

Lista de lucrări

Articole ISI in strainatate

1. Diana Tanasa, Narcisa Vrinceanu, Alexandra Nistor, Claudia Mihaela Hristodor, Eveline Popovici, Ionut Lucian, Bistricianu3, Florin Brinza, Daniela-Lucia Ionut, Diana Coman, **Aurel Pui**, Ana Maria Grigoriu and Gianina Broasca, Zinc oxide-linen fibrous composites: Morphological, structural, chemical and humidity adsorptive attributes, *Textile Research Journal*, 82(8), 832-844 (2012), DOI: 10.1177/0040517511435068.
2. Narcisa Vrinceanu, Diana Tanasa, Claudia Mihaela Hristodor, Florin Brinza, Eveline Popovici, Daniel Gherca, **Aurel Pui**, Diana Coman, Andreea Carsmariu, Ionut Bistricianu, Gianina Broasca, Synthesis and characterization of zinc oxide nanoparticles, Application to textiles as thermal barriers, *J. Therm. Anal. Calorim.*, DOI 10.1007/s10973-012-2269-7.
3. **Aurel Pui**, Theodor Malutan, Lucia Tataru, Corina Malutan, Doina Humelnicu, Gabriela Carja, New complexes of lanthanide Ln(III), (Ln = La, Sm, Gd, Er) with Schiff bases derived from 2-furaldehyde and phenylenediamines, *Polyhedron* 30 (2011) 2127–2131.
4. Robert Gradinaru, Alin Ionas, **Aurel Pui**, Gheorghita Zbancioc, Gabi Drochioiu, Interaction of inorganic mercury with CoA-SH and acyl-CoAs, *Biometals*, DOI 10.1007/s10534-011-9472-z., *Biometals* (2011) 24:1115–1121
5. C. Tanase, Lucia Odochian, Nicu Apostolescu, **A. Pui**, TG-FTIR analysis applied to the study of thermal behaviour of some edible mushrooms, *J. Therm. Anal. Calorim* (2011) 103: 1079-1085.
6. Tanase C, **Pui A**, Oprea A, Popa K, Translocation of radioactivity from substrate to macromycetes in the Crucea (Romania) uranium mining area, *J. Radioanalytical and Nuclear Chemistry*, 281:3 (2009), 563-567.
7. Nicoleta Melniciuc Puica, **Aurel Pui**, Danut Cozma, Elena Ardelean, A statistical study on the thermal degradation of some paper supports (old documents), *Materials Chemistry and Physics, Phys.* 113 (2009) 544-550.
8. Th. Malutan, **A. Pui**, C. Malutan, L. Tataru, D. Humelnicu, A Fluorescence Emission, FT-IR and UV-VIS Absorption Study of the Some Uranium (VI) Schiff Bases Complexes, *Journal of Fluorescence*, (2008) 18:707-713.
9. **Aurel Pui**, Jean-Pierre Mahy, Synthesis, characterization and catalytic activity of halo-methyl- bis(salicylaldehyde) ethylenediamine cobalt(II) complexes, *Polyhedron*, 26, 2007, 3143-3152.
10. **Aurel Pui**, Manganese (II) complexes with bis(3-halo-2-hydroxy-5-methylacetophenone) ethylenediamine; structure, characterization and redox behavior, *J. Coord. Chem.*, 60/7, 2007, 709-718.
11. **Aurel Pui**, Clotilde Policar, Jean-Pierre Mahy, Electronic and steric effects in cobalt Schiff bases complexes. Synthesis, characterization and catalytic activity of some cobalt(II) tetra-halogen-dimethyl salen complexes, *Inorg. Chim. Acta*, 360, 2007, 2139-2144.
12. **Aurel PUI**, Cristian DOBROTA, Jean-Pierre MAHY ,Electrochemical, Spectroscopic Characterization and Catalytic Activity of Cobalt (II) Complexes of tetra-chloro-R-Salen ([tClSalen = bis(3,5-di-chloro- α -R salicylidene) ethylenediamine]) and tetra-chloro-R-Salophen ([tClSalophen = bis(3,5-di-chloro- α -R salicylidene)-1,2-phenylenediamine]), R = H, CH₃, CH₂-CH₃, *J. Coord. Chem.*, 60/5, 2007, 581-595.

13. Lucia Odochian, Viorica Dulman, Mihai Dumitrascu, **Aurel Pui**, Study by thermal methods on the materials obtained by dye removal from waste waters with beech flour, *Journal of Thermal Analysis and Calorimetry*, 89 (2), 2007, 625-631.
14. O. Pintilie, L. Profire, V. Sunel, M. Popa, **A. Pui**, Synthesis and Antimicrobial activity of Some New 1,3,4-Thiadiazole and 1,2,4-triazole Compounds Having a D,L,-Methionine Moiety, *Molecules*, 12, 2007, 103-113.
15. **Aurel Pui**, Mechanism of oxidation of 2,6-di-tert-butyl-phenol with Molecular Oxygen, in Presence of some New Bis(di-halogeno α -Methyl Salen) Copper(II) complexes, *Synth. React. Inorg. Metal-Organic and Nano-Metal Chemistry*, 36, 2006, 1-5.
16. Daniela Dirtu, Lucia Odochian, **Aurel Pui**, Ionel Humelnicu, Thermal decomposition of ammonia. N_2H_4 – an intermediary reaction product, *Central European Journal of chemistry*, 4(4), 2006, 666–673.
17. K. Popa, Al. Cecal, G. Drochioiu, **A. Pui**, D. Humelnicu, *Saccharomyces cerevisiae* as uranium bioaccumulating material: The influence of contact time, pH and anion nature, *Nukleonika*, 48(3), 2003, 121-125,.
18. C.C. Pavel, K. Popa, N. Balba, A. Cecal, D. Cozma, **A. Pui**, The sorption of some radiocations on microporous titanosilicate ETS-10, *J. of Radioanalytical and Nuclear Chemistry*, 258 (2), 2003, 243-248.
19. **Aurel Pui**, Binding of Molecular Dioxygen to the Co(II) Complexes in Nonaqueous Solution, *Croatica Chimica Acta.*, **75** (1), 2002,165-173.
20. **Aurel Pui**, Ioan Berdan, Martine Perrée-Fauvete, Irène Morgenstern-Badarau, Electrochemical and Spectroscopic Characterization of New Co(II) Complexes. Their Catalytic Activity in Oxidation Reactions by Molecular Oxygen. *Inorg. Chimica Acta*, 320: (1-2), 2001, 168-172.
21. Al. Cecal, M. Palamaru, **A. Pui**, S. Chișcă, A. Iordan, Radiometric metod for the study of the nucleation of crystals containing $^{134}Cs^+$ ions in gelatin, *J. Radioanalytical and Nuclear Chemistry*, 222, 1-2, (1997), 39-43.
22. I. Berdan, **A. Pui**, Complexes du Tl (III) avec les acides pyridine-carrboxyliques, *Bull. Soc. Fr.*, 128, 1991, 842-845.

Articole cu ISI in tara

23. **A. PUI**, D. GHERCA, G. CARJA, CHARACTERIZATION AND MAGNETIC PROPERTIES OF CAPPED $CoFe_2O_4$ NANOPARTICLES FERRITE PREPARED IN CARBOXYMETHYLCELLULOSE SOLUTION, Digest Journal of Nanomaterials and Biostructures Vol. 6, No 4, October-December 2011, p. 1783-1791.
24. **Aurel Pui**, Catalin Tanase, Danut-Gabriel Cozma, Tiberius Balaes, Assessment of MACROMYCETES USING FOURIER TRANSFORM INFRARED SPECTROSCOPY AND CHEMOMETRICS, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, accepted.
25. .D-G. Cozma, **A. Pui**, R. Ricoux, J-P. Mahy, Estimation of Kinetic Parameters for the Catalytic Oxidation of Substituted Phenols in Liquid-phase, *Rev. Chim (Bucharest)*, 62, 1, 2011.
26. Popa K, **Pui A**, Tanase C. et al., Monitoring of $Ra-226$ and $Cs-137$ Radioisotopes on Bistrita Valley and their Translocation in Spontaneous Macromycetes, *REVISTA DE CHIMIE*, 61:9, (2010), 894-896.
27. Cozma D, Tanase C, Tunsu C, Olariu, Romeo-Iulian, Ionas Alin, **Pui Aurel**, STATISTICAL STUDY OF HEAVY METAL DISTRIBUTION IN THE SPECIFIC MUSHROOMS FROM

- THE STERIL DUMPS CALIMANI AREA, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 9: 5, (2010), 659-665.
28. **Pui A**, Cornei N, Ricoux R, Mahy J. P., Synthesis Characterization and Catalytic Activity of Some New Manganese (II) Compounds with Tetra-chloro R-bis(salicylaldehyde) Ethylenediamine and R- bis(salicylaldehyde) Phenylenediamine Ligands (R= H, CH₃, CH₂-CH₃), *REVISTA DE CHIMIE*, 61:6, (2010), 575-579.
 29. **Pui A**, Perree-Fauvet M, Korri-Youssouf H, Iuliana Breaban, Bis(3-X, alpha,5-Dimethyl salicylaldehyde)ethylene Diamine Nickel(II) Complexes Synthesis and Characterization, *Rev. de Chimie*, Buc, 60:8 (2009), 763-766.
 30. I. CAPLANUS, V. SUNEL, C.-I. BABAN, D. G. COZMA, **A. PUI**, G. I. RUSU, Study on the Electronic Transport Properties of Some New Complexes of Cu (II) with Asparagines, Aspartic Acid and Their Derivatives, *Rev. de Chimie*, Buc., 60:12 (2009), 1247-1250.
 31. Dumitras-Hutanu CA, **Pui A**, Jurcoane S, Drochioiu G., Biological effect and the toxicity mechanisms of some dinitrophenyl ethers, *Romanian Biotechnological Letters*, 14: 6 (2009), 4893-4899.
 32. C. Tanase, **A. Pui**, R. Olariu, D. G. Cozma, Analysis of heavy metals content in the soil and in the macromycetes species growing on mine waste dumps, *Revista de Chimie București*, 59, 5, 2008.
 33. **A. Pui**, H. Fischer, H. Kopf, Spectral and electrochemical studies of manganese(III) and iron(III) complexes with substituted 3,4-bis{[(2-hydroxyphenyl)methylene]amino} benzene, *Rev. de Chimie*, Buc., 12 (2008), .
 34. **Aurel Pui**, D. Humelnicu, I. Humelnicu, Synthesis of some complexes of dioxouranium(VI) with di-halogeno-tetra-methyl salen ligands, *Rev. Roum. Chim.*, 53 (3), 2008, 117-182.
 35. Catalin Tanase, **Aurel Pui**, Application of the FT IR spectroscopy in the study of fungi, *Revista de Chimie București*, 59, 2, 2008, 212-215.
 36. **Aurel Pui**, Mihaela-Aurelia Vizitiu, Bis. (3-halogeno α ,5-diMethyl salicylaldehyde) ethylenediamine copper (II) complexes; synthesis characterization and electronic influence, *Rev. de Chimie Bucuresti*, 58 (1), 2007, 25-27.
 37. **Aurel Pui**, Synthesis, characterisation and catalytic activity of the tetra-cloroSalen and tetra-cloro Salophen copper (II) complexes, *Rev. Roum. Chim.*, 51 (12), 2006, 1177-1182.
 38. **Aurel PUI**, Alexandru Cascaval Compuși coordinativi dinucleari ai Cu(II) cu derivați de bis(3-R₁, 4-R₂, 5-Br, α -R _{α} salicil)1,5 pentilendiamină (R₁=H, Br, R₂= H, -CH₃, R _{α} =H, CH₃, -CH₂-CH₃), *Rev. Chimie, Bucuresti*, Nr. 5 (57), 2006, p.525.
 39. **Aurel PUI**, Danut Gabriel Cozma, Mihaela PUI, Cinetica oxidării catalitice a fenolilor cu oxigen molecular în prezența unor compuși coordinativi ai manganului cu baze Schiff, *Revista Mat. Plastice*, vol. 42, (2), 2005. p 138-141.
 40. **Aurel PUI**, Alexandru Cascaval, Synthesis and characterization of tetrahalogeno α -methyl Salen ligands and their Ni(II) complexes, *Revista de Chimie Bucuresti*, 56, (8), 2005, 861-865,.
 41. **A. Pui**, Al. Cecal, G. Drochioiu, Coordinative compounds of M(II) M=Mn, Fe, Co, Ni and Cu) with tetridentate diimine pyrrole Schiff bases, *Rev. Roum. Chim.*, 48(6), 2003, 439-443,.
 42. **Aurel Pui**, Ioan Berdan, Studii privind formarea compușilor coordinativi ai Cu(II) cu baze Schiff, *Revista de Chimie*, 53, (1), 2002, 9-14.
 43. **Aurel Pui**, Ioan Berdan, Aurore Gref and Irène Morgenstern-Badarau, New Manganese(II) Complexes with Catalytic Activity in oxidation reaction by molecular oxigen, *Rev. Roum. Chimie*, 47 (7), 2002, 607-612.
 44. D. Cozma, **A. Pui** și Al. Luca, Studii privind complexii de Mn(III) și Mn(IV) cu liganzi aminosulfonici prin voltametrie ciclică, *Revista de Chimie*, 53, (8), (2002), 590-594.
 45. **Aurel Pui**, Ioan Berdan and Dănuț-Gabriel Cozma, Coordinative compounds of Co(II) with Schiff bases, *Rev. Roum. Chimie*, 47 (10-11), 2002, 1147-1153

46. G. Drochiou, **A. Pui**, Ramona Danac, Cristina Basu and Manuela Murariu, Improved spectrophotometric assay of cyanide with picric acid and resorcinol, *Rev. Roum. Chim.*, 48 (8), 2002, 601-606.
47. **Aurel Pui**, Ioan Berdan, Aurore Gref, Irène Morgenstern-Badarau, Synthesis and Characterization of new Cu(II) Complexes with Catalytic Activity in Oxidation Reactions by Molecular Oxygen, *Rev. Roum. Chimie*, 46 (8), 2001, 67-72.
48. **Aurel Pui**, Synthesis and characterisation of new Cu(II) complexes with catalytic activity in oxidation reactions by molecular oxygen, *Rev. Roum. Chimie*, 46 (8), 2001, 873-878.
49. **Aurel Pui**, Ioan Berdan, Mirela Goanță, Dumitru Ganju, Binding of molecular oxygen to the Mn^{II}(RSalen) complexes (R = -NO₂, -CH₃, -C₂H₅, -I; Salen = bis(Salicylaldehyde) ethylenediamine) in nonaqueous solution, *Rev. Roum. Chimie*, 46 (5), 2001, 497-501.
50. **A. Pui**, I. Berdan și Al. Cașcaval, Catalytic properties of some adducts of the coordination compounds of transitional metals with molecular oxygen, *Rev. Roum de Chimie*, 45(4), 2000, 331-335.
51. **Aurel Pui**, Ioan Berdan, Gabriel Căruntu și Dănuț Cozma, Efectul substituenților și al bazei axiale asupra potențialelor redox ale cuplului Co^{III}/Co^{II} din compuși coordinativi cu baze Schiff, *Revista de Chimie*, 51 (10), 2000, 799-801.
52. **Aurel Pui**, Ioan Berdan și Martine Peree-Fauvet, Implicațiile compușilor coordinativi în procese de oxidări catalitice; influența catalizatorului asupra produșilor de reacție, *Revista de Chimie*, 51 (12), 2000, 971-974.
53. **A. Pui**, I. Berdan și Gh. Stoica, Coordinative compounds of Co(II) with bis(α -pyrrole-aldehyde) ethylenediamine, *Rev. Roum. Chimie*, 44 (3), 1999, 195-199.

Articole fara ISI in tara

1. D. G. Cozma, **A. Pui**, Dinuclear nikel(II) complexes with bis(3-R₁, 4-R₂, 5-Br, α -R₃ substituted salicylaldehyde) 1,5 penhylendiamine (R₁=H, Br, R₂=H, CH₃, R₃ = H, CH₃, C₂H₅); synthesis and characterisation, *Anal. St. Univ. "Al. I. Cuza" Iași*, Seria Chimie tom. XV, nr. 1, ian-iun, 2007, 37-40.
2. O. Pintilie, V. Sunel, L. Porfire, **A. Pui**, Synthesis and antimicrobial activity of some new (sulfonamidophenyl)-amide of N-(m-Nitrobenzoyl)-D, L-Methyionine, *Farmacica*, Vol. LV. 3, (2007), 345-352.
3. R. Molnar, D. Creanga, A. Pui, R. Riscanu, M. Murariu, C. Ciobanu, M. Neica, G. Drochiuiu, Dinitrophenol pesticides: Biological activity, toxicity and action mechanism, *Univ. de Stiinte agricole si medicina veterinara, „I. I. Brad” Iasi*, *Lucrari stiintifice*, Seria Agronomie, vol. 49, 2006, 352-357.
4. **A. Pui**, D.G. Cozma, L. Ciobanu-Fudulache, M. L. Bocancea, Coordinative compounds of Fe (II) with Schiff bases in aqueous solution. determination of the molar ratio and stability constants, *Anal. St. Univ. "Al. I. Cuza" Iași*, Seria Chimie tom. XIV, nr. 2, iulie-decembrie, 2006, 69-76.
5. I. Breaban, C. Tanase, **A. Pui**, D. Condurachi, The study of the degraded soil using the infrared spectroscopy, *Univ. de Stiinte agricole si medicina veterinara, „I. I. Brad” Iasi*, *Lucrari stiintifice*, Seria Agronomie, vol. 49, 2006.
6. Mihaela Fodor, Doina Sibiescu, **Aurel Pui**, Coordination compounds of Co(II) and Cu(II) with ligands derived from morpholine-carbodionnic acids, *Anal. St. Univ. "Al. I. Cuza" Iași*, Seria Chimie tom. XIV, nr. 2, iulie-decembrie, 2006, 87-90.
7. N. Melniciuc-Puica, **A. Pui**, M. Florescu, FT IR spectroscopy for the analysis of the vegetable tanned ancient leather, *Eur. J. Science and Theology*, 2006, Vol. 2, Nr. 4, p. 77-83.

8. V. Sunel, O. Pintilie, L. Porfire, **A. Pui**, M. Popa, Synthesis and potential tuberculostatic action of some hydrazides with N-(m-nitrobenzoyl)-D,L-methionine support, *Anal. St. Univ. "Al. I. Cuza" Iași*, Seria Chimie tom. XIV, nr. 2, iulie-decembrie, 2006, 13-20.
9. **Aurel Pui**, Corina Malutan, Coordinative compounds of Ni(II) with tetra-chloro-salen and salophen types ligands, *Bul. I.P.I., Tom LI (LV), Fasc. 3-4*, 2005, 23-29.
10. D. Bulgariu, L. Bulgariu, **A. Pui**, The extraction and determination of cadmium from soils (I), *Anall. St. Univ. „Al. I. Cuza” Iasi, Geologie, Tom. XLIX-L*, 2003/2004, 31-44.
11. Th. Malutan, **A. Pui**, Modelarea matematica a hidrolizei celulozei in conditii nestationare, *Celuloza si Hartie*, 53 (2), 2004, p.28.
12. Theodor Măluțan, **Aurel Pui**, Corina Măluțan, Aplicații ale spectroscopiei ATR-FT IR în domeniul fabricării hârtiei, *Celuloza si Hartie*, 53 (2), 2004, 28-32.
13. M. Girtan, **A Pui**, E, Indea, M. Tasca, N. Apetroaie, Investigation on surface free energy of indium oxide thin films, *Acta Technica Napocensis*, 45, 2002, 85-89.
14. Th. Malutan, P. P. Obrocea și **A. Pui**, Spectroscopia IR a celulozelor obținute prin procedeul sulfat cu aditivi, *Celuloză și hârtie*, anul 51, nr. 4, 2002, 17-20.
15. **A. Pui**, D. G. Cozma, Mihaela Pui and Corina. Malutan, Kinetics of Catalytic oxidation of phenols with molecular oxygen catalysed by transition metal complexes, *Bul. I.P.I. Iași*, tom XLVIII (LII), fasc. 3-4, 2002, 53-59.
16. **Aurel Pui**, Mihaela Pui, Theodor Malutan, Formation and stability of iron (II) adducts, *Bul. Inst. Pol. Iasi*, tom. XLVII (IL), fasc. 1-2, 2001, p. 79-85.
17. **Aurel Pui**, D. Cozma, I. Berdan, Etude sur la formation des composés de coordination du manganèse avec des bases Schiff, *Anal. St. Univ. "Al. I. Cuza" Iași*, Chimie, tom. IX, 2001, 35-40.
18. **Aurel Pui**, Corina Măluțan, Dănuț-Gabriel Cozma, Equilibria of formation of the nickel complexes with Schiff bases, *Bul. I.P.I. Iași*, XLV (IL), fasc. 1-2, 2002, 29-35.
19. **Aurel Pui**, Ioan Berdan, Mihaela Pui, D.Cozma, New tetradentate Schiff bases and their nickel (II) complexes, *Anal. St. Univ. "Al. I. Cuza" Iași*, tom.VIII, nr.1, (2000), p. 87-92.
20. **Aurel Pui**, Malutan Teodor, Mircea-Odin Apostu Aurora Gref, Synthesis and Characterization of New Fe(II) Schiff Bases Complexes. *Buletinul I.P.I. Iasi*, Iasi, tom XLVI (IL), fasc. 3-4, (2000), p. 41-46.
21. **Aurel Pui**, Theodor Malutan Mihaela Pui, Catalytic properties of some adducts of the coordination compounds of Mn(II), *Bul. I.P.I., Iasi*, tom XLV (IL), fasc. 3-4, (1999), 37-42,.
22. **A. Pui**, I. Berdan, G. Căruntu, S. Farcaș, Catalytic properties of some coordination compounds of Cu(II), *Anal. St. Univ. "Al. I. Cuza" Iași*, tom VII, nr. 1, (1999), 31-38.
23. I. Berdan, Doina Humelnicu și **A. Pui**, Complexes du Ni(II) avec le bis-(formil-2-pyrrole) éthyldiamine, *Anal. St. Univ. "Al. I. Cuza" Iași*, III, Chimie, 89 (1995), 89-96.
24. D. Gânju, P. Onu, S. Șova, V. Ababi, Doina Humelnicu și **A. Pui**, Structural characterization of some zeolites isomorphically substituted with iron, *Anal. St. Univ. "Al. I. Cuza" Iași*, III, Chimie, 189 (1995), 190-194.
25. Al. Cecal, Doina Humelnicu, **A. Pui**, Carmen Balan, Quelques consideration sur l'échange isotopique dans le systeme Tl (solide) - $^{204}\text{Tl}^+$ (solution); *Anal. St. Univ. "Al. I. Cuza" Iași*, III, Chimie, 81 (1995) 81-84.
26. I. Berdan, T. Antonescu, T. Farcaș și **A. Pui**, Etude physico-chimique de certaines oxydes de plomb utilisés comme masses électrochimique-actives dans l'accumulateur au plomb, *Anal. St. Univ. "Al. I. Cuza" Iași*, III, Chimie, 97, 1995, 97-107.
27. I. Berdan, **A. Pui**, Al. Cașcaval, Combinations complexes du Ni(II) avec des bases Schiff, *Anal. St. Univ. "Al. I. Cuza" Iași*, II, Chimie, 33, 1994, 33-38.

Studii publicate în volumele unor manifestări științifice internaționale

recunoscute din țară și din străinătate. Au fost prezentate peste 60 de lucrări științifice la manifestări științifice, din care 14 la manifestări științifice internaționale.

Congrese / conferințe internaționale:

1. Ramona Danac, Rodica Postolachi, and **Aurel Pui**, NEW N-YLIDES AND THEIR METAL COMPLEXES AS POTENTIAL INHIBITORS FOR GLUTAMATE RACEMASE, 11th International Conference on Calixarenes June 26-29, 2011, ICIQ, Tarragona, Spain
1. Claudia-Mihaela Hristodor, Tanasa Diana, Narcisa Vrinceanu, **Aurel Pui**, Eveline Popovici: SnO₂ – montmorillonite nanocomposites used in photocatalytic degradation of eosin Y DYE from wastewater, la Conferinta New Trends in Environmental and Materials Engineering TEME 2011, Galati <http://www.teme.ugal.ro/programme.htm>; <http://www.teme.ugal.ro/programme.htm> (prezentare orală).
2. Claudia-Mihaela Hristodor, Narcisa Vrinceanu, **Aurel Pui**, Ovidiu Novac, Ionut Bistricianu, Eveline Popovici, *Textural and morphological characterization of chitosan/bentonite nanocomposite used as drug matrix*, la The 6th INTERNATIONAL CONFERENCE ON ENVIRONMENTAL ENGINEERING AND MANAGEMENT – ICEEM06, GREEN FUTURE, 1 - 4 SEPTEMBER 2011, BALATONALMÁDI, HUNGARY, (prezentare orală), http://www.iceem06.iceem.eu/docs/ICEEM06_Program.pdf.
3. Narcisa VRINCEANU, Diana TANASA, Claudia Mihaela HRISTODOR, Eveline POPOVICI, Daniel Gherca, **Aurel PUI**, Andreea CARSMARIU, Ionut BISTRICIANU, Diana COMAN, "Synthesis and characterization of zinc oxide nanoparticles: application to textiles as thermal stabilizers", la CCEC-TAC1 The first Central Eastern European Conference on Thermal Analysis and Calorimetry, 7-10 septembrie 2011, Craiova, Romania (prezentare orală); <http://www.ceec-tac.org/>.
4. MIHAIL-LIVIU CRAUS, NICOLETA CORNEI, MIHAI LOZOVAN AND **AUREL PUI**, Crystalline structure and electronic phases of $\text{La}_{0.54}\text{Nd}_{0.11}\text{Sr}_{0.35}\text{Mn}_{1-x}\text{Co}_x\text{O}_3$ manganites, 2010, Seventh International Conference on Inorganic Materials, 12-14 September 2010, Bellevue Centre, Biarritz, France.
5. **A. Pui**, Synthesis, characterization and catalytic activity of some new Schiff bases complexes, 38 th International Conference on Coordination Chemistry; Jerusalem, Israel, iulie, 2008.
6. Tanase C, **Pui A**, Olaru R, et al., POLLUTED FUNGI SPECIES IN THE MINING WASTE HILLS CONIFEROUS NURSERIE, Conference Information: 8th International Scientific Conference on Modern Management of Mine Producing, Geology and Environmental Protection, JUN 16-20, 2008 Sofia, BULGARIA, Source: SGEM 2008: 8TH INTERNATIONAL SCIENTIFIC CONFERENCE, VOL II, CONFERENCE PROCEEDINGS Pages: 311-317 Published: 2008
7. R. Buhacianu, A. Barsanescu, V. Dulman, L. Odochian, I. Sarghie, **A. Pui**, I. Bunea, Comparative study on metal sorption by acrylic copolymers functionalized with triethylenetetramine, 4th BBCAC, 19-23 sept., Sunny Beach, Bulgaria.
8. TĂNASE C., CHINAN V., COJOCARIU Ana, **PUI A.**, BÎRSAN C., 2007, Fungi implicated in remediation process of soils degraded by mining activities, 5th European Conference on the Conservation of Wild Plants, Cluj-Napoca, 5–9th September, 2004: 59
9. TĂNASE C., COJOCARIU Ana, **PUI A.**, CHINAN V., BÎRSAN C., 2007, Mycoremediation of soils polluted by mining activities, XV Congress of European Mycologists, Saints Petersburg (Russia), 16-21 September, 2007: 103.
10. **A. Pui**, Coordinative compound implicate in synthesis of synthetic biocatalyst, Supramolecular chemistry from design to application - SUPCEM, Cluj Napoca, aprilie 2007.
11. Melniciuc Puica Nicoleta, **Aurel Pui**, Spectroscopia FT IR in analiza tanatului vegetal din piele veche, XI Th European Conference on Science and Thenology, Symposium on Religious art restoration and conservation, 3-5.04. 2006, Iasi.

12. Ramona Danac, Al. Rotaru, G. Drochioiu, **A. Pui**, I. Druta, Synthesis and characterization of novel derivated of 4,5-diazafluoren-9-one, *The 1st International Conference of the Moldavian Chelical Society*, 6-8 oct, 2003, Chisinau, R. Moldova.
13. **Aurel Pui**, Ioan Berdan, Danut Cozma, Aurora Gref, Irène Morgenstern-Badarau, Synthesis and Characterization of some Coordinative Compounds with Catalytic Activity, *prezentată la "The XVII-th conferance <<Physucal Metods inCoordination Chemistry>>"*, sept. 1999, Chişinău, R. Moldova.
14. I. Berdan, N. Calu, **A. Pui**, D. Humelnicu, Complex Compound with Schiff bases, *prezentată la "The XI-th conferance <<Physucal Metods in Coordination Chemistry>>"*, sept. 1993, Chişinău, R. Moldova.
15. I. Berdan, Carmen Măţă, D. Cozma, **A. Pui**, Mijloace și tehnici moderne de învățare în chimia anorganică, *prezentată la simpozionul "Metode contemporane și efective de instruire în chimie"*, martie 1993 Chişinău, R. Moldova.
16. I. Berdan, D. Cozma, **A. Pui**, Algoritmizarea și metoda învățării prin interogare reflexivă și problematizată, *prezentată la simpozionul "Metode contemporane și efective de instruire în chimie"*, martie 1992, Chişinău, R. Moldova.

Cărți și manuale realizate de candidat

1. Danut Gabriel Cozma, **Aurel Pui**, *Didactica Chimiei; teorie si aplicatii*, Ed. Performantica, 2009.
2. **A. Pui**, N. Cornei, D.G. Cozma, *Analiză structurală anorganică*, Ed. Performantica, Iași, 2008, 236 p., (ISBN 978-973-730-477-3).
3. **A. Pui**, *Chimia oxigenului*, Ed. Tehnopres, Iași, 2008, 206 p., (ISBN 978-973-702-539-5).
4. **A. Pui**, D. Cozma, *Bazele chimiei compușilor coordinativi*, Editia a II-a, Ed. Matrix Rom, București, print: 2006, 2003, 274 p., (Editia I-a, Ed. Matrix Rom, București, 2001, 260 p.), ISBN 973-685-334-9.
5. D.G. Cozma, **A. Pui**, *Elemente de didactica chimiei*, Ed. Spiru Haret, Iasi, 2003, 280 p., (ISBN 973-579-032-7).
6. **A. Pui**, D.G. Cozma, E. Iliescu, M. Grigoras, *Chimie - Subiecte, titularizare, definitivat, gradul II*, Ed. Panfilius Iasi, 2003, 116 p., (ISBN 973-85896-2-2).
7. D. G. Cozma, **A. Pui**, *Concepte și modele în predarea-învățarea chimiei*, Ed. Matrix Rom, București, 2002, 236p, (ISBN 973-685-359-4).
8. **A. Pui**, D. G. Cozma, I. Berdan, *Lucrari practice de Chimia compușilor coordinativi*, Ed. Univ. Iași, 150 p., print: 2001, 2003, 2006.
9. D. Cozma, M. Goanță, Doina Humelnicu, Carmen Măţă, **A. Pui**, *Exerciții și probleme de Chimie anorganică*, Editura Univ. "Al. I. Cuza" Iași, 1996, 250 p.

Brevete

L. Odochian, D. Dartu, **A. Pui**, I. Humelnicu, M. Dumitras, C. Tanase, L. Hancu, Brevet de inventie nr. 122359/2009, "Procedeu si instalatie de obtinere a hidrazinei", OSIM Bucuresti.

Proiecte de cercetare-dezvoltare-inovare pe bază de contract/grant

Granturi de cercetare:

Director / responsabil granturi de cercetare / dezvoltare la **3** granturi: **2 - naționale; 1 – internațional.**

Colaborator în **15** granturi de cercetare: **14** - cu finanțare internă; **1** - internațional.

Director

Grant EGIDE, 18896UC, 2008, 2009, trilateral, Franta – Romania - Moldova, “Nouveaux Catalyseurs Hybrides Métalloproteiques d'Oxydation Sélective”, directori: Remi Ricoux (Fr), Aurel Pui (Ro), Ghenadie Novitschi (R. Mo).

Grant CNCSIS, tip A, nr. 1163/2006, 2007, 2008, “Sinteza și caracterizarea spectrofotometrică (MALDI-TOF și ESI-FT-ICR-MS) a unor complecși metaloproteici cu aplicații în bolile degenerative”, director grant Aurel PUI.

Grant de cercetare tip T, cod CNCSIS 164, runda IV 2000-2002, 40.000 USD, cu tema “Noi oxizi complecși de nichel (cupru) și pământuri rare cu structura de intercrestere $(Ln,Sr)_{n+1}Ni(Cu)_nO_{3n+1}$ și proprietăți originale”, director Aurel PUI / Caruntu Gabriel.

Membru

Grant FLNP JINR Dubna-Russia, 2007/2008, “Nonstoichiometric manganitocobaltites: structure and transport phenomena”, director, Nicoleta Cornei.

Contract P-CD, Program CEEEX – BIOTECH nr. 128, 2006-2008, “Reconstrucția ecologică prin procedee de microremediere a solurilor degradate de activități miniere”, director grant, conf. dr. Catalin Tanase.

Contract P-CD, Program CEEEX – COLODEC (Aria tematica 6.2, P.T.25), 2006-2008, “Cercetări privind decolorarea unor soluții de coloranți prin metode oxidative, microbiologice și de sorbtie în scopul reabilitării și recirculării apelor uzate din industria textilă”, director, director grant prof. Dr. Viorica Dulman.

Proiect Parteneriat CNMP PNII Nr. 31-017/14.09.2007, 2007-20010, „Investigarea, monitorizarea și decontaminarea chimică și micro(biologică) a poluanților organici majori de tipul dinitrofenolderivatilor din mediul ambiant”, Director proiect prof. dr. Stefana Jurcoane, director partener UAIC, prof dr. Gabi Drochioiu.

Grant CNCSIS, tip A, nr. 23/1174, 2006 - 2008, “Microremedierea unor soluri poluate din zone considerate critice din punct de vedere ecologic”, director grant Catalin Tanase.

Grant Academia Romana, GAR 241/2007, Contract nr. 61/2007, „Metode chimice neconvenționale (micro)biologice de decontaminare a apelor naturale și a eluenților industriali de metale grele și radioactive”, Director proiect, prof dr. Gabi Drochioiu.

Grant cercetare nr.35252/2002, tema 56, Cod CNCSIS: 302, cu tema: “Cercetări privind reactivitatea și mecanismele de reacție ale compușilor coordinativi”. Faza 2, director prof. I. Berdan.

Grant cercetare nr.35252/2001, tema 13, Beneficiar CNCSIS:951; „Cercetări privind reactivitatea și mecanismele de reacție ale compușilor coordinativi”. Faza: Studiul echilibrelor cu formare de β -dicetonați metalici. Reacții de substituție și de adiție, director prof. Ioan Berdan.

Grant cercetare nr.32576/1999, tema 34, Beneficiar: CNCSIS:190, „Separarea și valorificarea unor componente utile din minereuri indigene și subproduse industriale”, Faza: Caracterizarea fizico-chimică a precursorilor și materialelor active din structura acumulatorului cu plumb, director prof. Ioan Berdan.

Grant cercetare nr.15/1998, tema 27, Beneficiar: CNCSU, “Separarea și valorificarea unor componente utile din minereuri indigene și subproduse industriale”. Faza: Valorificarea unor subproduse din industria acumulatorilor cu plumb, director prof. Ioan Berdan.

Grant cercetare nr.7011/1997, tema 32/702. Beneficiar: CNCSU, „Separarea și valorificarea unor componente utile din minereuri indigene și subproduse industriale”. Faza: Caracterizarea minereurilor de mangan și obținerea dioxidului de mangan activ, director prof. Ioan Berdan.

Grant cercetare nr.3557/1996. Beneficiar: M.C.T., „Cercetări privind obținerea și caracterizarea unor compuși coordinativi cu proprietăți optice și electrice speciale, director prof. Ioan Berdan.

Contract nr.1088/B-6/1993 - fază 1994, Beneficiar: MI, „Fixarea reversibilă a oxigenului molecular prin formare de aducți cu compuși coordinativi ai metalelor tranziționale”, director prof. Ioan Berdan.

Contract nr.3011/A-14. Beneficiar: MI, 1992;“Cercetări privind obținerea unor compuși coordinativi cu proprietăți speciale”, director prof. Ioan Berdan.

Iași
15.03.2012

Aurel Pui