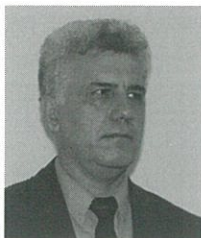


INFORMAȚII PERSONALE



Profesor universitar doctor la Universitatea „Alexandru Ioan Cuza” din Iasi

Decan
Facultatea de Chimie

Tel. +40 232 201276

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Data și locul nașterii: 12.10.1964, Maieru, jud. Bistrita-Năsăud,

DOMENIUL OCUPATIONAL

Profesor universitar doctor la Facultatea de Chimie, Universitatea „Alexandru Ioan Cuza” din Iasi

Domeniul: Chimie anorganica
Coordonator de doctorat, din 2009

EXPERIENȚA
PROFESIONALĂ

Experiența profesională /
universitară

Profesor universitar din 2008;
Conferențiar universitar, în perioada 2008-2002;
Lector universitar, în perioada 2002-1996;
Asistent universitar, în perioada 1996-1990.

Experiență profesională /
evaluare și expertiză

Evaluator ARACIS (Agenția Română de Asigurare a Calității în Învățământul Superior), din 2009;
Evaluator AQAS (Agentur für Qualitätssicherung durch Akkreditierung von Studiengängen), din 2015;
Expert Termen Scurt, ACPART- Proiect DOCIS (2009-2011)
Membru al Grupului Tehnic de Lucru pentru elaborarea ghidurilor privind cele mai bune tehnici disponibile, organizat pentru industria chimica, sectia chimie anorganica, de la Agentia Nationala de Protectia Mediului, Bucuresti, 2003.
Profesor de chimie la Școala generală nr. 2 Sighișoarea, județul Mureș; 1988 – 1990.

Experiență administrativă

Decan, Facultatea de Chimie, din 2016 până în prezent;
Prodecan cu activitatea de cercetare, Facultatea de Chimie, 2012 - 2016;
Director al Departamentului de Cercetare de la Facultatea de Chimie, 2012 - 2016;
Membru în Consiliu Facultății de Chimie: 2000-2003; 2012 – prezent;
Membru în Senatul Universității: ales în 2012 și în 2016;
Editor revista *Acta Chemica Iasi*, 2012 - 2016;.

DOMENII DE COMPETENȚĂ

Cadru didactic - Profesor (chimie) la Universitatea „Alexandru Ioan Cuza”, Facultatea de Chimie, din 1990 pana in prezent.

Domenii abordate:

Chimie coordinativă: sinteza caracterizarea și reactivitatea unor compuși coordinativi;

Chimia materialelor: sinteza și caracterizarea oxizilor micști cu structură de tip spinel;

Activități și responsabilități principale

ACTIVITATEA ȘTIINȚIFICĂ

Chimie bioanorganică: sinteza și caracterizarea unor transportori sintetici de oxigen; studiul fixării oxigenului molecular și studii de activitate catalitică;

Chimie anorganică: sinteza și caracterizarea unor compuși anorganici;

Analiză structurală prin spectroscopie IR pe plante, ciuperci, soluri, polimeri, obiecte de patrimoniu, compuși nanostructurați etc.

◦ activități didactice;

- activități de cercetare;

- îndrumare de doctorate, lucrări de licență, dizertație și lucrări metodico-științifice pentru obținerea gradului didactic I în învățământul preuniversitar.

CĂRȚI / ARTICOLE PUBLICATE:

- **Cărți**, cursuri universitare și manuale de lucrări practice: **10**

- **articole științifice** publicate în reviste de specialitate: **130**, din care: **62** în reviste **ISI** din **străinătate**, **38** în reviste **ISI** din **țară**, **28** în reviste non **ISI** din țară; poziția **22** pe **UAIC** din **2235** autori (<https://www.scopus.com/results/authorNamesList.uri...>)

- **participări** la manifestări științifice peste **50**.

Citări lucrări indexate/recenzate în baze de date internaționale: **peste 850**; în **SCOPUS**, **CAPLUS** and **MEDLINE**, de Institute for Scientific Information (**ISI**), **Chemical Abstracts**, **Current Contents** etc. **Indice Hirsch = 16**.

COORDONATOR ȘTIINȚIFIC: lucrări de licență (**30**), lucrări de disertație (**11**), lucrări metodico-științifice pentru obținerea gradului I în învățământul preuniversitar (**11**).

REFERENT ȘTIINȚIFIC la numeroase reviste internaționale (cotate **ISI**): **Journal of Coordination Chemistry**, **Inorganica Chimica Acta**, **Journal of Molecular Catalysis A: Chemical**, **Journal of Cellulose Chemistry**, **Journal of Environmental Chemistry**, **Textile Research Journal**, **Current Nanomaterials**, **Journal of the American Ceramic Society**, **International Journal of Food Properties**, **Journal of Thermal Analysis and Calorimetry**, **Comptes Rendus Chimie**, **Revista de Chimie**, **Journal of Nanomaterials**, **Applied Catalysis D** etc.

DIRECTOR / RESPONSABIL GRANTURI DE CERCETARE / DEZVOLTARE: cu finanțare internă: **2**; cu finanțare externă: **4**.

COLABORATOR ÎN GRANTURI DE CERCETARE: cu finanțare internă: **15**; cu finanțare externă: **2**.

Membru comisii promovare (pentru profesor/conferențiar) la Universitatea "Alexandru Ioan Cuza" din Iași, Universitatea din București, Universitatea Babeș Bolyai din Cluj Napoca, Universitatea Dunărea de Jos din Galați; Universitatea Tehnică "Gheorghe Asachi" din Iași.

Membru comisii doctorat la Universitatea "Alexandru Ioan Cuza" din Iași, Universitatea din București, Universitatea Tehnică "Gheorghe Asachi" din Iași.

SPECIALIZĂRI

2003 - 2004 (10 luni, oct. - aug.), bursă de cercetare **postdoctorat** la Universitatea Paris XI (Sud) Laboratoire de Chimie Bioorganique et Bioinorganique;

1997 - 1998 (10 luni, oct. - aug.), bursă de cercetare **doctorat** la Universitatea Paris XI (Sud) Laboratoire de Chimie Bioorganique et Bioinorganique;

1999 doctorat în Chimie, Specialitatea Chimie anorganică și bioanorganică.

EDUCAȚIE

1988, iunie, examen de licență;
1984 – 1988: la Facultatea de Tehnologie Chimică, Institutul Politehnic "Gh. Asachi" din Iași;
1983 iunie, examen de bacalaureat;
1981 - 1983: Liceul "Andrei Muresanu" Bistrița;
1979 – 1981: Liceul "Liviu Rebreanu" Bistrița;
1971 - 1979: Școala primară și gimnazială; Școala Generală Maieru, jud. Bistrița-Nasaud.

STAGII DE PREGĂTIRE ȘI
MOBILITĂȚI

2015 (01-30. 04), Staff mobility, Universitatea de Stat din Moldova, Proiect Ianus II;
2007-2017 (anual) mobilități Erasmus/Socrates la Universitatea Paris XI (Sud);
- 2008 și 2009, stagii de cercetare (de câte 3 săptămâni), Universitatea Paris-Sud (Paris XI) Laboratorul de Chimie Bioorganique et Bioinorganique, în cadrul unui proiect ECO-Net.
- 2007 iulie, o luna cercetator invitat, la Univ. Konstanz Germania;
- 2007 mai, stagiul de cercetare, Universitatea Paris-Sud (Paris XI) laboratorul de Chimie Bioorganique et Bioinorganique ;
- 2006 noiembrie, o luna cercetator invitat, la Univ. Konstanz Germania;
- 2002 iunie, 2 săptămâni stagiul de cercetare, Universitatea Paris-Sud (Paris XI) laboratorul de Chimie Bioorganique et Bioinorganique.

MEMBRU ÎN SOCIETĂȚI
ȘTIINȚIFICE

Membru al Societății Române de Chimie,

CUNOȘTINȚE UTILIZARE
COMPUTERE

Operare bună PC (Microsoft Office Word; Microsoft Office Power Point; Microsoft Office Excel; Origin, Internet (Explorer, Mozilla, Opera), Chem draw, Isis draw), operare specială aparate (Spectra manager, Opus, Mastrec, Cintral etc). ș.a.

LIMBI STRĂINE
CUNOSCUTE

Franceză (citit, scris, vorbit) , bine; Engleză (citit, scris, vorbit), nivel mediu.

Iași

Aurel Pui



Cărți și manuale

1. N. Cornei, A. Virlan, **A. Pui**, Materiale anorganice biocompatibile, Ed. Univ. "Al. I. Cuza", 2018, 242 p., (ISBN. 978-606-714-508-3).
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**, *Didactica Chimiei; teorie si aplicatii*, Ed. Performantica, 2009, ISBN: 978-973-730-603-6.
6. D.G. Cozma, **A. Pui**, *Elemente de didactica chimiei*, Ed. Spiru Haret, Iasi, 2003, 280 p., (ISBN 973-579-032-7).
7. **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).
8. D. G. Cozma, **A. Pui**, *Concepte și modele în predarea-învățarea chimiei*, Ed. Matrix Rom, București, 2002, 236p, (ISBN 973-685-359-4).
9. **A. Pui**, D. G. Cozma, I. Berdan, *Lucrari practice de Chimia compușilor coordinativi*, Ed. Univ. Iași, 150 p., print: 2001, 2003, 2006.
10. D. Cozma, M. Goanță, Doina Humelnicu, Carmen Măță, **A. Pui**, *Exerciții și probleme de Chimie anorganică*, Editura Univ. "Al. I. Cuza" Iași, 1996, 250 p.



Lista de publicații

I. Articole ISI

1. Muresan E.I., Diaconu M., Zaharia C., Rosu G., Danila A., Pui A., Bioactive Textiles Obtained by Using Aqueous Extracts of Vine Leaves, 2020, *Fibers and Polymers*, 21 (11), pag. 2505-2512.
2. Sescu A.M., Harja M., Favier L., Berthou L.O., de Castro C.G., Pui A., Lutic D., Zn/la mixed oxides prepared by coprecipitation: Synthesis, characterization and photocatalytic studies, 2020, *Materials*, 13 (21), pag. 1-19.
3. Elghniji K., Ouled Amor C., Virilan C., Pui A., Elaloui E. Separation and Identification of Minerals Composing the Silica Sands (Southwestern Tunisia), 2020, *Mining, Metallurgy and Exploration*, 37 (5), pag. 1753-1763.
4. Humelnicu D., Pui A., Malutan C., Malutan T., Humelnicu I., Synthesis, characterization and theoretical investigations of new uranium (VI) and thorium (IV) complexes with 1-furfurylaldehyde-derived Schiff bases as ligands, 2020, *Journal of Saudi Chemical Society*, 24 (6), pag. 451-460.
5. Zaharia M., Mihai M., Roman T., Zbancioc G., Pui A., Gradinaru R.V., Logigan C., Drochioiu G., Unusual ferrite induced photohydrolysis of dinitrophenols to nonaromatic and nontoxic derivatives, 2020, *Journal of Photochemistry and Photobiology A: Chemistry*, 394, 112497.
6. Trandafir E.V., Ciocarlan R., Pui A., Hempelmann R., Caltun O.F., Influence of precipitating agent concentration on nanoparticles size and magnetic properties of zinc ferrites, 2020, *Revista de Chimie*, 71 (2), pag. 10-14.
7. Ramona Danac, **Aurel Pui**, Ion Corja, Roxana-Maria Amarandi, Catalina Ionica Ciobanu, Mircea-Odin Apostu, Oleg Palamarciu, New M(II) (M=Mn, Co, Ni, Cu, Zn, Pd) coordinative compounds with 2-formylpyridine S-methyl-isothiosemicarbazide, *Journal of Molecular Structure*, 1207, **2020**, 127747.
8. Radu-G. Ciocarlan, Iztok Arcon, **Aurel Pui**, Myrjam Mertens, Natasa Novak Tusar, Elena M. Seftel, Pegie Cool, In-depth structural characterization and magnetic properties of quaternary ferrite systems $\text{Co}_{0.5}\text{Zn}_{0.25}\text{M}_{0.25}\text{Fe}_2\text{O}_4$ (M = Ni, Cu, Mn, Mg), *Journal of Alloys and Compounds*, 816, **2020**, 152674.
9. C. Virilan, F Tudorache, **A Pui**, Tertiary NiCuZn ferrites for improved humidity sensors: a systematic study, *Arabian Journal of Chemistry*, 13(1), **2020**, pp. 2066-2075
10. Roman, T., **Pui, A.**, Lukacs, A.V., Cimpoesu, N., Lupescu, S., Borhan, A.I., Kordatos, K., Ntziouni, A., Postolache, P., Zaharia, M., Stanciu, S., Mitoșeriu, L., Structural changes of cerium doped copper ferrites during sintering process and magneto-electrical properties assessment, *Ceramics International*, 45 (14), **2019**, Pages 17243-17251
11. Palamarciuc, O., Milunović, M.N.M., Sîrbu, A., Stratulat, E., **Pui, A.**, Gligorijevic, N., Radulovic, S., Kožiček, J., Darvasiová, D., Rapta, P., Enyedy, E.A., Novitchi, G., Shova, S., Arion, V.B., Investigation of the cytotoxic potential of methyl imidazole-derived thiosemicarbazones and their copper(ii) complexes with dichloroacetate as a co-ligand, *New Journal of Chemistry*, 43, Issue 3, **2019**, Pages 1340-1357.
12. Trandafir, E.V., Caltun, O.F., Ciocarlan, R., **Pui, A.**, Hempelmann, R., Diamandescu, L.d, Cervera, S.e, Trassinelli, M.e, Vernhet, D., Effect of slow charged 90 keV Ne⁸⁺ ions on zinc ferrite nanoparticles, *Materials Research Express*, 6 (9), **2019**, Article number 095077.
13. Roman, T., Asavei, R.-L., Karkalos, N.E., Roman, C., Virilan, C., Cimpoesu, N., Istrate, B., Zaharia, M., Markopoulos, A.P., Kordatos, K., Stanciu, S., **Pui, A.**, Synthesis and adsorption properties of nanocrystalline ferrites for kinetic modeling development, *International Journal of Applied Ceramic Technology*, 16, Issue 2, March/April **2019**, Pages 693-705.
14. Amor, C.O., Kais elghnija, Virilan, C., **Pui, A.**, Elaloui, E. , Effect of dysprosium ion (Dy 3+) doping on morphological, crystal growth and optical properties of TiO₂ particles and thin films, *Physica B: Condensed Matter*, 560, 1 May **2019**, Pages 67-74.

15. Muresan, E.I., Pui, A., Măluțan, T., Coroabă, A., Cimpoesu, N., Istrate, B., Pinteală, M., Hard meso/macroporous iron oxide/iron silicate macrospheres obtained by the multi-templating technique, *Journal of Chemical Technology and Biotechnology*, 94 (9), **2019**, Pages 2888-2898
16. Elghniji, K., Virlan, C., Elaloui, E., Pui, A., Synthesis, characterization of SiO₂ supported-industrial phosphoric acid catalyst for hydrolysis of NaBH₄ solution, Phosphorus, Sulfur and Silicon and the Related Elements, 193, Issue 12, 2 December, **2018**, Pages 806-821.
17. Murariu, M., Habasescu, L., Ciobanu, C.-I., Gradinaru, R.V., Pui, A., Drochioiu, G., Mangalagiu, I., Interaction of Amyloid A β (9–16) Peptide Fragment with Metal Ions: CD, FT-IR, and Fluorescence Spectroscopic Studies, *International Journal of Peptide Research and Therapeutics*, 25 (3), **2019**, Pages 897-909.
18. Amărandi, R.-M., Lückmann, M., Melynys, M., Jakobsen, M.H., Fallah, Z., Spiess, K., Hjortø, G.M., **Pui, A.**, Frimurer, T.M., Rosenkilde, M.M., Ligand-selective small molecule modulators of the constitutively active vGPCR US28, *European Journal of Medicinal Chemistry*, 155, 15 July **2018**, Pages 244-254.
19. Ciocarlan, R.-G., Seftel, E.M., Mertens, M., **Pui, A.**, Mazaj, M., Novak Tusar, N., Cool, P., Novel magnetic nanocomposites containing quaternary ferrites systems Co_{0.5}Zn_{0.25}Mn_{0.25}Fe₂O₄ (M = Ni, Cu, Mn, Mg) and TiO₂-anatase phase as photocatalysts for wastewater remediation under solar light irradiation, *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, Volume 230, April **2018**, Pages 1-7.
20. C. Virlan, O.F. Caltun, D. Lutic, **A. Pui**, New bio-surfactant used in the synthesis of functionalized nanoferrites as potential catalysts, *Current Nanoscience* Volume 13, Issue 3, **2017**, Pages 247-253.
21. C. Virlan, F. Tudorache, **A. Pui**, Increased sensibility of mixed ferrite humidity sensors by subsequent heat treatment, *International Journal of Applied Ceramics Technology*, *International Journal of Applied Ceramic Technology*, 14(6), pp. 1174-1182
22. Muresan, E.I., Lutic, D., Lisa, G., **Pui, A.**, Mesoporous aluminosilicate macrospheres obtained by spray gelling technique, *Journal of Sol-Gel Science and Technology*, **2017**, 81 (3) p. 934-944.
23. Lückmann, M., Amaranandi, R.-M., Papargyri, N., Jakobsen, M.H., Christiansen, E., Jensen, L.J., **Pui, A.**, Schwartz, T.W., Rosenkilde, M.M., Frimurer, T.M., Structure-based discovery of novel US28 small molecule ligands with different modes of action, *Chemical Biology and Drug Design*, **2017**, 89 (3), 289-293.
24. Virlan, C., Bulai, G., Caltun, O.F., Hempelmann, R., **Pui, A.**, Rare earth metals' influence on the heat generating capability of cobalt ferrite nanoparticles, *Ceramics International*, 42 (10), **2016**, Pages 11958-11965.
25. Karlshøj, S., Amaranandi, R.M., Larsen, O., Daugvilaite, V., Steen, A., Brvar, M., Pui, A., Frimurer, T.M., Ulven, T., Rosenkilde, M.M., Molecular mechanism of action for allosteric modulators and agonists in CC-chemokine receptor 5 (CCR5), *Journal of Biological Chemistry*, 29 (52), 2016, p.26860-26874.
26. M. Airimioaei, R. Stanculescu, V. Preutu, C. Ciomaga, N. Horchidan, S. Tascu, D. Lutic, **A. Pui**, L. Mitoseriu, Effect of particle size and volume fraction of BaTiO₃ powders on the functional properties of BaTiO₃/poly(ϵ -caprolactone) composites, *Materials Chemistry and Physics*, 182 (**2016**) 246e255.
27. Ciocarlan, R.G., **Pui, A.**, Gherca, D., Virlan, C., Dobromir, M., Nica, V., Craus, M.L., Gostin, I.N., Caltun, O., Hempelman, R., Cool, P., Quaternary M_{0.25}Cu_{0.25}Mg_{0.5}Fe₂O₄ (M = Ni, Zn, Co, Mn) ferrite oxides: Synthesis, characterization and magnetic properties, *Materials Research Bulletin*, 81, **2016**, p. 63-70.
28. V. Popescu, **A. Pui**, I. V. Sandu, G. Sandu, Eco-friendly Dyeings of Textiles with Extract from Pomegranate Arils with Seeds Spectroscopic, colorimetric and statistical assessment, *REV.CHIM.(Bucharest)*, 67 (2), **2016**, 270-275.
29. Muresan, E.I., Puitel, A., **Pui, A.**, Radu, C.D., Tampu, D., Cimpoiesu, N., Sandu, I., Hierarchically bimodal porous metallosilicate catalysts for acetolysis of epichlorohydrin, *Revista de Chimie*, 67 (4) **2016**, pag. 659-664.
30. Postolachi, R., Danac, R., **Pui, A.**, New coordinative compounds with 4-(4'-pyridyl)pyridinium disubstituted mono ylides, *Croatica Chemica Acta*, 88 (3), **2015**, pp. 207-211
31. Cozma, Danut Gabriel; Gherca, Daniel; Mihalcea, Ionut; Nicoleta Cornei, **Aurel Pui**, Correlation Between Size of CoFe₂O₄ Nanoparticles Determined from Experimental and Calculated Data by Different Mathematical Models, *CURRENT NANOSCIENCE*, 10 (6) **2014**, 869-876

32. D. Gherca, **A. Pui**, V. Nica, O. Caltun, N. Cornei, Eco-environmental synthesis and characterization of nanophase powders of Co, Mg, Mn and Ni ferrites, *Ceramics International* 40 (2014) 9599–9607.
33. Diana Mardare, Nicoleta Cornei, Dumitru Luca, Marius Dobromir, Ștefan A. Irimeciuc, Luciana Pungă, **Aurel Pui** and Cătălin Adomniței, Synthesis and hydrophilic properties of Mo doped TiO₂ thin films, *JOURNAL OF APPLIED PHYSICS*, 2014, 115, 21, 213501_1-5
34. Cristina Rîmbu, Ramona Danac, **Aurel Pui**, Antibacterial Activity of Pd(II) Complexes with Salicylaldehyde-Amino Acids Schiff Bases Ligands, *Chem. Pharm. Bull.* (2014) 62(1) 12–15.
35. Zaharia, M; Borhan, A; Gherca, D; **Pui, A**; Gradinaru, R; Zbancioc, G; Drochioiu, G, Study on the mechanism of ferrite-induced dinitrophenol photodegradation, *EUROPEAN JOURNAL OF MASS SPECTROMETRY*, 2014, 20, 2, 193-197.
36. C. Tanase, L. Odochian, T. Balaes, G. Lisa, D. Gherca, **A. Pui**, Study of thermal behaviour of some edible mushrooms, *J Therm Anal Calorim* (2014) 115:947–953.
37. Gherca, D., Cornei, N., Mentré, O., Kabbour, H., Daviero-Minaud, S., **Pui, A.** In situ surface treatment of nanocrystalline MFe₂O₄ (M = Co, Mg, Mn, Ni) spinel ferrites using linseed oil, *Applied Surface Science*, 2013, 287, 490-498.
38. Postolachi, R., Danac, R., Buurma, N.J., **Pui, A.**, Balan, M., Shova, S., Deleanu, C., New cycloimmonium ylide ligands and their palladium(ii) affinities, *RSC Advances*, 2013, 3 (38), pp. 17260-17270.
39. Vrinceanu, N., Tanasa, D., Hristodor, C.M., Brinza, F., Popovici, E., Gherca, D., **Pui, A.**, Coman, D., Carsmariu, A., Bistricianu, I., Broasca, G., Synthesis and characterization of zinc oxide nanoparticles: Application to textiles as thermal barriers *Journal of Thermal Analysis and Calorimetry*, Volume 111, Issue 2, February, 2013, Pages 1107-1119
40. **A. Pui**, D. Gherca, N. Cornei, Synthesis and characterization of MFe₂O₄ (M=Mg, Mn, Ni) nanoparticles, *Materials Research Bulletin*, 2013, 48(4), Pages 1357-1362, ISI = 2.105
41. Valentin Nica, Gherca Daniel, Cristian Ursu, Florin Tudorache, Florin Brinza, **Aurel Pui**, Synthesis and Characterization of Co-Substituted Ferrite Nanocomposites, *IEEE TRANSACTIONS ON MAGNETICS*, 2013, 49 (1), Pages 26-29. ISI = 1.363.
42. **Pui, Aurel**; Tanase, Catalin; Cozma, Danut-Gabriel; et al., ASSESSMENT OF MACROMYCETES USING FOURIER TRANSFORM INFRARED SPECTROSCOPY AND CHEMOMETRICS, *ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL*, 2013, 12 (3), Pages: 527-534.
43. R. POSTOLACHI, R. DANAC, A. MOISE, T. MALUȚAN, M. PRZYBYLSKI, **A. PUI**, Pyridinium ylides as potential inhibitors for Glutamate Racemase, *Revista de Chimie*, 2013, 64 (11), pp. 1301 – 1306.
44. Daniel, G., Ciocarlan, R.-G., Cozma, D.-G., Cornei, N., Nica, V., Sandu, I., **Pui, A.**, Influence of surfactant concentration (carboxymethylcellulose) on morphology and particle sizes of cobalt nanoferrites, *Revista de Chimie*, 2013, 64 (8), pp. 848-851.
45. M. ZAHARIA, S. JURCOANE, D. MAFTEI, **A. PUI**, C. A. DUMITRAS-HUTANU, AND R.T GRADINARU, Yeast biodegradation of some pesticide dinitrophenols, *Biotechnological Letters*, 2013, 18 (2), pp. 8144-8151
46. Marius Zaharia, Dan Maftei, Cristina Amalia Dumitras-Hutanu, **Aurel Pui**, Zomi Claude Lagobo, Olga Pintilie and Robert Gradinaru, Biodegradation of pesticides DINOCAP and DNOC by yeast suspensions in a batch system, *Rev. Chim. Bucuresti*, aprilie, 2013, 64 (4), pp. 388-392.
47. Daniel Gherca, **Aurel Pui**, Nicoleta Cornei, Alina Cojocariu, Valentin Nica, Ovidiu Caltun, Synthesis, characterization and magnetic properties of MFe₂O₄ (M = Co, Mg, Mn, Ni) nanoparticles using ricin oil as capping agent, *J. Magn. Magn. Materials*, 324 (2012), 2012, 3906–3911, ISI = 1.78
48. Ramona Danac, Raluca Rusu, Alexandru Rotaru, **Aurel Pui**, Sergiu Shova, New conjugates of calix[4]arenes bearing dipyridine and indolizine heterocycles, *Supramolecular Chemistry*, Volume 24, Issue 6, 2012, 424-435. ISI = 2.145
49. Irina Andreea Cozaciuc, Rodica Postolachi, Robert Gradinaru, **Aurel Pui**, Synthesis and characterization of uranyl(VI) chiral Schiff-base complexes derived from

- salicylaldehyde and L-aminoacids, *J. Coord. Chem.*, 65/12, 2012, pages 2170-2181, DOI: 10.1080/00958972.2012.690146, ISI = 1.547
50. Diana Tanasa, Narcisa Vrinceanu, Alexandra Nistor, Claudia Mihaela Hristodor, Eveline Popovici, Ionut Lucian, Bistricianu, 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. ISI = 1.122
 51. 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, 2012. ISI = 1.445
 52. **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. ISI = 2.057
 53. 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 ISI = 2.283
 54. 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. ISI = 1.445.
 55. **A. PUI**, D. GHERCA, G. CARJA, Characterization and magnetic properties of CoFe₂O₄ nanoparticles prepared in carboxymethylcellulose solution, *Digest Journal of Nanomaterials and Biostructures*, Vol. 6, No 4, October-December 2011, p. 1783-1791.
 56. 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.
 57. 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.
 58. 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.
 59. **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.
 60. 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.
 61. 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.
 62. **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.
 63. 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.
 64. 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.

65. 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.
66. 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.
67. **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), .
68. **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.
69. Catalin Tanase, **Aurel Pui**, Application of the FT IR spectroscopy in the study of fungi, *Revista de Chimie București*, 59, 2, 2008, 212-215.
70. **Aurel Pui**, Jean-Pierre Mahy, Synthesis, characterization and catalytic activity of halo- methyl-bis(salicylaldehyde) ethylenediamine cobalt(II) complexes, *Polyhedron*, 26, 2007, 3143-3152.
71. **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.
72. **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-halogeno-dimethyl salen complexes, *Inorg. Chim. Acta*, 360, 2007, 2139-2144.
73. **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.
74. 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.
75. 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.
76. **Aurel Pui**, Mihaela-Aurelia Vizitiu, Bis. (3-halogeno α ,5-diMethyl salicylaldehyde) ethylenediamine copper (II) complexes; synthesis, characterization and electronical influence, *Rev. de Chimie Bucuresti*, 58 (1), 2007, 25-27.
77. O. Pintilie, V. Sunel, L. Porfire, **A. Pui**, Synthesis and antimicrobial activity of some new (sulfonamidophenyl)-amide of N-(m-Nitrobenzoyl)-D, L-Methyionine, *Farmacia*, Vol. LV. 3, (2007), 345-352.
78. **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.
79. Daniela Dirtu, Lucia Odochian, **Aurel Pui**, Ionel Humelnicu, Thermal decomposition of ammonia. N₂H₄ – an intermediary reaction product, *Central European Journal of chemistry*, 4(4), 2006, 666–673.
80. **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.
81. **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.
82. **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.

83. **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.
84. 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,.
85. 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.
86. **A. Pui**, Al. Cecal, G. Drochioiu, Coordinative compounds of M(II) M=Mn, Fe, Co, Ni and Cu) with tetridentate diiminie pyrrole Schiff bases, *Rev. Roum. Chim.*, 48(6), 2003, 439-443.
87. **Aurel Pui**, Binding of Molecular Dioxigen to the Co(II) Complexes in Nonaqueous Solution, *Croatica Chimica Acta.*, 75 (1), 2002,165-173.
88. **Aurel Pui**, Ioan Berdan, Studii privind formarea compuşilor coordinativi ai Cu(II) cu baze Schiff, *Revista de Chimie*, 53, (1), 2002, 9-14.
89. **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.
90. D. Cozma, **A. Pui** și Al. Luca, Studii privind complecșii de Mn(III) și Mn(IV) cu liganzi aminosulfonici prin voltametrie ciclică, *Revista de Chimie*, 53, (8), (2002), 590-594.
91. **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
92. G. Drochioiu, **A. Pui**, Ramona Danac, Cristina Basu and Manuela Murariu, Improved spectrophotometric assy of cyamide with picric acid and resorcinol, *Rev. Roum. Chim.*, 48 (8), 2002, 601-606.
93. **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.
94. **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.
95. **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.
96. **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.
97. **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.
98. **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.
99. **Aurel Pui**, Ioan Berdan și Martine Peree-Fauvet, Implicațiile compuşilor coordinativi în procese de oxidări catalitice; influența catalizatorului asupra produșilor de reacție, *Revista de Chimie*, 51 (12), 2000, 971-974.
100. **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.
101. Al. Cecal, M. Palamaru, **A. Pui**, S. Chișcă, A. Iordan, Radiometric method for the study of the nucleation of crystals containing ¹³⁴Cs⁺ ions in gelatin, *J. Radioanalytical and Nuclear Chemistry*, 222, 1-2, (1997), 39-43.
102. Berdan, **A. Pui**, Complexes du Tl (III) avec les acides pyridine-carboxyliques, *Bull. Soc. Fr.*, 128, 1991, 842-845.