CURRICULUM VITAE *Prof. univ. dr.* Aurel PUI

INFORMAŢII PERSONALE

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

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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

EXPERIENŢA PROFESIONALĂ

Experienta profesională / universitară

Profesor universitar din 2008;

Conferenţiar universitar, în perioada 2008-2002;

Lector universitar, în perioada 2002-1996;

Asistent universitar, în perioada 1996-1990.

Experienţă profesională / evaluare şi expertiză

Evaluator ARACIS (Agenţia Română de Asigurare a Calităţii în Învăţământul Superior), din 2009;
Membru CNATDCU, 2016-2020; 2020-2024.
Evaluator AQAS (Agentur für Qualitäatssicherung durch Akkreditierung von Studiengängen), 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, Şcoala Nr. 2 Sighişoarea, judeţul Mureş; 1988 – 1990.

Experienţă administrativă

Decan, Facultatea de Chimie, din 2016 -2024;

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 Facultăţii de Chimie: 2000-2003; 2012 – prezent;

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

DOMENII DE COMPETENŢĂ

Cadru didactic - Profesor (chimie) la Universitatea „Alexandru Ioan Cuza", Facultatea de Chimie, din 1990 pana in prezent.
Domenii abordate:
Chimie coordinativă: sinteza caracterizarea şi reactivitatea unor compuşi coordinativi;
Chimia materialelor: sinteza şi caracterizarea oxizilor micşti cu structură de tip spinel;
Chimie bioanorganică: sinteza şi caracterizarea unor transportori sintetici de oxigen; studiul fixării oxigenului molecular şi studii de activitate catalitică;
Chimie anorganică: sinteza şi caracterizarea unor compuşi anorganici;
Analiză structurală prin spectroscopie IR pe plante, ciuperci, soluri, polimeri, obiecte de patrimoniu, compuşi nanostructuraţi etc.

Activităţi şi responsabilităţi principale

- activităţi didactice;
- activităţi de cercetare;
- îndrumare teze de doctorat, lucrări de licenţă, dizertaţie şi lucrari metodico-ştiinţifice pentru obţinerea gradului didactic I în învăţământul preuniversitar.

ACTIVITATEA ŞTIINŢIFICĂ

CĂRŢI / ARTICOLE PUBLICATE:

- **Cărţi**, cursuri universitare şi manuale de lucrări practice: **10**
- **articole ştiinţifice** publicate în reviste de specialitate: **144,** din care: **78** in reviste **ISI** din **străinătate, 38** in reviste **ISI** din **ţară,** 28 in reviste non ISI din ţară; poziţia 23 pe UAIC din 2235 autori (https://www.scopus.com/results/authorNamesList.uri....)
- **participări** la manifestări ştiinţifice peste 50.

Citări lucrări indexate/recenzate în baze de date internaţionale: **peste 1300;** în Web of Science, **Indice Hirsch = 22 (Web of Science).**

COORDONATOR ŞTIINŢIFIC: Teze de doctorat (10), lucrări de licenţă (>50), lucrări de disertaţie (>15), lucrări metodico-ştiinţifice pentru obţinerea gradului I în învăţământul preuniversitar (>10).

REFERENT ŞTIINŢIFIC la numeroase reviste internationale (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 finanţare internă: **3**; cu finanţare externă: **4.**

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

Membru comisii promovare (pentru profesor/conferenţiar) la Universitatea "Alexandru Ioan Cuza" din Iaşi, Universitatea din Bucureşti, Universitatea "Babeş Bolyai" din Cluj Napoca, Universitatea "Dunărea de Jos" din Galaţi; Universitatea Tehnică "Gheorghe Asachi" din Iaşi.

Membru comisii doctorat la Universitatea "Alexandru Ioan Cuza" din Iaşi, Universitatea din Bucureşti, Universitatea Tehnică "Gheorghe Asachi" din Iaşi.

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 si bioanorganică.

EDUCAŢIE

1988, iunie, examen de licenta;

1984 – 1988: la Facultatea de Tehnologie Chimică, Institutul Politehnic "Gh. Asachi" din Iasi;

1983 iunie, examen de bacalaureat;

1981 - 1983: Liceul "Andrei Muresanu" Bistriţa;

1979 – 1981: Liceul "Liviu Rebreanu" Bistriţa;

1971 - 1979: Şcoala primară şi gimnazială; Scoala Generala Maieru, jud. Bistriţa-Nasaud.

CURSURI DE FORMARE/ PERFECȚIONARE

2021, curs de **„**Formator";

2019, curs de **„**Inspector în domeniul securității și sănătății în muncă".

STAGII DE PREGĂTIRE ŞI MOBILITĂŢI

2024, Université Sidi Mohamed Ben Abdellah, Fez, Marocco.

2023, University of Poitiers, France.

2015 (01-30. 04), Staff mobility, Universitatea de Stat din Moldova, Proiect Ianus II;

2007-2017 (anual) mobilităţi Erasmus/Socrates la Universitatea Paris XI (Sud);

- **2008** şi **2009**, stagii de cercetare (de câte 3 săptămâni), Universitatea Paris-Sud (Paris XI) Laboratorul de Chimie Bioorganique et Bioinorganique, in cadrul unui proiect ECO-Net.

- **2007** iulie, o luna cercetator invitat, la Univ. Konstanz Germania;
- **2007** mai, stagiu 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 stagiu de cercetare, Universitatea Paris-Sud (Paris XI) laboratorul de Chimie Bioorganique et Bioinorganique.

MEMBRU ÎN SOCIETĂŢI ŞTIINŢIFICE

Membru al Societăţii Române de Chimie,

LIMBI STRĂINE CUNOSCUTE

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

Iaşi

Prof. univ. dr. Aurel Pui

Lista realizarilor din activitatea stiintifica, actualizata pana la 1 octombrie 2024; Lista ar rebui sa cuprinda cel putin: Lista publicațiilor, Publicaţii în jurnale indexate WoS, Cărţi/monografii, Participări la conferinţe / wokshop-uri simpozioane, naţionale şi internaţionale, Proiecte de cercetare coordinate, Recunoastere stiintifica (H dupa WoS, Scopus, Google Scholar; membru comisii, membru board edituri stiintifice, expert evaluator etc).

Lista publicațiilor în jurnale indexate WoS

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 $SrTiO_3$ photocatalytic efficiency by Al doping: Answers from the structure, morphology and electronic properties contributions, Ceramics International, 2024, 50 (11), Page 20664-20675, Part B, DOI10.1016/j.ceramint.2024.03.188
2. Muresan, EI; Pui, A; Cernatescu, C.; Cimpoesu, R.; Horhogea, CE.; Istrate, B.; Rimbu, CM., Green Synthesis of Nanoparticles Containing Zinc Complexes and Their Incorporation in Topical Creams with Antimicrobial Properties, Applied Sciences, 2024, 14(11), 4612; https://doi.org/10.3390/app14114612.
3. 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).
4. Ciomaga Hatnean V.C.; **Pui A**.; Simonov A.; Ciomaga Hatnean M., Cristian, Crystal Growth of the R2SiO5 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
5. 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 SrTiO3 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.
6. Dănilă, R.-Ú., Dumitru, I., Ignat, M., **Pui, A.**, $CoFe_2O_4$@HaP as Magnetic Heterostructures for Sustainable Wastewater Treatment, *Materials*, **2023**, 16(7), 2594.
7. 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.
8. 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_2, *Journal of Materials Science: Materials in Electronics*, **2023**, 34(12), 1043.
9. Dănilă, R., Amărandi, R.-M., Ignat, M., **Pui, A.**, Mesoporous $MgFe_2O_4$@HaP@APTES nanocomposite as scaffold for α-glucosidase coupling, *Materials Today Communications*, **2023**, 36, 106427.
10. 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.
11. 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 (Gd3+) substituted zinc-manganese nanoferrites, **2022**, *Polyhedron*, 221, 115893.

12. 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 Ni1-xCuxFe2-yCeyO4 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. Elghniji K., Ouled Amor C., Virlan 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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 Co0.5Zn0.25M0.25Fe2O4 (M = Ni, Cu, Mn, Mg*), Journal of Alloys and Compounds*, 816, **2020**, 152674.
23. C. Virlan, F Tudorache, **A Pui**, Tertiary NiCuZn ferrites for improved humidity sensors: a systematic study, *Arabian Journal of Chemistry*, 13(1), **2020**, pp. 2066-2075
24. 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
25. Palamarciuc, O., Milunović, M.N.M., Sîrbu, 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.
26. 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.

27. Roman, T., Asavei, R.-L., Karkalos, N.E., Roman, C., Virlan, 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.
28. Amor, C.O., Kais elghnijia, Virlan, C., **Pui, A.,** Elaloui, E., Effect of dysprosium ion (Dy 3+) doping on morphological, crystal growth and optical properties of TiO 2 particles and thin films, *Physica B: Condensed Matter*, 560, 1 May **2019**, Pages 67-74.
29. 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
30. Elghniji, K., Virlan, C., Elaloui, E., **Pui, A**., Synthesis, characterization of SiO 2 supported-industrial phosphoric acid catalyst for hydrolysis of NaBH 4 solution, Phosphorus, Sulfur and Silicon and the Related Elements, 193, Issue 12, 2 December, **2018**, Pages 806-821.
31. 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*.*
32. Amărandi, R.-M., Lückmann, M., Melynis, 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.
33. Ciocarlan, R.-G., Seftel, E.M., Mertens, M., **Pui, A**., Mazaj, M., Novak Tusar, N., Cool, P., Novel magnetic nanocomposites containing quaternary ferrites systems $Co_{0.5}Zn_{0.25}M_{0.25}Fe_2O_4$ (M = Ni, Cu, Mn, Mg) and 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.
34. 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.
35. 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
36. 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.
37. Lückmann, M., Amarandi, 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.
38. 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.
39. Karlshøj, S., Amarandi, 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.
40. 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.
41. 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 M0.25Cu0.25Mg0.5Fe2O4 (M = Ni, Zn, Co, Mn)

ferrite oxides: Synthesis, characterization and magnetic properties, *Materials Research Bulletin*, 81, **2016**, p. 63-70.

42. 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.
43. 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.
44. 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
45. 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
46. 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.
47. Diana Mardare, Nicoleta Cornei, Dumitru Luca, Marius Dobromir, Ştefan A. Irimiciuc, Luciana Pungă, **Aurel Pui** and Cătălin Adomniţei, Synthesis and hydrophilic properties of Mo doped TiO_2 thin films, *JOURNAL OF APPLIED ,PHYSICS*, **2014**, 115, 21, 213501_1-5
48. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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
54. 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
55. 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.
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Congrese / conferinţe:

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