

## A. Research articles published in ISI-indexed journals

**Ris31. M.D. Raicopol**, L. Pilan

*"The Role of Aryldiazonium Chemistry in Designing Electrochemical Aptasensors for the Detection of Food Contaminants"*

*Materials (Basel)*, **2021**, 14, 3857

ISSN: 1996-1944

DOI: 10.3390/ma14143857

WOS: 000676428800001

**Ris30. M.D. Raicopol**, A.M. Pandele, C. Dascălu, E. Vasile, A. Hanganu, G.-G. Vasile, I.G. Bugean, C. Pârvu, G. Stanciu, G.-O. Buica

*"Improving the Voltammetric Determination of Hg(II): A Comparison Between Ligand-Modified Glassy Carbon and Electrochemically Reduced Graphene Oxide Electrodes "*

*Sensors (Basel)*, **2020**, 20, 6799

ISSN: 1424-8220

DOI: 10.3390/s20236799

WOS: 000597546100001

**Ris29. M.D. Raicopol**, N.A. Chira, A.M. Pandele, A. Hanganu, A.A. Ivanov, V. Tecuceanu, I.G. Bugean, G.-O. Buica

*"Electrodes modified with clickable thiosemicarbazone ligands for sensitive voltammetric detection of Hg(II) ions"*

*Sensors and Actuators B: Chemical*, **2020**, 313, 128030

ISSN: 0925-4005

DOI: 10.1016/j.snb.2020.128030

WOS: 000526287200011

**Ris28. E. Vasile**, A.M. Pandele, C. Andronescu, A. Selaru, S. Dinescu, M. Costache, A. Hanganu, **M.D. Raicopol**<sup>®</sup>, M. Teodorescu

*"Hema-Functionalized Graphene Oxide: a Versatile Nanofiller for Poly(Propylene Fumarate)-Based Hybrid Materials"*

*Scientific Reports*, **2019**, 9, 18685

ISSN: 2045-2322

DOI: 10.1038/s41598-019-55081-2

WOS: 000501894800001

**Ris27. M. Raicopol**, C. Andronescu, Ș.I. Voicu, E. Vasile, A.M. Pandele

*"Cellulose acetate/layered double hydroxide adsorptive membranes for efficient removal of pharmaceutical environmental contaminants"*

*Carbohydrate Polymers*, **2019**, 214, 204-212

ISSN: 0144-8617

DOI: 10.1016/j.carbpol.2019.03.042

WOS: 000462586900024

**Ris26. M. Raicopol**, C. Dascălu, C. Devan, A.-L. Alexe-Ionescu, G. Barbero

*"A simple model of ac hopping surface conductivity in ionic liquids"*

*Electrochemistry Communications*, **2019**, 100, 16-19

ISSN: 1388-2481

DOI: 10.1016/j.elecom.2019.01.010

WOS: 000463344400004

**Ris25. R. Atasiei**, **M. Raicopol**, C. Andronescu, A. Hanganu, A.-L. Alexe-Ionescu, G. Barbero

*"Investigation of the conduction properties of ionic liquid crystal electrolyte used in dye sensitized solar cells"*

*Journal of Molecular Liquids*, **2018**, 267, 81-88

ISSN: 0167-7322

DOI: 10.1016/j.molliq.2018.01.010

WOS: 000447575800012

**Ris24.** C. Ott, **M. Raicopol**<sup>®</sup>, C. Andronescu, E. Vasile, A. Hanganu, A. Prună, L. Pilan

*"Functionalized polypyrrole/sulfonated graphene nanocomposites: Improved biosensing platforms through aryl diazonium electrochemistry"*

*Synthetic Metals*, **2018**, 235, 20-28

ISSN: 0379-6779

DOI: 10.1016/j.synthmet.2017.11.006

WOS: 000424176500003

**Ris23.** **M. Raicopol**<sup>®</sup>, C. Andronescu, R. Atasiei, A. Hanganu, E. Vasile, A.M. Brezoiu, L. 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

**Ris22.** **M. Raicopol**, B. Bălănuță, K. Sliozberg, B. Schlüter, S.A. Gârea, N. Chira, W. Schuhmann, C. Andronescu

*"Vegetable oil-based polybenzoxazine derivatives coatings on Zn–Mg–Al alloy coated steel"*

*Corrosion Science*, **2015**, 100, 386-395

ISSN: 0010-938X

DOI: 10.1016/j.corsci.2015.08.018

WOS: 000363070100036

**Ris21.** B. Bălănuță, **M. Raicopol**, A. Maljusch, S. Gârea, A. Hanganu, W. Schuhmann, C. Andronescu

*"Phenolated Oleic Acid Based Polybenzoxazine Derivatives as Corrosion Protection Layers"*

*ChemPlusChem*, **2015**, 80, 1170-1177

ISSN: 2192-6506

DOI: 10.1002/cplu.201500092

WOS: 000357617800014

**Ris20.** **M. Raicopol**, C. Andronescu, R. Atasiei, A. Hanganu, A.M. Manea, I Rău, F. Kajzar, L. 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

**Ris19.** **M. Raicopol**, C. Andronescu, R. Atasiei, A. Hanganu, L. 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

- Ris18. M. Raicopol**, A. Prună, C. Damian, L. Pilan  
*"Functionalized single-walled carbon nanotubes/polypyrrole composites for amperometric glucose biosensors"*  
*Nanoscale Research Letters*, **2013**, 8, 316  
ISSN: 1931-7573  
DOI: 10.1186/1556-276X-8-316  
WOS: 000322020500001
- Ris17. M. Raicopol**, A. Prună, L. Pilan  
*"Supercapacitance of single-walled carbon nanotubes-polypyrrole composites"*  
*Journal of Chemistry*, **2013**, 367473  
ISSN: 2090-9063  
DOI: 10.1155/2013/367473  
WOS: 000323986100001
- Ris16. M. Raicopol**, E. Vasile, C. Dascălu, R. Atasiei  
*"Role of moderate sintering temperature on reducing tin diffusion at TiO<sub>2</sub>/TCO interface"*  
*Digest Journal of Nanomaterials and Biostructures*, **2013**, 8, 1719-1725  
ISSN: 1842-3582  
DOI: -  
WOS: 000327818000036
- Ris15. R. Atasiei, C. Dascălu, M. Raicopol**  
*"The time dependence of the electric charge in a nematic cell aligned with doped polypyrrole"*  
*UPB Scientific Bulletin, Series A*, **2013**, 75, 293-298  
ISSN: 1223-7027  
DOI: -  
WOS: 000328301900026
- Ris14. L. Pilan; M. Raicopol; E. Vasile; M. Ioniță**  
*"The effect of incorporation of different carbon nanotubes on the properties of polypyrrole nanocomposite - molecular modeling and experimental investigations"*  
*Digest Journal of Nanomaterials and Biostructures*, **2012**, 7, 1253-1262  
ISSN: 1842-3582  
DOI: -  
WOS: 000312709300044
- Ris13. E.A. Dragu; S. Nică, M. Raicopol, A. Baran, D.-F. Anghel, B. Cojocaru, L. Tarko, A.C. Răzuș**  
*"Synthesis, solid-state photophysical properties and electropolymerization of novel diazulenyl ethenes"*  
*Tetrahedron Letters*, **2012**, 53, 2611-2614  
ISSN: 0040-4039  
DOI: 10.1016/j.tetlet.2012.03.044  
WOS: 000303429600008
- Ris12. 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, 1081-1085  
ISSN: 0142-2421  
DOI: 10.1002/sia.4830  
WOS: 000306662600046
- Ris11. L. Pilan, M. Raicopol, A. Prună, V. Brânzoi**

*"Polyaniline/carbon nanotube composite films electrosynthesis through diazonium salts electroreduction and electrochemical polymerization"*  
*Surface and Interface Analysis*, **2012**, *44*, 1198-1202  
ISSN: 0142-2421  
DOI: 10.1002/sia.4920  
WOS: 000306662600068

**Ris10.** L. Pilan, **M. Raicopol**, M. Ioniță, V. Brânzoi  
*"Electrochemical study on carbon nanotubes functionalization by diazonium salts electroreduction"*  
*Revue Roumaine de Chimie*, **2012**, *57*, 815-822  
ISSN: 0035-3930  
DOI: -  
WOS: 000320072300005

**Ris9.** **M. Raicopol**, V. Brânzoi, L. Necula, M. Ioniță, L. Pilan  
*"Comparative studies on the redox reaction of  $Fe(CN)_6^{4-/3-}$  at modified glassy carbon electrodes via diazonium salts electroreduction"*  
*Revue Roumaine de Chimie*, **2012**, *57*, 807-814  
ISSN: 0035-3930  
DOI: -  
WOS: 000320072300004

**Ris8.** **M. Raicopol**, C. Dascălu, R. Atasiei, A.T. Ionescu  
*"Role of dopants on the electro-optic effect in nematic liquid crystals aligned with doped polypyrrole"*  
*Journal of Applied Physics*, **2011**, *109*, 124905  
ISSN: 0021-8979  
DOI: 10.1063/1.3597824  
WOS: 000292331200150

**Ris7.** A. C. Răzuș, S. Nică, L. Cristian, **M. Raicopol**, L. Bârzan, A.E. Dragu  
*"Synthesis and physico-chemical properties of highly conjugated azo-aromatic systems. 4-(azulen-1-yl)-pyridines with mono- and bis azo-aromatic moieties at C3-position of azulene"*  
*Dyes and Pigments*, **2011**, *91*, 55-61  
ISSN: 0143-7208  
DOI: 10.1016/j.dyepig.2011.02.008  
WOS: 000291079200009

**Ris6.** M. Suceveanu, **M. Raicopol**, R. Enache, A. Fânaru, S.I. Roșca  
*"Selective Reductions of the Carbonyl Compounds and Aryl Halides with Ni-Al Alloy in Aqueous Alkali Medium"*  
*Letters in Organic Chemistry*, **2011**, *8*, 690-695  
ISSN: 1570-1786  
DOI: 10.2174/157017811799304115  
WOS: 000299572800002

**Ris5.** V. Brânzoi, F. Brânzoi, **M. Raicopol**, L. Pilan  
*"Blocking behaviour of covalently attached p-substituted phenyls towards solution-based redox probes"*  
*Revista de Chimie (Bucharest)*, **2011**, *62*, 436-442  
ISSN: 0034-7752  
DOI: -  
WOS: 000290835700016

**Ris4.** S.I. Roșca, C. Ott, R. Stan, **M. Raicopol**, M. Chiper

*"Renewable Chiral Auxiliary for Enantioselective Synthesis of  $\alpha$ -aminoacids"*

*Revista de Chimie (Bucharest)*, **2010**, 61, 750-754

ISSN: 0034-7752

DOI: -

WOS: 000282497600009

**Ris3.** C. Dascălu, R. Atasiei, **M. Raicopol**

*"Evaluation of the Debye length for a nematic liquid crystal aligned with conductive polymers"*

*UPB Scientific Bulletin, Series A*, **2009**, 71, 89-94

ISSN: 1223-7027

DOI: -

WOS: 000272392500011

**Ris2.** N. Eşeanu, C. Dascălu, R. Atasiei, **M. Raicopol**

*"Current-voltage characteristics of a nematic cell oriented by a doped polypyrrole surface layer"*

*Physics Letters A*, **2008**, 372, 2459-2463

ISSN: 0375-9601

DOI: 10.1016/j.physleta.2007.11.038

WOS: 000254946000022

**Ris1.** R. Atasiei, C. Dascălu, N. Eşeanu, **M. Raicopol**, A.-L. Alexe-Ionescu

*"Ionic contributions to nematic liquid crystal-conducting polymer interface phenomena"*

*UPB Scientific Bulletin, Series A*, **2008**, 70, 83-88

ISSN: 1223-7027

DOI: -

WOS: 000262993700012

## **B. Research articles published in BDI-indexed journals (CNCSIS categ. B+):**

**Rns4.** *"Amperometric glucose biosensors based on functionalized electrochemically reduced graphene oxide"*

**M. Raicopol**; I. Vlăsceanu; I. Lupulescu; A.M. Brezoiu; L. Pilan

*UPB Scientific Bulletin, Series B*, **2016**, 78, 131

ISSN: 1454-2331

**Rns3.** *"Phenolated methyloleate-based poly(benzoxazine) films as corrosion protection layers on Zn/Mg/Al-alloy coated steel"*

C. Andronescu; B. Bălănuță; **M. Raicopol**;

*UPB Scientific Bulletin, Series B*, **2016**, 78, 13

ISSN: 1454-2331

**Rns2.** *"Highly selective and stable glucose biosensors based on polyaniline/carbon nanotubes composites"*

L. Pilan; **M. Raicopol**

*UPB Scientific Bulletin, Series B*, **2014**, 76, 155

ISSN: 1454-2331

**Rns1.** *"Solid phase supported chiral tricarbonyl-chromium complexes"*

**M. Raicopol**; R. Lehăduş; C. Ott; R. Stan; S. Roşca

*UPB Scientific Bulletin, Series B*, **2010**, 72, 11

ISSN: 1454-2331

