

# LISTA DE LUCRĂRI

Prof. Dr. SIMONESCU, S. CLAUDIA MARIA

## 1<sup>0</sup>. TEZA DE DOCTORAT

**T1.** *Strategii neconvenționale de obținere a sulfurilor metalelor tranziționale* - **Simonescu Claudia Maria**, conducător științific: Acad. Prof. Dr. Doc. Maria Brezeanu, CP1 Dr. Luminița Patron;

## 2<sup>0</sup>. ARTICOLE/STUDII PUBLICATE

**Ris 1.** 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 2.** 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 3. Cimbru, A.M., Rikabi, AAK.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 4.** **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 5.** **Simonescu, C.M.**, Tătăruș, A., Culiță, D.C. Stănică, N., Butoi, B., Kuncser, A., Facile Synthesis of Cobalt Ferrite (CoFe<sub>2</sub>O<sub>4</sub>) 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. 6.** 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. 7.** **Simonescu, C.M.**, Tătăruș, A., Culiță, D.C. Stănică, N.; Ionescu, I.A., Butoi, B.; Banici, A.-M, Comparative Study of CoFe<sub>2</sub>O<sub>4</sub> Nanoparticles and CoFe<sub>2</sub>O<sub>4</sub>-Chitosan Composite for Congo Red and

Methyl Orange Removal by Adsorption. *Nanomaterials* 2021, 11, 711. <https://doi.org/10.3390/nano11030711> WOS: 000633970600001

**Ris. 8. 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. 9. 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. 10. 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. 11. 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

**Ris. 12. Simonescu, C.M.**, Melinescu, A., Ciuca, M., Zarnescu, B., Removal of copper(II) ions from aqueous solutions by hydroxyapatite-based materials prepared from eggshells, *Revista de Chimie* 70(6) (2019) 1897-1902 WOS:000475860100002

**Ris. 13. Simonescu, C.M.**, Tanase, I.-R., Purcaru, I.N., Tardei, C., Marinescu, V., Fixed-bed column adsorption studies using synthetic hydroxyapatite for Pb(II) removal from aqueous solutions, *Revista de Chimie* 70(5) (2019) 1758-1764 WOS:000470086400051

**Ris. 14. 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. 15. 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. 16. 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. 17. 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. 18.** 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

**Ris. 19.** Enache, D.F., Vasile, E., **Simonescu C.M.**, Razvan, A.G., Nicolescu, A., Nechifor, A.C., Oprea, O., Pătescu R.-E., Onose, C., *Cysteine-functionalized silica-coated magnetite nanoparticles as potential nanoadsorbents*, Journal of Solid State Chemistry 253 (2017) 318-328 <https://doi.org/10.1016/j.jssc.2017.06.013> ISSN: 0022-4596 WOS:000406572600044

**Ris. 20.** 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. 21.** 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

**Ris. 22.** Pătescu R.-E., **Simonescu C.M.**, Onose, C., Busuioc T.L., Păsărică, D.E., Deleanu C., *Simultaneous removal of lead and nickel ions from aqueous synthetic solutions by chitosan coated cobalt ferrite*, Revista de Chimie 68(1) (2017) 1-5 (**autor de corespondență**) ISSN 0034-7752 WOS:00000395499200001

**Ris. 23.** 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. 24.** Mousa, N.E., **Simonescu C.M.**, Pătescu, R.-E., Onose, C., Tardei, C., Culiță, D.C., Oprea, O., Patroi, D., Lavric, V., *Pb<sup>2+</sup> 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. 25.** 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. 26. 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

**Ris. 27.** **Simonescu C.M.**, Pătescu, R.-E., Busuioc, L.T., Onose, C., Melinescu, A., Lilea, V., *Application of Nano-hydroxyapatite Synthesized by Microwave in Efficient Removal of Lead(II) and Copper(II) from Aqueous Solution*, Revista de Chimie 67(8) (2016) 1498-1503, ISSN 0034-7752 WOS:000384514200018

**Ris. 28.** Capatina, C., **Simonescu C.M.**, Dădălău N., Cirtina, D., *Comparative Study of Air Pollution with PM<sub>2.5</sub> and PM<sub>10</sub> in Târgu-Jiu – Rovinari – Turceni from Gorj County*, Revista de Chimie 67(7) (2016) 1247-1254, ISSN 0034-7752, (**autor de corespondență**) WOS:000385513000003

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**Ris. 30. Simonescu C.M.**, Tardei, C., Culiță, D.C., Marinescu, G., Marinescu, V., *Facile synthesis, characterization and sorption properties of chitosan/hydroxyapatite composites*, Conference: 16th International Multidisciplinary Scientific Geoconference (SGEM) Location: Albena, BULGARIA Date: 30 JUN – 6 July, 2016 MICRO & NANO TECHNOLOGIES ADVANCED IN BIOTECHNOLOGY Book 6 – Nano, Bio and Green – Technologies for a Sustainable Future Conference Proceedings VOL 1, Pages: 127 - 134 DOI:10.5593/sgem2016B61., ISBN:978-619-7105-68-1 Published: 2016 WOS:000391648800017

**Ris. 31.** 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. 32.** 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. 33.** 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. 34. 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

**Ris. 35. Simonescu C.M.**, Melinescu, A., Melinte, I., Pătescu, E.-R., Dragne, M., *Copper removal from synthetic aqueous solutions by hydroxyapatite granules synthesized using microwave heating*, 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: 177-184 DOI:10.5593/sgem2015B51, ISBN:978-619-7105-39-1 Published: 2015 WOS:000370813400023

**Ris. 36.** Busuioc, T.L., **Simonescu C.M.**, Pătescu, E.-R., Onose, C., Melinte, I., Căpățină, C., Popovici, R.A., Cristea, T., *The Kinetic and Modeling Study of Zinc Sorption onto Chitosan-*

*glutaraldehyde Beads*, Revista de Chimie 66(11), 1728 – 1732, 2015 (**autor de corespondență**), ISSN 0034-7752, WOS:000368213500002

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**Ris. 38.** 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>

**Ris. 39.** Lazăr G., Camelia C., **Simonescu C. M.**, *Analysis of nitrogen oxides levels measured in Turceni area*, Revista de Chimie 65(11) (2014) 1260 – 1265, ISSN 0034-7752, (**autor de corespondență**) WOS:000345946300003

**Ris. 40.** Căpățînă C., Lazăr G., Pascu L.F., **Simonescu C. M.**, *Analysis of Tropospheric Ozone Content in the Air from Targu-Jiu and Rovinari Areas*, Revista de Chimie 65(12) (2014) 1426 – 1434, ISSN 0034-7752, (**autor de corespondență**) WOS:000345946400007

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**Ris. 42.** **Simonescu C.M.**, Tătăruș, A., Tardei, C., Patroi, D., Dragne, M., Culiță, D.C., Pătescu, R.-E., Busuioc, L.T., Melinte, I., *Nano and Micro-hydroxyapatite Particles for Lead Removal from Wastewater*, Revista de Chimie 66(5) (2015) 732-742, ISSN 0034-7752, WOS:000355126000028

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**Ris. 49.** 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. 50.** 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

**Ris. 51.** **Simonescu C.M.**, Ferdeş M., *Fungal biomass for Cu(II) uptake from aqueous system*, Polish Journal of Environmental Studies 21(6) (2012) 1831-1839, WOS:000313371500037

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**Ris. 54.** 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

**Ris. 55.** Căpățină C., **Simonescu C.M.**, Florea, Ghe., *Trends in copper-colored glasses obtaining* Metalurgia International XVII(4) (2012) 180-184, ISSN 1582-2214, WOS:000300590900036

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- Ris. 68.** Lazăr G., Căpățină C., **Simonescu C. M.**, *Evaluation of the heavy metals content in soil around a thermal station*, Revista de Chimie 59(8) (2008) 939-943, ISSN 0034-7752, WOS:000260067700023
- Ris. 69.** Căpățină C., **Simonescu C. M.**, *The Effect of Crystallization on the Basicity in the System Li<sub>2</sub>O-2SiO<sub>2</sub>*, Ceramics-Silikaty 52(2) (2008) 77-84, ISSN 0862-5468, WOS:000259225500004
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30.10.2023