

LISTA DE LUCRĂRI

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LISTA DE LUCRĂRI

ARTICOLE / STUDII IN EXTENSO PUBLICATE (R)

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta).

- Ris 1. (ISI).** C. Ott, M.D. Raicopol, C. Andronescu, E. Vasile, A. Hanganu, A. Pruna, Luisa Pilan, *Functionalized polypyrrole/sulfonated graphene nanocomposites: Improved biosensing platforms through aryl diazonium electrochemistry*, *Synthetic Metals* **2018**, 235, 20-18, DOI: 10.1016/j.synthmet.2017.11.006
- Ris 2. (ISI).** O. Ciocirlan, D.A. Berinde, Luisa Pilan, E.-M. Ungureanu, *Cobaltocenium Diffusion Coefficients Evaluation by Electrochemistry in Acetonitrile and Dimethyl Sulfoxide* U.P.B. Sci. Bull. **2017**, Series B, Vol. 79, Iss. 4, 195-208.
- Ris 3. (ISI).** M. Raicopol, C. Andronescu, R. Atasiei, A. Hanganu, E. Vasile, A.M. Brezoiu, Luisa Pilan, *Organic layers via aryl diazonium electrochemistry: towards modifying platinum electrodes for interference free glucose biosensors*, *Electrochimica Acta* **2016**, 206, 226-237, ISSN: 0013-4686, DOI: 10.1016/j.electacta.2016.04.145, CCC: 000376535100026 IF₂₀₁₅: 4.803
- Ris 4. (BDI)** Matei Raicopol, I. Vlăsceanu, I. Lupulescu, A.M. Brezoiu, Luisa Pilan, *Amperometric glucose biosensors based on functionalized electrochemically reduced graphene oxide*, *UPB Sci. Bull.* **2016**, series B, vol. 78, Iss. 2, p. 131-142.
- Ris 5. (ISI).** M. Raicopol, C. Andronescu, R. Atasiei, A. Hanganu, A.M. Manea, I Rău, F. Kajzar, Luisa Pilan, *Synthesis of conducting azopolymers by electrochemical grafting of a diazonium salt at polypyrrole electrodes*, *Synthetic Metals*, **2015**, 206, 84-91, ISSN: 0379-6779, DOI: 10.1016/j.synthmet.2015.05.006, WOS: 000357548600011, IF₂₀₁₅ = 2.299.
- Ris 6. (ISI).** M. Raicopol, C. Andronescu, R. Atasiei, A. Hanganu, Luisa Pilan, *Post-Polymerization Electrochemical Functionalization of a Conducting Polymer: Diazonium Salt Electroreduction at Polypyrrole Electrodes*, *Journal of the Electrochemical Society*, **2014**, 161, G103-G113, ISSN: 0013-4651, DOI: 10.1149/2.0871412jes, WOS: 000357617800014, IF₂₀₁₄: 3.014.
- Ris 7. (ISI).** Istrate, A; Aprodu, I; Banu, I; Vasile, E.; Luisa Pilan; Ionita, M - *Single Molecule Level Investigations on Bone Morphogenetic Proteins Binding to Graphene*, *Digest Journal of Nanomaterials and Biostructures* **2014**, 9 (4), 1399, WOS: 000312709300044, ISSN: 1842-3582, (IF₂₀₁₅: 0.756).
- Ris 8. (BDI)** Luisa Pilan, M. Raicopol, *Highly selective and stable glucose biosensors based on polyaniline/carbon nanotubes composites*, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science* **2014**, 76(1), p. 155-166, ISSN 1454-2331.
- Ris 9. (ISI)** M.Ionita, A.M. Pandele, L. Crica, Luisa Pilan, *Improving the thermal and mechanical properties of polysulfone by incorporation of graphene oxide*, *Composites Part B: Engineering* **2014**, 59,

p. 133-139, DOI: 10.1016/j.compositesb.2013.11.018, WOS:000331019700015, ISSN: 1359-8368, eISSN: 1879-1069 (IF₂₀₁₅: 3.850).

Ris 10. (ISI) M. Raicopol, A. Prună, C. Damian, Luisa Pilan, *Functionalized Single-Walled Carbon Nanotubes/Polypyrrole Composites for Amperometric Glucose Biosensors*, *Nanoscale Research Letters* **2013**, 8:316, DOI: 10.1186/1556-276X-8-316, WOS:000322020500001, ISSN: 1931-7573 (IF₂₀₁₅: 2.584).

Ris 11. (ISI) S.I. Voicu, M.A. Pandele, E. Vasile, R. Rughinis, L. Crica, Luisa Pilan, M. Ioniță, *The impact of sonication time through polysulfone-graphene oxide composite films properties*, *Digest Journal of Nanomaterials and Biostructures* **2013**, 8(4), WOS:000327818000005, ISSN: 1842-3582, (IF₂₀₁₅: 0.756).

Ris 12. (ISI) M. Raicopol, A. Prună, Luisa Pilan, *Supercapacitance of Single-Walled Carbon Nanotubes-Polypyrrole Composites*, *Journal of Chemistry* **2013**, article ID 367473, 7 pages, doi:10.1155/2013/367473, WOS:000323986100001, ISSN: 2090-9063, (IF₂₀₁₅: 0.996).

Ris 13. (ISI) Luisa Pilan, M. Raicopol, A. Pruna, V. Branzoi, *Polyaniline/carbon nanotube composite films electrosynthesis through diazonium salts electroreduction and electrochemical polymerization*, *Surface and Interface Analysis* **2012** 44 (8), p. 1198 – 1202, WOS:000306662600068, ISSN: 0142-2421, (IF₂₀₁₅: 1.018).

Ris 14. (ISI) M. Raicopol, L. Necula, M. Ioniță, L. Pilan, *Electrochemical reduction of aryl diazonium salts: A versatile way for carbon nanotubes functionalisation*, *Surface and Interface Analysis* **2012** 44 (8), p. 1081-1085, DOI: 10.1002/sia.4830, WOS:000306662600046, ISSN: 0142-2421, (IF₂₀₁₅: 1.018).

Ris 15. (ISI) Luisa Pilan, M. Raicopol, M. Ioniță, V. Brânzoi, *Electrochemical Study on Carbon Nanotubes Functionalization by Diazonium Salts Electroreduction*, *Rev. Roum. Chim.* **2012**, 57(9-10), p. 815-822, WOS:000320072300005, ISSN: 0035-3930, (IF₂₀₁₅: 0.25).

Ris 16. (ISI) M. Raicopol, V. Brânzoi, L. Necula, M. Ioniță, Luisa Pilan, *Comparative studies on the redox reaction of $Fe(CN)_6^{4-3-}$ at modified glassy carbon electrodes via diazonium salts electroreduction*, *Rev. Roum. Chim.*, **2012**, 57(9-10), p. 807-814, WOS:000320072300004, ISSN: 0035-3930, (IF₂₀₁₅: 0.25).

Ris 17. (ISI) Luisa Pilan, M. Raicopol, E. Vasile, M. Ionita, *The effect of incorporation of different carbon nanotubes on the properties of polypyrrole nanocomposite - Molecular modeling and experimental investigation*, *Digest Journal of Nanomaterials and Biostructures* **2012** 7 (3), p. 1253-1262, WOS:000312709300044, ISSN: 1842-3582, (IF₂₀₁₅: 0.756).

Ris 18. (ISI) A. Pruna, Luisa Pilan, *Electrochemical study on new polymer composite for zinc corrosion protection*, *Composites Part B: Engineering* **2012**, 43 (8), p. 3251-3257, DOI: 0.1016/j.compositesb.2012.02.041, WOS:000310403600043, ISSN: 1359-8368, (IF₂₀₁₅: 3.850).

Ris 19. (ISI) V. Brânzoi, F. Brânzoi, A. Musina, Luisa Pilan, *Modified electrodes obtained by electrochemical codeposition of some conducting polymers and carbon nanotubes*. *Revue Roumaine de Chimie* **2011**, 56(1), p. 73-84, WOS: 000291517000010, ISSN: 0035-3930, (IF₂₀₁₅: 0.25).

Ris 20. (ISI) V. Brânzoi, F. Brânzoi, M. Raicopol, Luisa Pilan, *Blocking behaviour of covalently attached p-substituted phenyls towards solution-based redox probes*. *Revista De Chimie* **2011**, 62(4), p. 436-442, WOS: 000290835700016, ISSN: 0034-7752, (IF₂₀₁₅: 0.956),.

Ris 21. (ISI) V. Brânzoi, F. Brânzoi, M. Raicopol, Luisa Pilan, N. Donisan, *The characterization of some nanocomposites based on conducting polymers and carbon nanotubes obtained by co-polymerization*. *Revue Roumaine De Chimie* **2010**, 55(5), p. 369-378, WOS:000280213800010, ISSN: 0035-3930, (IF₂₀₁₅: 0.25).

Ris 22. (ISI) V. Brânzoi, F. Brânzoi, Luisa Pilan *Electrochemical fabrication and capacitance of composite films of carbon nanotubes and polyaniline*, *Surface and Interface Analysis* **2010** 42 (6-7), p. 1266-1270, WOS:000281149700179, ISSN: 0142-2421, (IF₂₀₁₅: 1.018).

Ris 23. (ISI) M. Ioniță, V. Brânzoi, Luisa Pilan *Multiscale molecular modeling and experimental validation of polyaniline-CNTs composite coatings for corrosion protecting*, *Surface and Interface Analysis* **2010** 42 (6-7), p. 987-990, WOS:000281149700116, ISSN: 0142-2421, (IF₂₀₁₅: 1.018).

Ris 24. (BDI) Luisa Pilan, E.-M. Ungureanu, Gerard Bidan, *Electrochemical Grafting: A Modern Tool to Achieve New Materials Used for Recognition*, *Nonlinear Optics, Quantum Optics* **2009**, 39(1), p. 41-55, ISSN: 1543-0537.

- Ris 25. (ISI)** V. Branzoi, F. Brânzoi, A. Stanca, Luisa Pilan, *Evaluation of Some Corrosion Inhibitors for Industrial Cooling Waters by Electrochemical Methods*, *Revista de Chimie* **2009**, 60(8), p. 797-804, WOS:000269163700014, ISSN: 0034-7752, (IF₂₀₁₅: 0.956).
- Ris 26. (ISI)** V. Branzoi, F. Branzoi, Luisa Pilan, *Characterization of electrodeposited polymeric and composite modified electrodes on cobalt based alloy*, *Materials Chemistry and Physics* **2009**, 118 (1), p.197-202, WOS:000271556000035, ISSN: 0254-0584, (IF₂₀₁₅: 2.101).
- Ris 27. (ISI)** V. Brânzoi, Luisa Pilan, F. Brânzoi, *Amperometric Glucose Biosensor Based on Electropolymerized Carbon Nanotube/Polypyrrole Composite Film*, *Revue Roumaine de Chimie* **2009**, 54(10), p. 783-790, WOS:000275933000001, ISSN: 0035-3930, (IF₂₀₁₅: 0.25).
- Ris 28. (ISI)** V. Brânzoi, Luisa Pilan, F. Branzoi, *Nanocomposite Films Obtained by Electrochemical Codeposition of Conducting Polymers and Carbon Nanotubes*, *Electroanalysis* **2009**, 21 (3-5), p.557 – 562, WOS:000264063500045, ISSN: 1040-0397, eISSN: 1521-4109, (IF₂₀₁₅: 2.471).
- Ris 29. (ISI)** V. Brânzoi, Luisa Pilan, *Electropolymerization Compounds used for the obtainment of modified electrodes and electrochemical biosensors*, *Molecular Crystal & Liquid Crystals* **2008**, vol.484, p.303-321, WOS:000256185800027, ISSN: 1542-1406, (IF₂₀₁₅: 0.532).
- Ris 30. (ISI)** F. Le Floch, G. Bidan, Luisa Pilan, E.-M. Ungureanu, J.-P. Simonato, *Carbon Substrate Functionalization with Diazonium Salts Toward Sensor Applications*, *Molecular Crystal & Liquid Crystals* **2008**, 486, p. 271–281, WOS:000256186000028, ISSN: 1542-1406, (IF₂₀₁₅: 0.532).
- Ris 31. (ISI)** E.-M. Ungureanu, Luisa Pilan, A. Meghea, F. Le Floch, J.-P. Simonato, G. Bidan, *Preliminary tests for grafting p-nitrophenyl on carbon nanotubes*, *Revista de Chimie* **2008**, 59 (4), p. 400-404, WOS:000256072400009, ISSN: 0034-7752, (IF₂₀₁₅: 0.956).
- Ris 32. (BDI)** V. Brânzoi, Luisa Pilan, A. Gautieri, A. Pruna, M. Ionita, *Innovative methods to advance in new materials design; electrochemical behaviour of polyaniline – polypyrrole composite coatings obtained by electrosynthesis*, *UPB Scientific Bulletin Seria-B* **2007**, ISSN 1454-2331, Vol. 69, Nr 2.
- Ris 33. (ISI)** V. Brânzoi, F. Brânzoi, Luisa Pilan, *Electrochemical characterization of polypyrrole modified electrodes doped with large organic anions*, *Revue Roumaine de Chimie* **2007**, 52, (1-2), p. 169-179, WOS:000247608100020, ISSN: 0035-3930, (IF₂₀₁₅: 0.25).
- Ris 34. (ISI)** E.-M. Ungureanu, Luisa Pilan, A. Meghea, F. Le Floch, J.-P. Simonato, Gérard Bidan, *Preliminary tests for N,N diethylaniline grafting on carbon nanotubes*, *Revista de Chimie* **2007**, 58 (9), p. 866-870, WOS:000250636800002, ISSN: 0034-7752, (IF₂₀₁₅: 0.956).
- Ris 35. (ISI)** V. Brânzoi, F. Branzoi, Luisa Pilan, F. Golgovici, *Electrochemical activity and corrosion protection properties of doped polypyrrole electrodeposited at pure aluminium electrode*, *Molecular Crystal & Liquid Crystals* **2006**, vol.446, p.305-318, WOS:000235345400028, ISSN: 1542-1406, (IF₂₀₁₅: 0.532).
- Ris 36. (ISI)** V. Brânzoi, F. Branzoi, Luisa Pilan, C. Anghel, *The obtained of modified electrodes type doped polypyrrole/pure titanium and their electrochemical characterization*, *Molecular Crystal & Liquid Crystals* **2006**, vol.447, p. 319-340, WOS:000235345600001, ISSN: 1542-1406, (IF₂₀₁₅: 0.532).
- Ris 37. (ISI)** V. Brânzoi, F. Branzoi, Luisa Pilan, C. Anghel, *Effect of ammonium dichromate additions en electrochemical behaviour of lead and its alloys in H₂SO₄ concentrated solutions*, *Revue Roumaine de Chimie* **2006**, 51 (7-8), p.819-826, WOS:000244132900030, ISSN: 0035-3930, (IF₂₀₁₅: 0.25).
- Ris 38. (ISI)** V. Brânzoi, Luisa Pilan, F. Branzoi, C. Anghel, *Polarisation behaviour of pure titanium in different media of chloride*, *Revue Roumaine de Chimie* **2005**, 50 (11-12), p. 1013-1018, WOS:000238236000020, ISSN: 0035-3930, (IF₂₀₁₅: 0.25).
- Ris 39. (ISI)** V. Brânzoi, F. Branzoi, Luisa Pilan, A. Pruna, C. Anghel, *Corrosion kinetics and protection of pure zinc in aqueous NH₄Cl solutions in presence of some organic inhibitors*, *Revue Roumaine de Chimie* **2005**, 50, (11-12), p.1019-1025, WOS:000238236000021, ISSN: 0035-3930, (IF₂₀₁₅: 0.25).
- Ris 40. (BDI)** V. Brânzoi, F. Branzoi, Luisa Pilan, *Amperometric glucose sensors obtained by electrochemical polymerization of p-phenylenediamine on Pussian Blue-PPY/Pt modified electrodes*, *Scientific Bulletin UPB* **2005**, ISSN 1454-2331, vol.67, nr.3, p. 65-74.
- Ris 41. (ISI)** V. Brânzoi, Florina Branzoi, Luisa Pilan, *Electropolymerization Mechanism and Electrochemical Behaviour of Poly (o-Phenylenediamine) film Synthesized in the Presence and Absence of*

some Surfactants, Molecular Crystal & Liquid Crystals **2004**, vol.415, p.475-486, WOS:000224980400006, ISSN: 1058-725X, (IF₂₀₁₅: 0.532).

Ris 42. (ISI) V. Brânzoi, F. Branzoi, Luisa Pilan, M. Ionita, *Electropolymerization Mechanism and Electrochemical Properties of Polypyrrole film Doped with Large Anion*, Molecular Crystal & Liquid Crystals **2004**, vol.415, p.487-497, WOS:000224980400007, ISSN: 1058-725X, (IF₂₀₁₅: 0.532).

Ris 43. (ISI) S. Rondinini, A. Vertova, Luisa Pilan, *The Use of Hexaamineruthenium(III) Redox Marker for the Characterization of SAM-Au Amperometric Sensors*, Electroanalysis **2003**, 15, No. 15-16, p. 1297-1301, WOS:000185589300011, ISSN: 1040-0397, eISSN: 1521-4109, (IF₂₀₁₅: 2.471).

Ris 44. (BDI) V. Brânzoi, D. Mateescu, F. Branzoi, Luisa Pilan, *Electrochemical dissolution and passivation of lead and its alloys in concentrated sulphuric acid solution*, UPB Scientific Bulletin Seria-B **2001**, vol. 63, nr. 3, p. 481-492, ISSN 1454-2331.

Ris 45. (BDI) V. Brânzoi, F. Branzoi, E. Trîmbitasu, Luisa Pilan, *The electrochemical behaviour of lead electrode in H₂SO₄ concentrated solutions with and without CoSO₄ additions*, UPB Scientific Bulletin Seria-B **2001**, 63, nr. 1, pp. 9-21, ISSN 1454-2331.

Ris 46. (BDI) V. Brânzoi, F. Branzoi, Luisa Pilan, E. Trimbításu, *The Polarization of Pure Aluminium in Neutral Solution in Presence and Absence of Different Anions*, UPB Scientific Bulletin Seria-B **1999**, vol.61, nr.3-4, ISSN 1454-2331.

Rns - Reviste de specialitate de circulație națională recunoscute de CNCSIS.

Rns1. V. Brânzoi, F. Branzoi, Luisa Pilan, *Kinetics of Copper Corrosion in Chloride Solutions Inhibited with O-phenylenediamine and Octadecylamine*, Annals of West University of Timișoara **2003**, Series Chemistry 12(1), p. 17-21, cod CNCS 248.

Rno - Alte reviste de specialitate de circulație națională.

Rno 1. V. Brânzoi, F. Golgovici, F. Brânzoi, Luisa Pilan, *Anticorrosive effect of some polymers synthesized in microwave field for industrial systems protection*, Revista de Coroziune si Protectie Anticoroziva, volumul III, nr. 1, p. 26-33, ISSN 1842-0346, **2008**.

Rno 2. V. Brânzoi; A. Prună; F. Brânzoi, Luisa Pilan; *The influence of some surfactants on hydrogen evolution at pure zinc electrode in alkaline and neutral media*, Revista de Coroziune si Protectie Anticoroziva, volumul II, nr. 3, ISSN 1842-0346, **2007**.