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## L I S T A

### lucrărilor științifice în domeniul disciplinelor din postul didactic din ultimii 10 ani

#### A. Teza de doctorat

SISTEME DINAMICE PE BAZA DE LIGANZI POLIDENTATI. AMPLIFICARE CONSTITUTIONALA IN BIBLIOTECI COMBINATORIALE DINAMICE DE BIS(IMINO)PIRIDINE - **Universitatea Politehnica din Bucuresti/** SYSTEMES DYNAMIQUES A BASE DE LIGANDS POLYDENTES. AMPLIFICATION CONSTITUTIONNELLE DANS UNE BIBLIOTHEQUE COMBINATOIRE DYNAMIQUE DE BIS(IMINO)PYRIDINES - **Université de Montpellier II Sciences et Techniques du Languedoc (Montpellier, France)**-Ordin MEdC nr. 3439/12.03.2008.

#### B. Cărți și capitole în cărți publicate în ultimii 10 ani

**F. Dumitru**, *Materiale hibride mezoporoase*, cap. 4, pag. 144-203, in *Nanomateriale membranare*, ed. G. Nechifor, Ed. Printech, **2011**, ISBN 978-606-521-624-2.

#### C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

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2. **Dumitru F**, van der Lee A, Barboiu M. Chiral superstructures from homochiral Zn<sup>2+</sup>, Co<sup>2+</sup>, Fe<sup>2+</sup>-2,6-bis (arylethyl-imine)pyridine complexes. *Chirality*. 31(10), 763-775, **2019**, DOI: 10.1002/chir.23115, WOS:000489266000001
3. Anca RAZVAN, Daniela F. POPA, Ovidiu OPREA, Eugeniu VASILE, **Florina DUMITRU**, Gheorghe NECHIFOR, Ultrafiltration mixed matrix membranes based on mesoporous silica (MCM-41, HMS) embedded in polysulfone, *REV.CHIM.(Bucharest)*, 70(9), **2019**, 3089-3093. WOS:000489958900001
4. Totu, E.E., Cristache, C.M., Buga, R., **Dumitru, F.**, Totu, T., A card double face: Compounds' functionality and synergy of a topical treatment proposed for oral health improvement in periodontal disease, *Revista de Chimie*, Volume 70, Issue 5, **2019**, Pages 1551-1557 WOS:000470086400008

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6. D. F. Enache, G. A. Popa, E. Vasile, A. Razvan, O. Oprea, E. Voicila, **F. Dumitru**, *Preparation and Characterization of Ultrafiltration TiO<sub>2</sub> Nanoparticles-Polysulfone Membranes*, REV.CHIM. (Bucharest), 68(11), **2017**, 2635-2640 (FI = **1.232**). WOS:000416751800035
7. D. F. Enache, E. Vasile, C. M. Simonescu, A. Razvan, A. Nicolescu, A-C. Nechifor, O. Oprea, R.-E. Patescu, C. Onose, **F. Dumitru**, *Cysteine-functionalized silica-coated magnetite nanoparticles as potential nanoadsorbents*, J. Solid State Chem. 253C, **2017**, 318-328 (FI = **2.299**). WOS:000406572600044
8. S. Schneider, E.-D. Licsandru, I. Kocsis, A. Gilles, **F. Dumitru**, E. Moulin, J. Tan, J.-M. Lehn, N. Giuseppone, M. Barboiu, *Columnar Self-Assemblies of Triarylaminines as Scaffolds for Artificial Biomimetic Channels for Ion and for Water Transport*, J. Am. Chem. Soc., **2017**, 139(10), 3721-3727, (FI= **13.038**). ISSN: 0002-7863;1520-5126, WOS:000396801300025
9. Serb, M.D., Vasile, E., Razvan, A., **Dumitru, F.**, Andronesu, C., Oprea, O., Vasile, O. R., Holban, A. M., Andronesu, E., *Fe<sub>3</sub>O<sub>4</sub> nanoparticles coated with Zn(II)-carboxylato complexes*, Dig. J. Nanomater. Bios. 11(2), **2016**, 495-505. (FI= **0.756**). ISSN: 1842-3582, WOS:000378158700020
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16. M.-D. Serb, B. Braun, O. Oprea, **F. Dumitru**, *Synthesis, Crystal Structure, and Thermal Decomposition Study of the New [Tetraqua-Bis-(Monohydrogen Squarate)]Zinc(II) Complex*, *Dig. J. Nanomater. Bios.*, 8(2), 797-804, **2013**, (FI= **0.945**). ISSN: 1842-3582, WOS:000322737500033
17. **F. Dumitru**, Y.-M. Legrand, M. Barboiu, A. van der Lee, *Weak intermolecular hydrogen and halogen interactions in an isomorphous halogen series of pseudoterpyridine Zn<sup>II</sup> complexes*, *Acta Cryst. B* 69, 43-54, **2013**, doi: 10.1107/S0108768112050434 (FI= **2.184**). ISSN: 0108-7681, WOS:000313970300005
18. E. Vasile, **F. Dumitru**, A. Razvan, O. Oprea, C. Andronescu *Novel Ureido-4'-Aminobenzo-15-Crown-5-Ether Periodic Mesoporous Silicas*, *Dig. J. Nanomater. Bios.*, 8(1), 433-444, **2013**, (FI= **0.945**). ISSN: 1842-3582, WOS:000316441200046
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21. M.-D. Serb, Y. Wang, **F. Dumitru**, U. Englert, *Triaquabis[4-(methoxycarbonyl)benzoato-κ<sup>O</sup>]zinc dihydrate*, *Acta Cryst. E* 67, m475 (8pg), **2011**, doi: 10.1107/S1600536811010269, ISSN: 1600-5368; eISSN: 2056-9890, WOS:000289208800068
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23. D. Manzu, **F. Dumitru**, A. Ficai, A. Razvan, A. Guran, *Organocyclophosphazenes/silica hybrid materials I. Synthesis and characterization of siloxane monomers and of cyclophosphazene/SiO<sub>2</sub> composites*, *Mat. Plast.* 47(3), 292-298, **2010** (FI=**0.824**). ISSN: 0025-5289, WOS:000283484600007
24. A. Sanislav, **F. Dumitru**, M.D. Stanescu, *Investigation of two textile anthraquinone dyes purity*, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 2013, 75(4), 91-100. (ISSN 1454-2331)
25. S. Gavrilas, **F. Dumitru**, M.D. Stanescu, *Commercial Laccase oxidation of phenolic compounds*, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 2012, 74(4), 3-10. (ISSN 1454-2331)
26. T. Negreanu-Pîrjol, B. Negreanu-Pîrjol, M. Călinescu, **F. Dumitru**, R. Sîrbu, R. Stoicescu, G.

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27. T. Negreanu-Pirjol, M. Calinescu, B. Negreanu-Pirjol, **F. Dumitru**, R. Sirbu, G. Liliș, E. Gorun, C. Guran, Synthesis, characterization and microbiological activity of some new Zn(II) and Ag(I) complex compounds with hetero-aromatic biguanide derivatives, Archives of the Balkan Medical Union, 2011, 46(2), 142-146. (ISSN 1584-9244)

**D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți  
(neindexate)**

- Selecție cu maximum 20 lucrări în volume de conferințe

**E. Brevete obținute în întreaga activitate**

1. T. Negreanu-Pirjol, B. S. Negreanu-Pirjol, C. Guran, M. Calinescu, A. Oancea, E. Gorun, F. N. Roncea, **F. Dumitru**, A. Meghea, N. Badea, G. Taralunga, L. Moldovan, - PHARMACEUTICAL BIOADHESIVE DISK-TYPE PREPARATIONS BASED ON CHLORHEXIDINE METAL COMPLEXES AND PROCESS FOR PREPARING THE SAME, RO127727-B1, **2013**, Derwent Primary Accession Number: 2012-P88057
2. T. Negreanu-Pirjol, B. S. Negreanu-Pirjol, C. Guran, M. Calinescu, A. Oancea, E. Gorun, **F. Dumitru**, A. Meghea, N. Badea, M. M. Bratu, L. A. Bucur, L. Moldovan, V. Coroiu, O. Calinescu, M. R. Stoicescu, F. B. Nitu, METAL CHLORHEXIDINE COMPLEXES with disinfecting effect AND PROCESS FOR PREPARING THE same, RO127465-B1, **2013**, Derwent Primary Accession Number: 2012-H46158
3. T. Negreanu-Pirjol, B. S. Negreanu-Pirjol, C. Guran, M. Calinescu, A. Oancea, E. Gorun, F. N. Roncea, **F. Dumitru**, A. Meghea, N. Badea, G. Taralunga, L. Moldovan, PHARMACEUTICAL BIOADHESIVE GEL-TYPE PREPARATIONS BASED ON CHLORHEXIDINE METAL COMPLEXES AND PROCESS FOR PREPARING THE SAME, RO127726-B1, **2013**, Derwent Primary Accession Number: 2012-P88070
4. T. Negreanu-Pirjol, B. S. Negreanu-Pirjol, C. Guran, M. Calinescu, A. Oancea, E. Gorun, F. N. Roncea, **F. Dumitru**, A. Meghea, N. Badea, G. Taralunga, C. Amariei, L. Moldovan, PHARMACEUTICAL MOUTHWASH-TYPE PREPARATIONS BASED ON CHLORHEXIDINE METAL COMPLEXES AND PROCESS FOR PREPARING THE SAME, RO127722-B1, **2013**, Derwent Primary Accession Number: 2012-P88119
5. T. Negreanu-Pirjol, B. S. Negreanu-Pirjol, C. Guran, M. Calinescu, A. Oancea, E. Gorun, F. N. Roncea, **F. Dumitru**, A. Meghea, N. Badea, G. Taralunga, R. Sirbu, L. Moldovan, PHARMACEUTICAL CREAM-TYPE PREPARATIONS BASED ON METAL COMPLEXES OF CHLORHEXIDINE AND PROCESS FOR PREPARING THE SAME, RO127721-B1, **2013**, Derwent Primary Accession Number: 2012-P88132

**Data:**

**Semnătura:**