Dimitrie-Matei-Damian RAICOPOL

Lista de lucrări

Articole publicate în reviste indexate în Web of Science, cu factor de impact

1. Onaş, A.M.; Pandele, A.M.; Hanganu, A.; Florea, C.V.; Iovu, H.; **Raicopol, M.**@; Pilan, L.
"Facile preparation of bifunctional monolayers through diazonium grafting and "click" postfunctionalization: A first step towards efficient aptasensing interfaces"
Bioelectrochemistry, **2025**, *163*, 108904
ISSN: 1567-5394; DOI: 10.1016/j.bioelechem.2025.108904; WOS: 001399643000001

2. **Raicopol, M.**; Hanganu, A.; Samoila, I.; Dinescu,S.; Costache, M.; Balas, M.; Chirita, C.; Seremet, O.C.; Olaru, O.T.; Nicolescu, F.; Nicolescu, T.O.; Garea, S.A.; Ghebaur, A.
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3. Florea, C.V.; Buică, G.O.; Pandele, M.A.; Onaş, A.M.; Voicu, M.-E.; Hanganu, A.; Tecuceanu, V.; Vasile, G.-G.; Devan, C.; Stan, R.; **Raicopol, M.**@
"Dual-function sensing platform for Hg(II) based on a redox-active thiosemicarbazone receptor"
Journal of Electroanalytical Chemistry, **2024**, *961*, 118251
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4. Onaş, A.M.; Pandele, A.M.; Hanganu, A.; Florea, C.V.; Marton, G.; Iovu, H.; **Raicopol, M.**@; Pilan, L.
"Controlled surface functionalization using aryldiazonium salts with bulky protecting groups for the development of DNA-based sensing platforms"
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5. Onaş, A.M.; Olăreţ, E.; Pandele, A.M.; **Raicopol, M.D.**; Pilan, L.; Iovu, H.
"A comparative study on the preparation of glassy carbon electrodes modified with electrochemically reduced graphene oxide"
UPB Scientific Bulletin, Series B, **2024**, *86*, 95
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6. Pandele, A.M.; Şelaru, A.; Dinescu, S.; Costache, M.; Vasile, E.; Dascălu, C.; **Raicopol, M.**@; Teodorescu, M.
"Synthesis and evaluation of poly(propylene fumarate)-grafted graphene oxide as nanofillerfor porous scaffolds"
Journal of Materials Chemistry B, **2023**, *11*, 8241
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7. Onaş, A.M.; Dascălu, C.; **Raicopol, M.**@; Pilan, L.
"Critical Design Factors for Electrochemical Aptasensors Based on Target-Induced Conformational Changes: The Case of Small-Molecule Targets"
Biosensors (Basel), **2022**, *12*, 816
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8. **Raicopol, M.**; L. Pilan, L.
"The Role of Aryldiazonium Chemistry in Designing Electrochemical Aptasensors for the Detection of Food Contaminants"
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9. **M. 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
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10. **M. 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"
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11. E. Vasile, A.M. Pandele, C. Andronescu, A. Selaru, S. Dinescu, M. Costache, A. Hanganu, **M. Raicopol@**, M. Teodorescu
"Hema-Functionalized Graphene Oxide: a Versatile Nanofiller for Poly(Propylene Fumarate)-Based Hybrid Materials"
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12. **M. Raicopol**, C. Andronescu, Ş.I. Voicu, E. Vasile, A.M. Pandele
"Cellulose acetate/layered double hydroxide adsorptive membranes for efficient removal of pharmaceutical environmental contaminants"
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13. **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
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14. 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"
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15. C. Ott, **M. Raicopol@**, C. Andronescu, E. Vasile, A. Hanganu, A. Prună, L. Pilan
"Functionalized polypyrrole/sulfonated graphene nanocomposites: Improved biosensing platforms through aryl diazonium electrochemistry"
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16. **M. Raicopol@**, 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"
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17. C. Andronescu; B. Bălănucă; **M. Raicopol**;
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18. **M. Raicopol**; I. Vlăsceanu; I. Lupulescu; A.M. Brezoiu; L. Pilan
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20. B. Bălănucă, **M. Raicopol**, A. Maljusch, S. Gârea, A. Hanganu, W. Schuhmann, C. Andronescu
"Phenolated Oleic Acid Based Polybenzoxazine Derivatives as Corrosion Protection Layers"
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21. **M. Raicopol**, C. Andronescu, R. Atasiei, A. Hanganu, A.M. Manea, I Rău, F. Kajzar, L. Pilan
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"Highly selective and stable glucose biosensors based on polyaniline/carbon nanotubes composites"
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35. A. C. Răzuş, 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"
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"Ionic contributions to nematic liquid crystal-conducting polymer interface phenomena"
UPB Scientific Bulletin, Series A, **2008**, *70*, 83-88
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Capitole de carte

1. Onaş, A.M.; Florea, C.V.; **Raicopol, M.**; Pandele, A.M.
„Carbon nanotube fibres and yarns – synthesis, structure, and applications”
în Mondal, I.H. (Ed.), *Technical Organic and Inorganic Fibres from Natural Resources*, Elsevier, Cambridge, **2025**, p. 379-402; ISBN: 978-0-443-15459-1; eISBN: 978-0-443-15460-7*;* DOI: 10.1016/B978-0-443-15459-1.00007-3

2. Pilan, L; **Raicopol, M.**
„Electrochemical DNA Biosensors Based on Carbon Nanomaterials”
în Kaneko, S.; Aono, M; Pruna, A.; Can, M.; Mele, P.; Ertugrul, M.; Endo, T. (Eds.), *Carbon Related Materials*, Springer, Singapore, **2021**, p. 209-247; ISBN: 978-981-15-7609-6; eISBN: 978-981-15-7610-2; DOI: 10.1007/978-981-15-7610-2_10

Brevete de invenţie şi cereri de brevet de invenţie

1. Pilan, L.; **Raicopol, M.**; Onaş, A.M.; Pandele, A.M.; Florea, C.V.
„Procedeu electrochimic pentru obţinerea de suprafeţe bifuncţionale cu grad de funcţionalizare controlat şi impedanţă scăzută cu aplicaţii în obţinerea de biosenzori”
Cerere de brevet de invenţie nr. 138599 A2, publicată în 30.01.2025

Comunicări orale prezentate la conferinţe internaţionale

1. Florea, C.-V.; Buică, G.-O.; Pandele, A.-M.; Voicu, M.-E.; Creţu, R.; Pilan, L.; **Raicopol, M.**
   „Dual-Function Sensing Platform for Hg^{2+} Based on a Redox-Active Thiosemicarbazone Receptor"
   244th ECS Meeting, octombrie **2023**, Gothenburg, Suedia
2. Florea, C.-V.; Onaş, A.-M.; Buică, G.-O.; Pandele, A.-M.; Voicu, M.-E.; **Raicopol, M.;**
   „Synthesis, characterization and sensing performance of a "clickable" ferrocene-based redox-active thiosemicarbazone receptor"
   22nd Romanian International Conference on Chemistry and Chemical Engineering, RICCCE 22, septembrie **2022**, Sinaia, România
3. **M. Raicopol**, C. Devan, M. Pandele, C. Dascălu, A.L. Alexe-Ionescu
   „Dye sensitized solar cells based on ionic liquid crystal electrolytes"
   21st Romanian International Conference on Chemistry and Chemical Engineering, RICCCE XXI, septembrie **2019**, Mamaia, România
4. **M. Raicopol**, R. Atasiei, L. Pilan, C. Andronescu, A. Hanganu
   „Columnar ionic liquid crystals - improved electrolytes for dye-sensitized solar cells (DSSCs)"
   20th Romanian International Conference on Chemistry and Chemical Engineering, RICCCE XX, septembrie **2017**, Poiana Braşov, România

Prelegeri invitate

1. **Raicopol, M.**; Florea, C.-V.; Buică, G.-O.; Pandele, A.-M.; Onaş, A.-M.; Hanganu, A.; Voicu, M.-E.;
   „Sinteza, caracterizarea şi aplicaţiile analitice ale unui metalo-ligand redox-activ din clasa tiosemicarbazonelor"
   prezentată la *Simpozionul 120 de ani de la nasterea Academicianului Costin D. Nenitescu*, septembrie **2022**, Aula Academiei Române, Bucureşti, România, organizat de Secţia de Ştiinţe Chimie a Academiei Române şi Institutul de Chimie Organică şi Supramoleculară „C.D. Neniţescu" al Academiei Române
2. **M. Raicopol**
   "Electrochemical functionalization using aryl diazonium salts - selected applications in biosensing"
   prezentată la Center for Electrochemical Sciences, Ruhr Universität Bochum, iulie **2015**, Bochum, Germania

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