

CURRICULUM VITAE Name Born Nationality Present position Contact informations	IORDAN Alexandra Raluca August, 18th, 1957, Ploiești, Romania Romanian Professor (Group of Inorganic Chemistry, Faculty of Chemistry, "Alexandru Ioan Cuza" University of Iași), Ph. D. adviser in the field of "Environmental Engineering" from 2009 "Alexandru Ioan Cuza" University of Iași Department of Chemistry, Faculty of Chemistry Bulevardul Carol I nr. 11, 700506-Iași, Romania Phone / Fax : +40232201341/+40232201313 E-mail : alexandra.iordan@uaic.ro 
EDUCATION	31.01.1994 Ph.D. degree in Applied Chemistry, University of Poitiers (France) - Faculty of Sciences, Laboratory of Catalysis in Organic Chemistry . Thesis: "Influence of potassium on the behavior at high temperature of alumina, silica and silica-alumina supports and the rhodium/alumina catalyst. Impregnation and characterization by infrared spectroscopy in-situ" 01.10.1990-30.09.1993 Ph.D. studies at University of Poitiers, France - Faculty of Sciences, Laboratory of Catalysis in Organic Chemistry 1980-1981, „Physico-Chemistry of polymers" Master at "Gheorghe Asachi" Technical University of Iași, Romania, Faculty of Industrial Chemistry, 1976-1980 Faculty of Industrial Chemistry, Specialization: Chemistry, "Gheorghe Asachi" Technical University of Iași, Romania 1972-1976, High school "Ion Luca Caragiale" Ploiesti, Romania - Bachelor's degree
PROFESSIONAL EXPERIENCE	➤ 01.10.2001 – present: Professor at the Department of Chemistry, Faculty of Chemical, Group of Inorganic Chemistry, "Alexandru Ioan Cuza" University of Iași, Romania ➤ 01.01.2007-31.07.2007: Invited researcher at University of Poitiers, France - Faculty of Sciences, Laboratory of Catalysis in Organic Chemistry ➤ 16.02.1998-30.09.2001: Associate Professor at Faculty of Chemical, "Alexandru Ioan Cuza" University of Iași, Romania ➤ 01.10.1994-15.02.1998: Lecturer Professor at Faculty of Chemical, "Alexandru Ioan Cuza" University of Iași, Romania ➤ 15.09.1988-30.09.1994: Assistant Professor at Faculty of Chemical, "Alexandru Ioan Cuza" University of Iași, Romania ➤ 01.04.1986-14.09.1988: Chemist at Chemical-Pharmaceutical Research Institute/Research Center for Antibiotics, Iași ➤ 07.09.1981-31.03.1986: Chemist at Institute for Research in Chemistry, Research Center Brazi
COMPETENCES	➤ Inorganic Chemistry: metals, non-metals, coordination compounds; ➤ Heterogeneous catalysis ➤ Protection of the environment; ➤ Bioinorganic Chemistry.
RESEARCH AREAS	➤ Polymetallic oxides: synthesis, characterization and applications in heterogeneous catalysis ; ➤ Polymetallic oxides in environment protection; ➤ Synthesis of inorganic nanomaterials by Green chemistry ➤ Polymetallic oxides potential depollution catalysts ➤ Inorganic-inorganic and inorganic-organic composite for environment protection and drug delivery;
SCIENTIFIC ACTIVITY	➤ PhD Supervisor since 2009 - Environmental Engineering ➤ 2007 (7 months,)-invited researcher, Faculty of Sciences, University of Poitiers, France ➤ SCIENTIFIC PORTOFOLIO - HIRSCH Factor in ISI WEB OF SCIENCE = 12 (http://apps.webofknowledge.com/CitationReport.do?product=UA&search_mode=CitationReport&SID=1DHVypiygKE8Ik7JoKA&page=1&cr_pqid=9&viewType=summary) - HIRSCH Factor in Google Scholar = 13 (https://scholar.google.ro/citations?hl=ro&user=cjUDh5YAAAAJ) - 6 books - 56 papers published in ISI ranked journals - 2 paper in peer-reviewed journal included in databases - 21 papers in Romanian journals - over 80 public presentations at national and international symposia - 22 presentations at international symposia - 334 citations of published papers - 41 national grants (8 as project director)

SELECTED PUBLICATIONS

1. **Alexandra Raluca IORDAN**, M. I. Zaki, C. Kappenstein, Interfacial chemistry in the preparation of catalytic potassium-modified Aluminas, *J. Chem. Soc., Faraday Trans.*, 1993, 89 (14), 2527. (IF = 1,032)
2. M. Craus, M. Palamaru, Al. Cecal, I. Rusu, **Alexandra Raluca IORDAN**, Structural charges in the perovskitic compounds series $\text{Sr}_2\text{Mg}_{1-x}\text{Mn}_x\text{MoO}_6$, *J. Phys. IV France*, 1997, 7, C1-375-376. (IF = 0,291)
3. Al. Cecal, M. Palamaru, A. PUI, S. Chișcă, **Alexandra Raluca IORDAN**, Radiometric method for the study of the nucleation of crystals containing $^{134}\text{Cs}^+$ ions in gelatin, *J. Radioanal. Nucl. Chem.*, 1997, **222**, 39-43. (IF = 0.499)
4. **Alexandra Raluca IORDAN**, C. Kappenstein, E. Colnay, M. I. Zaki, Surface contribution to the interfacial chemistry of potassium-modified oxide catalysts. Silica-alumina versus silica and alumina, *J. Chem. Soc., Faraday Trans.*, 1998, **94**(8), 1149-1156. (IF = 1,032)
5. Al. Cecal, S. Chișcă, M. Palamaru, **Alexandra Raluca IORDAN**, Radiokinetic study on the nucleation in agar and gelatin of some crystals containing $^{55+59}\text{Fe}^{3+}$ ions, *J. Radioanal. Nucl. Chem.*, 1998, **238**, 203-206 (IF = 0,499)
6. M. PALAMARU, M. CRAUS, **Alexandra Raluca IORDAN** Al. CECAL, F. POPA, The synthesis and characterisation of the $\text{Li}_x\text{Cu}_{1-2x}\text{Fe}_2\text{xO}_4$ system compounds, *Solid State Sciences*, 1999, 1(1), 63-69. (IF = 1,698)
7. **Alexandra Raluca IORDAN**, M. I. Zaki, C. Kappenstein, Claudine Geron, XPS and in situ IR spectroscopic studies of $\text{CO/Rh/Al}_2\text{O}_3$ at high temperature probing the impact of the potassium functionalization of support, *Phys. Chem. Chem. Phys.*, 2003, 5, 1708-1715. (IF = 3,343)
8. **Alexandra Raluca IORDAN**, M. I. Zaki, C. Kappenstein, Formation of carboxy species at $\text{CO/Al}_2\text{O}_3$ interfaces. Impacts of surface hydroxylation, potassium alkalization and hydrogenation as assessed by *in situ* FTIR spectroscopy, *Phys. Chem. Chem. Phys.*, 2004, **6** (9), 2502 – 2512. (IF = 3,343)
9. K. Popa, M. N. Palamaru, **Alexandra Raluca IORDAN**, D. Humelnicu, G. Drochioiu, Al. Cecal, Laboratory analyses of $^{60}\text{Co}^{2+}$, $^{65}\text{Zn}^{2+}$ and $^{55+59}\text{Fe}^{3+}$ radiocations uptake by Lemna minor, 2006, *Isotopes in Environmental and Health Studies*, (1) 87-95. (IF = 0,585)
10. B. Fournaud, **Alexandra Raluca IORDAN**, S. Rossignol, J.-M. Tatibouet, S. Thollon, Processing and characterization of spherical alumina pellets coated with BaTiO_3 and $\text{Li}_{0.10}\text{Ti}_{0.02}\text{Ni}_{0.88}\text{O}$ dielectric materials, 2008, *European Journal of Inorganic Chemistry*, (33), 5263-5273. (IF = 2,597)
11. **Alexandra Raluca IORDAN**, M. Airimioaei, M.N. Palamaru, C. Galassi, A.V. Sandu, C.E. Ciomaga, F. Prihor, L. Mitoseriu, A. Ianculescu, In situ preparation of $\text{CoFe}_2\text{O}_4\text{-Pb(ZrTi)O}_3$ multiferroic composites by gel-combustion technique, 2009, *Journal of the European Ceramic Society*, 29, 2807–2813 (IF = 1,562)
12. Ciomaga, C.E., Galassi, C., Prihor, F., Dumitru, I., Mitoseriu, L., **Alexandra Raluca IORDAN**, Airimioaei, M., Palamaru, M.N., Preparation and properties of the $\text{CoFe}_2\text{O}_4\text{-Nb-Pb(Zr,Ti)O}_3$ multiferroic composites prepared in situ by gel-combustion method, 2009, *Journal of Alloys and Compounds*, 485 (1-2), 372-378 (IF = 1,455)
13. Airimioaei, M., Ciomaga, C.E., Apostolescu, N., Leontie, L., **Alexandra Raluca IORDAN**, Mitoseriu, L., Palamaru, M.N. Synthesis and functional properties of the $\text{Ni}_{1-x}\text{Mn}_x\text{Fe}_2\text{O}_4$ ferrites, 2011, *Journal of Alloys and Compounds*, 509(31), 8065-8072 (IF = 2,289)
14. Slatineanu, T., Diana, E., Nica, V., Oancea, V., Caltun, O.F., **Alexandra Raluca IORDAN**, Palamaru, M.N. The influence of the chelating/combustion agents on the structure and magnetic properties of zinc ferrite, 2012, *Central European Journal of Chemistry*, 10(6), 1799-1807 (IF = 1,167)
15. Samoila, P.; Slatineanu, T.; Postolache, P.; **Alexandra Raluca IORDAN**; Palamaru, M. N., The effect of chelating/combustion agent on catalytic activity and magnetic properties of Dy doped Ni-Zn ferrite, 2012, *Materials Chemistry and Physics*, 136(1), 241-246 (IF = 2,072)
16. Ciomaga, C.E., Airimioaei, M., Nica, V., Hrib, L.M., Caltun, O.F., **Alexandra Raluca IORDAN**, Galassi, C., Mitoseriu, L., Palamaru, M.N. Preparation and magnetoelectric properties of $\text{NiFe}_2\text{O}_4\text{-PZT}$ composites obtained in-situ by gel-combustion method, 2012, *Journal of the European Ceramic Society*, 32(12), 3325-3337 (IF = 2,36)
17. Dumitrescu, A.M., Samoila, P.M., Nica, V., **Alexandra Raluca IORDAN**, Palamaru, M.N. Study of catalytic effect of oxidic compounds of NiFe_2O_4 type in processes of chemical degradation, 2012, *Revue Roumaine de Chimie*, 57(9-10), pp. 843-848 (IF = 0,418)
18. Druc, A.C., Borhan, A.I., Nedelcu, G.G., Leontie, L., **Alexandra Raluca IORDAN**, Palamaru, M.N. Structure-dielectric properties relationships in copper-substituted magnesium ferrites, 2013, *Materials Research Bulletin*, 48(11), 4647-4654 (IF = 1,913)
19. Borhan, A.I., Slatineanu, T., **Alexandra Raluca IORDAN**, Palamaru, M.N., Influence of chromium ion substitution on the structure and properties of zinc ferrite synthesized by the sol-gel auto-combustion method, 2013, *Polyhedron*, 56, 82-89 (IF = 1,813)
20. Feraru, S., Samoila, P., Nica, V., **Alexandra Raluca IORDAN**, Palamaru, M.N., Influence of the B-site cation nature on dielectric properties of Ca_2XBiO_6 (X = Dy, Fe, Al) double perovskite, 2013, *Chemical Papers*, 67(10), 1311-1316 (IF = 0,879)
21. Tamara Slatineanu, **Alexandra Raluca IORDAN**, Victor Oancea, Mircea Nicolae Palamaru, Ioan Dumitru, Cristin Petrica Constantin, Ovidiu Florin Caltun, Magnetic and dielectric properties of Co-Zn ferrite, 2013, *Materials Science and Engineering B*, 178, 1040–1047 (IF = 1,846)
22. Dumitrescu, A.M., Samoila, P.M., Nica, V., Doroftei, F., **Alexandra Raluca IORDAN**, Palamaru, M.N., Study of the chelating/fuel agents influence on NiFe_2O_4 samples with potential catalytic properties, 2013, *Powder Technology*, 243, 9-17 (IF = 2.024)
23. Borhan, A.I., **Alexandra Raluca IORDAN**, Palamaru, M.N. Correlation between structural, magnetic and electrical properties of nanocrystalline Al^{3+} substituted zinc ferrite, 2013, *Materials Research Bulletin*, 48(7), 2549-2556 (IF = 1,913)
24. Druc, A.C., Dumitrescu, A.M., Borhan, A.I., Nica, V., **Alexandra Raluca IORDAN**, Palamaru, M.N., Optimization of synthesis conditions and the study of magnetic and dielectric properties for MgFe_2O_4 ferrite, 2013, *Central European Journal of Chemistry*, 11(8), 1330-1342 (IF = 1,167)
25. Feraru, S., Samoila, P., Borhan, A.I., Ignat, M., **Alexandra Raluca IORDAN**, Palamaru, M.N. Synthesis, characterization of double perovskite Ca_2MSbO_6 (M = Dy, Fe, Cr, Al) materials via sol-gel auto-combustion and their catalytic properties, 2013, *Materials Characterization*, 84, 112-119 (IF = 1,880)
26. Tamara Slatineanu, Anca Mihaela Dumitrescu, Petrisor Samoila, Alexandra Nistor, Maria Cazacu, Valentin Nica, **Alexandra Raluca IORDAN**, Mircea Nicolae Palamaru, Synthesis, characterization and catalytic behavior of Mg-Zn ferrites supported on alumina,

2013, *Environmental Engineering and Management Journal*, Accepted: July (IF = 1,117)

27. M.Airimioaei, M-N Palamaru, **Alexandra Raluca IORDAN**, P.Berthet, C.Decorse, L.Curecheriu, L.Mitoseriu, Structural Investigation and Functional Properties of $\text{Mg}_x\text{Ni}_{1-x}\text{Fe}_2\text{O}_4$ Ferrites, 2014, *Journal of the American Ceramic Society*, 97, 519 (IF = 2,428)
28. A.I. Borhan, P. Samoila, Vasile Hulea, **Alexandra Raluca IORDAN**, M.N. Palamaru, Photocatalytic activity of spinel $\text{ZnFe}_2\text{-xCr}_x\text{O}_4$ nanoparticles on removal Orange I azo dye from aqueous solution, 2014, *Journal of the Taiwan Institute of Chemical Engineers*, 45, 1655 (IF = 2,637)
29. A.I. Borhan, P. Samoila, Vasile Hulea, **Alexandra Raluca IORDAN**, M.N. Palamaru, Effect of Al^{3+} substituted zinc ferrite on photocatalytic degradation of Orange I azo dye, 2014, *Journal of Photochemistry and Photobiology A: Chemistry*, 279, 17 (IF = 2,475)
30. Simona Feraru, Adrian I. Borhan, Petrisor Samoila, Gigel G. Nedelcu, **Alexandra Raluca IORDAN**, Mircea N. Palamaru, Influence of a-site cation on structure and dielectric properties in A_2DyBiO_6 (A = Mg, Ca, Sr, Ba) double perovskites, 2014, *Australian Journal of Chemistry*, 67, 250 (IF = 1,644)
31. A.I. Borhan, Vasile Hulea, **Alexandra Raluca IORDAN**, M.N. Palamaru, Cr^{3+} and Al^{3+} co-substituted zinc ferrite: Structural analysis, magnetic and electrical properties, 2014, *Polyhedron*, 70, 110 (IF = 2,068)
32. A..Druc, A.I.Borhan, A.Diaconu, **Alexandra Raluca IORDAN**, G.G.Nedelcu, L.Leontie, M.N.Palamaru, How cobalt ions substitution changes the structure and dielectric properties of magnesium ferrite?, 2014, *Ceramics International*, 40, 13573 (IF = 2,086)
33. A.M. Dumitrescu, T. Slatineanu, A. Poiata, **Alexandra Raluca IORDAN**, C. Mihailescu, M.N. Palamaru, Advanced composite materials based on hydrogels and ferrites for potential biomedical applications, 2014, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 455, 185 (IF = 2,354)
34. A.M. Dumitrescu, A.I. Borhan, **Alexandra Raluca IORDAN**, I. Dumitru, M.N. Palamaru, Influence of chelating/fuel agents on the structural features, magnetic and dielectric properties of Ni ferrite, 2014, *Powder Technology*, 268, 95 (IF = 2,269)
35. Mocanu, Z. V.; Airimioaei, M.; Ciomaga, C. E.; Curecheriu, L.; Tudorache, F.; Tascu, S.; **Alexandra Raluca IORDAN**; Palamaru, N. M.; Mitoseriu, L, Investigation of the functional properties of $\text{Mg}_x\text{Ni}_{1-x}\text{Fe}_2\text{O}_4$ ceramics, *Journal of Material Science*, 2014, 29, 3276 (IF = 2,371)
36. Borhan, A. I.; Samoila, P.; Gherca, D.; **Alexandra Raluca IORDAN**; Palamaru, M. N., Is it possible the substitution of Cr cations from spinel-type oxides with bulky rare-earth cations by sol-gel auto-combustion method?, *Journal of Alloys and Compounds*, 2015, 651, 200 (IF = 2, 999)
37. Feraru, S.; Borhan, A. I.; Samoila, P.; Mita, C.; Cucu-Man, S.; **Alexandra Raluca IORDAN**; Palamaru, M. N., Development of visible-light-driven $\text{Ca}_2\text{Fe}_{1-x}\text{Sm}_x\text{BiO}_6$ double perovskites for decomposition of Rhodamine 6G dye, *Journal of Photochemistry and Photobiology A: Chemistry*, 2015, 307, 1 (IF = 2.495)
38. Dumitrescu, A. M.; Lisa, G.; **Alexandra Raluca IORDAN**; Tudorache, F.; Petrila, I.; Borhan, A. I.; Palamaru, M. N.; Mihailescu, C.; Leontie, L.; Munteanu, C., Ni ferrite highly organized as humidity sensors, *Materials Chemistry and Physics*, 2015, 156, 170 (IF=2.259)
39. Cojocaru, S.; Dumitrescu, A. M.; Breaban, I. G.; Domocos, A-A.; **Alexandra Raluca IORDAN**; Melniciuc-Puica, N.; Palamaru, M. N., Exploiting the natural potential of romanian kaolin clay. Adsorption capacity improvement through heat treatment, *Optoelectronic and Advanced Materials - Rapid communication*, 2015, 9, 1530 (IF = 0.394)
40. Tudorache, Florin; Petrila, Iulian; Slatineanu, Tamara; Dumitrescu, Anca Mihaela; **Alexandra Raluca IORDAN**; Dobromir, Marius; Palamaru, Mircea Nicolae, Humidity sensor characteristics and electrical properties of Ni-Zn-Dy ferrite material prepared using different chelating-fuel agents, *Journal of Material Science - Materials in Electronics*, 2016, 27, 272 (IF = 1.569)

EXPERTISE

Member of the Commission "Environmental engineering" of the National Council For the Recognition of Academic Degrees, Diplomas and Certificates (CNATDCU) – Romanian Ministry of Education, Research and Innovation - since 2012. The CNATDCU criteria of minimal standards for obtaining the ability for Ph.D. supervisor (Annex 18 - Environmental Engineering for 6560/2012 Order modified by 4204/2013 Order) are fully exceeded as:

- Teaching and training (A1) has to be **210**
Alexandra Raluca IORDAN : 397.80
- Research (A2) has to be : **500**
Alexandra Raluca IORDAN : 3336.24
- Recognition and activity impact (A3) has to be : 90
Alexandra Raluca IORDAN : 990

Member of Habilitation Commission CNATDCU

- Alexandru Ioan Cuza" University " of Iași
- "Gheorghe Asachi" Technical University of Iasi
- "Vasile Alecsandri" University of Bacău

PhD Examiners:

- Alexandru Ioan Cuza" University " of Iași
- "Gheorghe Asachi" Technical University of Iasi
- "Grigore T. Popa" University of Medicine and Pharmacy of Iasi
- University of Poitiers, France
- Paris-Sud University, France
- Institut National Polytechnique de Toulouse, France

Scientific Advisor for chemistry, Dicționar explicativ ilustrat al limbii române, Editura ARC (Chișinău, Moldavia) și Ed. GUNIVAS (Chișinău, Moldavia), 2007, ISBN 978-9975-61-155-8 (ARC), ISBN 978-9975-908-04-7 (GUNIVAS)

Journals Reviewer

- Powder Technology (5-Year Impact Factor: 2,437)

	- Materials Letters (5-Year Impact Factor: 2,466) - International Journal of Hydrogen Energy (5-Year Impact Factor: 3,659) - Materials and Design (5-Year Impact Factor: 3,626) - Ceramics International (5-Year Impact Factor: 2,540) - Applied Catalysis A (5-Year Impact Factor: 4,402) - Materials Science and Engineering: B (5-Year Impact Factor: 2,142) - Surface Science (including Surface Science Letters) (5-Year Impact Factor: 1,835) - Materials Chemistry and Physics (5-Year Impact Factor: 2,503) - Journal of Taibah University for Science					
SOCIAL-PROFESSIONAL STRUCTURES COORDINATOR	- Socrates Coordinator at Faculty of Chemistry (1996 - 2004 and since 2008) ; - Executive coordinator RUFAC - License in chemistry (in French) (since 2006) ;					
PROFESSIONAL MEMBERSHIPS	Member of Romanian Society of Chemistry					
FOREIGN LANGUAGES (Fr= French ; En= English)	UNDERSTANDING		SPEAKING		Writing	
	Listening	Reading	Spoken interaction	Spoken production		
Fr	C1	C1	C1	C1	C1	
En	B2	B2	B2	B2	B2	

April 2016

Alexandra Raluca IORDAN