

LISTA LUCRĂRILOR ȘTIINȚIFICE PUBLICATE

Conf. dr. VARVARA SIMONA CAMELIA

A. Teza de doctorat

"Aspecte morfologice și cinetice privind electrodepunerea cuprului din soluții acide pe bază de sulfat în prezență de aditivi organici", Universitatea „Babeș-Bolyai” din Cluj-Napoca, 2003
Conducător științific: Prof. dr. Ionel Cătălin Popescu

B. Cărți și capitole în cărți

1. L. M. Mureșan, **Simona Camelia Varvara**, "Leveling and brightening mechanisms in metal electrodeposition", în „*Metal Electrodeposition*” (Editor: Nunez Magdalena), Nova Science Publishers, USA, **2005**, pp. 1-45 (ISBN 1-59454-456-5).
2. **Simona Camelia Varvara**, L. M. Mureșan, *Metode electrochimice de investigare a electrodepunerii metalelor. Studiul electrodepunerii cuprului*, Editura Casa Cărții de Știință, Cluj-Napoca, **2008**, 151 pp. (ISBN 978-973-133-290-1).
3. B. Fabbri, S. Gualtieri, **Simona Varvara**, M. Gligor, *Archaeometric characterisation of Foeni pottery from the Alba Iulia-Lumea Nouă archaeological site (Romania)*, în C. Cosma, Simona Varvara, M. Gligor (Eds.), *Vârste absolute prin metode nucleare de datare*, Editura Quantum, Cluj-Napoca, **2008**, pp. 128-139 (ISBN 978-973-888-350-5)

C. Lucrări indexate ISI

1. M.S. Kirgiz, J. Mirza, S. Cuc, D. Prodan, C. Sarosi, I. Perhaita, R. Carpa, D. Popa, **Simona Varvara**, M. Popa, *Physico-Antibacterial Feature and SEM Morphology of Bio-Hydraulic Lime Mortars Incorporating Nano-Graphene Oxide and Binary Combination of Nano-Graphene Oxide with Nano Silver, Fly Ash, Zinc, and Titanium Powders*, **Buildings**, **2023**, 13(1), 172; <https://doi.org/10.3390/buildings13010172>
2. D. Piciu, S. Bran, M. Moldovan, **Simona Varvara**, A. Piciu, S. Cuc, C. Moisescu-Goia, E. Barbus, A. Mester, F. Onisor, *Radioiodine-131 Therapy used for differentiated thyroid cancer Can*

impair titanium dental implants: an in vitro analysis, **Cancers**, **2023**, 15(9), 2558, <https://doi.org/10.3390/cancers15092558>

3. D. Popa, D. Prodan, **Simona Varvara**, M. Popa, S. Cuc, C. Sarosi, M. Moldovan, R. Ivan, R. Ene, *Properties evolution of some hydraulic mortars incorporating graphene oxides*, **Buildings**, **2022**, 12(6), 864, <https://doi.org/10.3390/buildings12060864>

4. G. Damian, **Simona Varvara**, *Assessment of Cyprinus carpio scales as a low-cost and effective biosorbent for the removal of heavy metals from the acidic mine drainage generated at Rosia Montana Gold Mine (Romania)*, **Water**, **2022**, 14(22), 3734, <https://doi.org/10.3390/w14223734>

5. **Simona Varvara**, G. Damian, R. Bostan, M. Popa, *Inhibition effect of Tantum Rosa drug on the corrosion of copper in 3.5 wt.% NaCl solution*, **International Journal of Electrochemical Science**, **2022**, 17(9), 220958, <https://doi.org/10.20964/2022.09.56>

6. **Simona Varvara**, C. Berghian-Grosan, G. Damian, M. Popa, F. Popa, *Combined Electrochemical, Raman Analysis and Machine Learning Assessments of the Inhibitive Properties of an 1,3,4-Oxadiazole-2-thiol derivative against carbon steel corrosion in HCl solution*, **Materials**, **2022**, 15(6), 2224, <https://doi.org/10.3390/ma15062224>

7. D. Prodan, M. Moldovan, G. Furtos, C. Saros, M. Filip, I. Perhait, R. Carpa, M. Popa, S. Cuc, **Simona Varvara**, D. Popa, *Synthesis and characterization of some graphene oxide powders used as additives in hydraulic mortars*, **Applied Sciences Basel**, **2021**, 11(23), 11330; <https://doi.org/10.3390/app112311330>

8. **Simona Varvara**, C. Berghian-Grosan, R. Bostan, R. Lucacel Ciceo, Z. Salarvand, M. Talebian, K. Raeissi, J. Izquierdo, R. M. Souto, *Experimental characterization, machine learning analysis and computational modelling of the high effective inhibition of copper corrosion by 5-(4-pyridyl)-1,3,4-oxadiazole-2-thiol in saline environment*, **Electrochimica Acta**, **2021**, 398, 139282, <https://doi.org/10.1016/j.electacta.2021.139282>

9. **Simona Varvara**, S. A. Dorneanu, A. Okos, L.M. Muresan, R. Bostan, M. Popa, D. Marconi, P. Ilea, *Dissolution of metals in different bromide based systems: Electrochemical measurements and spectroscopic investigations*, **Materials**, **2020**, 13(6), 3630, <https://doi.org/10.3390/ma13163630>

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14. **Simona Varvara**, L. Gaina, R. Bostan, F. Popa, A. Grozav, *Phenothiazinyl-thiazolyl-hydrazine derivatives as corrosion inhibitors for carbon steel in 1.0 M HCl: Electrochemical, SEM-EDX and DFT investigations*, **International Journal of Electrochemical Science**, **2018**, 13(9) pp. 8338-8364, <https://doi.org/10.20964/2018.09.32>.
15. D. Popa, R. Carpa, M. Moldovan, D. Prodan, **Simona Varvara**, M. Golumbeanu, M. Popa, *Study on the importance of physicochemical characteristics from the walls in the rehabilitation works of heritage buildings*, **Journal of Environmental Protection and Ecology**, **2018**, 19(3), pp. 1166-1174, WOS:000456590500023
16. **Simona Varvara**, R. Bostan, O. Bobis, L. Gaina, F. Popa, V. Mena, R. M. Souto, *Propolis as a green corrosion inhibitor for bronze in weakly acidic solution*, **Applied Surface Science**, **2018**, 426, pp.1100-1112, <https://doi.org/10.1016/j.apsusc.2017.07.230>
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C. Participări la conferințe naționale și internaționale (selecție)

1. G. Damian, **S. Varvara**, S. A. Dorneanu, A. Okos, M. Popa, R. Bostan, L. Muresan, P. Ilea, XPS and SEM-EDX investigations of the dissolution products of several metals in an acidic bromine-containing lixiviant, *7th International Congress "Engineering, Environment and Materials in Process Industry" EEM2021*, Jahorina, 17-19 martie 2021, participare on-line.

2. G. Damian, Camelia Berghian-Grosan, F. Popa, M. Popa, **S. Varvara**, Corrosion inhibition of carbon steel in hydrochloric acid solution using 5-(4-Pyridyl)-1,3,4-oxadiazole-2-thiol, *1st Corrosion and Materials Degradation Web Conference*, 17-19 mai 2021, participare on-line.

3. G. Damian, **S. Varvara**, S. A. Dorneanu, M. Popa, R. Bostan, L. Muresan, P. Ilea, Electrochemical Behavior of Several Metals from Waste Printed Circuit Boards in Acidic Brominated Lixiviants, *71st Annual Meeting of the International Society of Electrochemistry: "Electrochemistry towards Excellence"* Belgrade Online, 2020.

4. M. I. Frîncu, S. A. Dorneanu, **S. Varvara**, P. Ilea, Selective electroextraction of copper from aqueous leaching solutions obtained during the recycling of waste printed circuit boards using the KBr + HBr system, *71st Annual Meeting of the International Society of Electrochemistry: "Electrochemistry towards Excellence"* Belgrade Online, 2020.

5. **S. Varvara**, S.A. Dorneanu, A. Okos, R. Bostan, M. Popa, L.M. Muresan, P. Ilea, An EIS study of metals dissolution mechanism in bromide-based electrolytes used as lixiviant for waste printed circuit boards, *7th Regional Symposium on Electrochemistry for South-East Europe (RSE-SEE 7)*, 27-30 mai, 2019, Split, Croatia.

6. J. Izquierdo, G. Caniglia, **S. Varvara**, R.M. Souto, SECM Kinetic Study of the Heterogeneous Adsorption of Green Corrosion Inhibitors, *SECM-10 Workshop*, 29septembrie – 30 octombrie, 2019, Paris - Fontainebleau, France.



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8. **S. Varvara**, S. A. Dorneanu, P. Ilea, R. Bostan, M. Popa, An electrochemical study on the dissolution of Cu, Au and Ag from WPCBs in acidic bromide-based electrolytes, *6th International Conference on Energy and Environment Research: “Energy and environment: challenges towards circular economy”*, 22-25 iulie, 2019, Aveiro, Portugalia.
9. J. Izquierdo, G. Caniglia, **S. Varvara**, R. M. Souto, Microscale investigation of the heterogeneous adsorption kinetics of new green corrosion inhibitors, *XL Meeting of the Specialized Group of Electrochemistry of The Royal Spanish Society of Chemistry and XX Iberian Meeting of Electrochemistry*, 9-12 iulie 2019, Huelva, Spania.
10. G. Damian, S. A. Dorneanu, **S. Varvara**, M. Popa, R. Bostan, P. Ilea, Effect of pH on the electrochemical behavior of Zn, Fe and Ni in brominated leaching systems, *12th National Symposium with international participation Environment & Progress*, 15-16 noiembrie 2019, Cluj-Napoca, Romania,
11. **S. Varvara**, S.A. Dorneanu, R. Bostan, M. Popa, R. Truță, P. Ilea, Electrochemical dissolution behaviour of several metals from WPCBs in different bromide -based electrolytes, *International Symposium of Chemical Engineering and Materials, SICHEM*, 6-7 septembrie 2018 București.
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16. I. Rotaru, **S. Varvara**, L. M. Mureșan, Inhibiting effect of some antibiotics on bronze corrosion, *4th Regional South-East Europe Symposium of Electrochemistry*, 26-30 mai 2013, Ljubljana, Slovenia.
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18. D. Popa, M. Popa, **S. Varvara**, L. Oprea, Study on the elimination of dampness from masonry walls through dry kit system, *International U.A.B. – B.EN.A. Conference "Environmental Engineering and Sustainable Development"*, 26-27 mai 2011 Alba Iulia, Romania.

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Alba Iulia, 18.04.2024

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