Date: JUN 18-24, 2015 ECOLOGY, ECONOMICS, EDUCATION AND LEGISLATION, VOL I Book Series: International Multidisciplinary Scientific GeoConference-SGEM Pages: 169-176 DOI:10.5593/sgem2015B51., ISBN:978-619-7105-39-1 Published: 2015 WOS:000370813400022

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Ris. 39. Cirtina, D., Capatina, C., **Simonescu C.M.**, *Assessment of Motru and Motru Sec Rivers Quality by Monitoring of Physico-chemical Parameters and Water Quality Index*, Revista de Chimie 66(8) (2015) 1184 – 1189, ISSN 0034-7752, (**autor de corespondență**) WOS:000361124600023

Ris. 40. Culiță D.C., **Simonescu C.M.**, Dragne M., Stanica N., Munteanu C., Preda S., Oprea O., *Effect of surfactant concentration on textural, morphological and magnetic properties of $CoFe_2O_4$ nanoparticles and evaluation of their adsorptive capacity for Pb(II) ions*, Ceramics International 41(2015), 13553-13560 WOS:000362860900128 <http://dx.doi.org/10.1016/j.ceramint.2015.07.150>

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Ris. 49. Melinescu A., Târdei, C., **Simonescu C.M.**, Marinescu, V., Miclea, A., *Removal of Pb^{2+} toxic ions from aqueous solutions on porous hydroxyapatite granules*, Romanian Journal of Materials, (Rev. Rom. Mater.) 43(2) (2013) 223-226, WOS:000320638300013

Ris. 50. Căpățină C., Simonescu C.M., Lazăr Ghe., *Preliminary Data regarding the Content of Heavy Metals from the Soils of Târgu-Jiu Area*, Revista de Chimie 64(2) (2013) 218-223, (autor de corespondență), ISSN 0034-7752, WOS:000315756400023

Ris. 51. Căpățină C., Gămăneci Gh., **Simonescu C.M.**, Florea, Ghe., *Studies on the recovery of coal tailings from Rovinari mining*, Metalurgia International, ISSN 1582-2214, vol. XVIII Nr.3, pg. 5 - 8, 4 pg. 2013WOS:000313930000001

Ris. 52. Căpățină C., Gămăneci Gh., **Simonescu C.M.**, *Impact Assessment of the Surface Mining Exploitation on the Environment in the District of Gorj, Romania*, Journal of Environmental Protection and Ecology 13(3) (2012) 1375 – 1390, ISSN 1311-5065 WOS:000310557300014

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Ris. 56. Căpățină C., **Simonescu C.M.**, Gămăneci Ghe., Florea, Ghe., *Comparative study regarding air pollution with heavy metals in Târgu-Jiu-Rovinari-Turceni area from Gorj County*, Metalurgia International XVII (7) (2012) 63-67, ISSN 1582-2214, WOS:000304382600011

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Ris. 69. **Simonescu C. M.**, Carp O., Căpățină C., *Synthesis and characterization of Cu₇S₄ (anilite) obtained from copper:thiosulfate system*, Journal of Optoelectronics and Advanced Materials 10(10) (2008) 2700-2702, ISSN 1454-4164, WOS:000260520900039

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