

## CURRICULUM VITAE

*Prof. univ. dr. Aurel PUI*

### INFORMAȚII PERSONALE



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

Tel. +40 232 201276

E-mail: aurel@uaic.ro

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 in domeniul Chimie, 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;  
Membru CNATDCU, 2016-2020; 2020-2024  
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, Școala 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;

DOMENII DE COMPETENȚĂ

Membru în Senatul Universității: din 2016 - prezent;  
Editor revista *Acta Chemica Iași*, 2012 - 2016.

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

Domenii abordate:

**Chimie coordinativă:** sinteza caracterizarea și reactivitatea unor compuși coordinativi;

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

**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 și responsabilități principale

- activități didactice;
- activități de cercetare;
- îndrumare teze de doctorat, lucrări de licență, dizertație și lucrări metodico-științifice pentru obținerea gradului didactic I în învățământul preuniversitar.

ACTIVITATEA ȘTIINȚIFICĂ

**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 1200**; în Web of Science, **Indice Hirsch = 21**.

**COORDONATOR ȘTIINȚIFIC:** Teze de doctorat (8), lucrări de licență (>30), lucrări de disertație (>12), lucrări metodico-științifice pentru obținerea gradului I în învățământul preuniversitar (>10).

**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.
	<b>DIRECTOR / RESPONSABIL GRANTURI DE CERCETARE / DEZVOLTARE:</b> cu finanțare internă: <b>3</b> ; cu finanțare externă: <b>4</b> .
	<b>COLABORATOR ÎN GRANTURI DE CERCETARE:</b> cu finanțare internă: <b>15</b> ; cu finanțare externă: <b>2</b> .
	<b>Membru comisii promovare</b> (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.
	<b>Membru comisii doctorat</b> la Universitatea "Alexandru Ioan Cuza" din Iași, Universitatea din București, Universitatea Tehnică "Gheorghe Asachi" din Iași.
SPECIALIZĂRI	<b>2003 - 2004</b> (10 luni, oct. - aug.), bursă de cercetare <b>postdoctorat</b> la Universitatea Paris XI (Sud) Laboratoire de Chimie Bioorganique et Bioinorganique;
	<b>1997 - 1998</b> (10 luni, oct. - aug.), bursă de cercetare <b>doctorat</b> la Universitatea Paris XI (Sud) Laboratoire de Chimie Bioorganique et Bioinorganique;
	<b>1999</b> doctorat în Chimie, Specialitatea Chimie anorganică și bioanorganică.
EDUCAȚIE	<b>1988</b> , iunie, examen de licență;
	<b>1984 – 1988:</b> la Facultatea de Tehnologie Chimică, Institutul Politehnic "Gh. Asachi" din Iași;
	<b>1983</b> iunie, examen de bacalaureat;
	<b>1981 - 1983:</b> Liceul "Andrei Muresanu" Bistrița;
	<b>1979 – 1981:</b> Liceul "Liviu Rebreanu" Bistrița;
	<b>1971 - 1979:</b> Școala primară și gimnazială; Școala Generala Maieru, jud. Bistrița-Nasaud.
CURSURI DE FORMARE/ PERFECTIONARE	<b>2021</b> , curs de „Formator”;
	<b>2019</b> , curs de „Inspector în domeniul securității și sănătății în muncă”.
STAGII DE PREGĂTIRE ȘI MOBILITĂȚI	<b>2024</b> , Université Sidi Mohamed Ben Abdellah, Fez, Marocco.
	<b>2023</b> , University of Poitiers, France.
	<b>2015</b> (01-30. 04), Staff mobility, Universitatea de Stat din Moldova, Proiect Ianus II;
	<b>2007-2017</b> (anual) mobilități Erasmus/Socrates la Universitatea Paris XI (Sud);
	- <b>2008 și 2009</b> , stagii de cercetare (de câte 3 săptămâni), Universitatea Paris-Sud (Paris XI) Laboratorul de Chimie Bioorganique et Bioinorganique, în cadrul unui proiect ECO-Net.

MEMBRU ÎN SOCIETĂȚI  
ȘTIINȚIFICE

LIMBI STRĂINE  
CUNOSCUTE

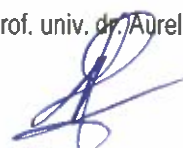
- **2007** iulie, o luna cercetator invitat, la Univ. Konstanz Germania;
- **2007** mai, stagiul de cercetare, Universitatea Paris-Sud (Paris XI) laboratorul de Chimie Bioorganique et Bioinorganique ;
- **2006** noiembrie, o lună cercetator invitat, la Univ. Konstanz Germania;
- **2002** iunie, 2 săptămâni stagiul de cercetare, Universitatea Paris-Sud (Paris XI) laboratorul de Chimie Bioorganique et Bioinorganique.

**Membru** al Societății Române de Chimie,

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

Iași

Prof. univ. dr. Aurel Pui



## List of scientific papers

### I. ISI papers

1. Radu Ioana, Borhan Adrian Iulian, Gherca Daniel, Popescu, Dana Georgeta, Borca, Camelia Nicoleta, Huthwelker Thomas, Bulai, Georgiana, Stoian George, Husanu Marius, **Pui Aurel**, Enhancement of SrTiO<sub>3</sub> photocatalytic efficiency by Al doping: Answers from the structure, morphology and electronic properties contributions, *Ceramics International*, 2024,
2. Albu A, Simeanu, C., Pop, I.M., **Pui A**, Tarcău, D., Cucu-Man, S.-M., Selected Characteristics of Multifloral Honeys from North-Eastern Romania, *Agriculture (Switzerland)*, 2024, 14(1).
3. Ciomaga Hatnean V.C.; **Pui A.**; Simonov A.; Ciomaga Hatnean M., Cristian, Crystal Growth of the R<sub>2</sub>SiO<sub>5</sub> Compounds (R = Dy, Ho, and Er) by the Floating Zone Method Using a Laser-Diode-Heated Furnace, *Crystals*, **2023**, 13 (12), 1687, DOI: 10.3390/cryst13121687
4. Borhan, AI ; Herea, DD ; Husanu, MA; Popescu, DG ; Borca, CN; Huthwelker, T ; Bulai, G ; Radu, I; Dirtu, AC; Dirtu, D; Mita, C; Stoian, G; Ababei, G; Lupu, N ; **Pui, A**; Gherca, D., Straightforward FeOOH nanografting of Al-based SrTiO<sub>3</sub> perovskite material as core-shell nanoflower-like heteronanostructure with enhanced solar light-driven photodegradation capability, *APPLIED SURFACE SCIENCE*, **2023**, 614, art. nb.156247, DOI:10.1016/j.apsusc.2022.156247.
5. Dănilă, R.-Ú., Dumitru, I., Ignat, M., **Pui, A.**, CoFe<sub>2</sub>O<sub>4</sub>@HaP as Magnetic Heterostructures for Sustainable Wastewater Treatment, *Materials*, **2023**, 16(7), 2594.
6. Asandulesa, M., Hamciuc, C., **Pui, A.**, Virlan C., Lisa G., Barzic, A.I., Oprisan, B., Cobalt Ferrite/Polyetherimide Composites as Thermally Stable Materials for Electromagnetic Interference Shielding Uses, *International Journal of Molecular Sciences*, **2023**, 24(2), 999.
7. Lakhdar, R., Ouled Amor, C., Ben Mosbah, M., **Pui A.**, Moussaoui Y., Ben Salem, R., Elghniji, K., An investigation of the role of samarium on the sol stability, particle growth, optical, and photocatalytic performance of TiO<sub>2</sub>, *Journal of Materials Science: Materials in Electronics*, **2023**, 34(12), 1043.
8. Dănilă, R., Amărandi, R.-M., Ignat, M., **Pui, A.**, Mesoporous MgFe<sub>2</sub>O<sub>4</sub>@HaP@APTES nanocomposite as scaffold for  $\alpha$ -glucosidase coupling, *Materials Today Communications*, **2023**, 36, 106427.
9. Pop, I.M., Simeanu, D., Cucu-Man, S.-M., Pui, A., Albu, A., Quality Profile of Several Monofloral Romanian Honeys, *Agriculture (Switzerland)*, 2023, 13(1), 75.
10. Radu, I., Turcan, I., Lukacs, A.V., Roman, T., Bulai, G.-A., Olariu, M.A., Dumitru, I., **Pui, A.**, Structural, dielectric and gas sensing properties of gadolinium (Gd<sup>3+</sup>) substituted zinc-manganese nanoferrites, **2022**, *Polyhedron*, 221, 115893.
11. Roman T., Gherca D., Borhan A.-I., Grigoras M., Stoian G., Lupu N., Turcan I., Cimpoesu N., Istrate B., Radu I., Danila R., **Pui A.**, Nanostructured quaternary Ni<sub>1-x</sub>Cu<sub>x</sub>Fe<sub>2-y</sub>Ce<sub>y</sub>O<sub>4</sub> complex system: Cerium content and copper substitution dependence of cation distribution and magnetic-electric properties in spinel ferrites, *Ceramics International*, **2021**, 47 (13), 17177-17187.
12. Corneliu Hamciuc, Mihai Asandulesa, Elena Hamciuc, Tiberiu Roman, Marius Andrei Olariu, **Aurel Pui**, Novel Polyimide/Copper-Nickel Ferrite Composites with Tunable Magnetic and Dielectric Properties, *Polymers*, **2021**, 13, 1646., <https://doi.org/10.3390/polym13101646>.
13. Buema G., Borhan A.I., Herea D.D., Stoian G., Chiriac H., Lupu N., Roman T., **Pui A.**, Harja M., Gherca D., Magnetic solid-phase extraction of cadmium ions by hybrid self-assembled multicore type nanobeads, *Polymers (Open Access)* 13 (2), **2021**, (no. 229), 1 – 16.
14. 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.

15. 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.
16. 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.
17. 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.
18. 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, *Journal of Photochemistry and Photobiology A: Chemistry*, **2020**, 394, 112497.
19. 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.
20. 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.
21. 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.
22. 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
23. Roman, T., **Pui, A.**, Lukacs, A.V., Cimpoesu, N., Lupescu, S., Borhan, A.I., Kordatos, K., Ntziouni, A., Postolache, P., Zaharia, M., Stanciu, S., Mitoşeriu, L., Structural changes of cerium doped copper ferrites during sintering process and magneto-electrical properties assessment, *Ceramics International*, 45 (14), **2019**, Pages 17243-17251
24. Palamarciuc, O., Milunović, M.N.M., Sirbu, A., Stratulat, E., **Pui, A.**, Gligorijevic, N., Radulovic, S., Kožíšek, 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.
25. 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.
26. 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.
27. 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 TiO<sub>2</sub> particles and thin films, *Physica B: Condensed Matter*, 560, 1 May **2019**, Pages 67-74.
28. Muresan, E.I., **Pui, A.**, Măluţan, 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
29. Elghniji, K., Virilan, C., Elaloui, E., **Pui, A.**, Synthesis, characterization of SiO<sub>2</sub> supported-industrial phosphoric acid catalyst for hydrolysis of NaBH<sub>4</sub> solution, Phosphorus, Sulfur and Silicon and the Related Elements, 193, Issue 12, 2 December, **2018**, Pages 806-821.
30. Murariu, M., Habasescu, L., Ciobanu, C.-I., Gradinaru, R.V., **Pui, A.**, Drochioiu, G., Mangalagiu, I., Interaction of Amyloid Aβ(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.
31. Amărăndi, 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.
  32. Ciocarlan, R.-G., Seftel, E.M., Mertens, M., **Pui, A.**, Mazaj, M., Novak Tusar, N., Cool, P., Novel magnetic nanocomposites containing quaternary ferrites systems  $\text{Co}_{0.5}\text{Zn}_{0.25}\text{Mg}_{0.25}\text{Fe}_2\text{O}_4$  (M = Ni, Cu, Mn, Mg) and  $\text{TiO}_2$ -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.
  33. C. Virilan, 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.
  34. C. Virilan, F. Tudorache, **A. Pui**, Increased sensibility of mixed ferrite humidity sensors by subsequent heat treatment, *International Journal of Applied Ceramic Technology*, *International Journal of Applied Ceramic Technology*, 14(6), pp. 1174-1182
  35. 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.
  36. Lückmann, M., Amărăndi, 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.
  37. Virilan, 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.
  38. Karlshøj, S., Amărăndi, 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.
  39. 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  $\text{BaTiO}_3$  powders on the functional properties of  $\text{BaTiO}_3/\text{poly}(\epsilon\text{-caprolactone})$  composites, *Materials Chemistry and Physics*, 182 (2016) 246e255.
  40. Ciocarlan, R.G., **Pui, A.**, Gherca, D., Virilan, C., Dobromir, M., Nica, V., Craus, M.L., Gostin, I.N., Caltun, O., Hempelman, R., Cool, P., Quaternary  $\text{M}_{0.25}\text{Cu}_{0.25}\text{Mg}_{0.5}\text{Fe}_2\text{O}_4$  (M = Ni, Zn, Co, Mn) ferrite oxides: Synthesis, characterization and magnetic properties, *Materials Research Bulletin*, 81, **2016**, p. 63-70.
  41. 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.
  42. 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.
  43. Postolachi, R., Danac, R., **Pui, A.**, New coordinative compounds with 4-(4'-pyridyl)pyridinium disubstituted monoylides, *Croatica Chemica Acta*, 88 (3), **2015**, pp. 207-211
  44. Cozma, Danut Gabriel; Gherca, Daniel; Mihalcea, Ionut; Nicoleta Cornei, **Aurel Pui**, Correlation Between Size of  $\text{CoFe}_2\text{O}_4$  Nanoparticles Determined from Experimental and Calculated Data by Different Mathematical Models, *CURRENT NANOSCIENCE*, 10 (6) **2014**, 869-876

45. 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.
46. Diana Mardare, Nicoleta Cornei, Dumitru Luca, Marius Dobromir, Ștefan A. Irimiciuc, Luciana Pungă, **Aurel Pui** and Cătălin Adomniței, Synthesis and hydrophilic properties of Mo doped TiO<sub>2</sub> thin films, *JOURNAL OF APPLIED PHYSICS*, **2014**, 115, 21, 213501\_1-5
47. 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.
48. 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.
49. 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.
50. Gherca, D., Cornei, N., Mentré, O., Kabbour, H., Daviero-Minaud, S., **Pui, A.** In situ surface treatment of nanocrystalline MFe<sub>2</sub>O<sub>4</sub> (M = Co, Mg, Mn, Ni) spinel ferrites using linseed oil, *Applied Surface Science*, **2013**, 287, 490-498.
51. 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.
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