


<p><b>CURRICULUM VITAE</b></p> <p>Name Born Nationality Present position Contact informations</p>	<p><b>IORDAN Alexandra Raluca</b> August, 18th, 1957, Ploiești, Romania Romanian</p> <p>➤ <b>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</b></p> <p>➤ <b>"Alexandru Ioan Cuza" University of Iași, Department of Chemistry, Faculty of Chemistry</b></p> <p>➤ <b>Head of Geosciences doctoral school</b> Bulevardul Carol I nr. 11, 700506-Iași, Romania Phone / Fax : +40232201341/+40232201313 E-mail : alexandra.iordan@uaic.ro</p> 
<p><b>EDUCATION</b></p>	<p>31.01.1994 Ph.D. degree in Applied Chemistry, University of Poitiers (France) - Faculty of Sciences, Laboratory of Catalysis in Organic Chemistry . Thesis: <b>"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"</b></p> <p>01.10.1990-30.09.1993 Ph.D. studies at University of Poitiers, France - Faculty of Sciences, Laboratory of Catalysis in Organic Chemistry</p> <p>1980-1981, „<b>Physico-Chemistry of polymers</b>“Master at “Gheorghe Asachi” Technical University of Iași, Romania, Faculty of Industrial Chemistry,</p> <p>1976-1980 Faculty of Industrial Chemistry, Specialization: <b>Chemistry</b>, “Gheorghe Asachi” Technical University of Iași, Romania</p> <p>1972-1976, High school "Ion Luca Caragiale" Ploiesti, Romania - <b>Bachelor's degree</b></p>
<p><b>PROFESSIONAL EXPERIENCE</b></p>	<p>➤ 01.10.2001 – present: Professor at the Department of Chemistry, Faculty of Chemical, Group of Inorganic Chemistry, "Alexandru Ioan Cuza" University of Iași, Romania</p> <p>➤ 01.01.2007-31.07.2007: Invited researcher at University of Poitiers, France - Faculty of Sciences, Laboratory of Catalysis in Organic Chemistry</p> <p>➤ 16.02.1998-30.09.2001: Associate Professor at Faculty of Chemical, "Alexandru Ioan Cuza" University of Iași, Romania</p> <p>➤ 01.10.1994-15.02.1998: Lecturer Professor at Faculty of Chemical, "Alexandru Ioan Cuza" University of Iași, Romania</p> <p>➤ 15.09.1988-30.09.1994: Assistant Professor at Faculty of Chemical, "Alexandru Ioan Cuza" University of Iași, Romania</p> <p>➤ 01.04.1986-14.09.1988: Chemist at Chemical-Pharmaceutical Research Institute/Research Center for Antibiotics, Iași</p> <p>➤ 07.09.1981-31.03.1986: Chemist at Institute for Research in Chemistry, Research Center Brazi</p>
<p><b>COMPETENCES</b></p>	<p>➤ Inorganic Chemistry: metals, non-metals, coordination compounds;</p> <p>➤ Heterogeneous catalysis</p> <p>➤ Protection of the environment;</p> <p>➤ Bioinorganic Chemistry.</p>
<p><b>RESEARCH AREAS</b></p>	<p>➤ Polymetallic oxides: synthesis, characterization and applications in heterogeneous catalysis ;</p> <p>➤ Polymetallic oxides in environment protection;</p> <p>➤ Synthesis of inorganic nanomaterials by Green chemistry</p> <p>➤ Polymetallic oxides potential depollution catalysts</p> <p>➤ Inorganic-inorganic and inorganic-organic composite for environment protection and drug delivery;</p>
<p><b>SCIENTIFIC ACTIVITY</b></p>	<p>➤ <b>PhD Supervisor</b> since 2009 - Environmental Science</p> <p>➤ 2007 (7 months,)-invited researcher, Faculty of Sciences, University of Poitiers, France</p> <p>➤ <b>SCIENTIFIC PORTOFOLIO</b></p> <ul style="list-style-type: none"> <li>- <b>HIRSCH Factor in ISI WEB OF SCIENCE = 21</b></li> <li>- <b>6 books</b></li> <li>- <b>62 papers published in ISI ranked journals</b></li> <li>- <b>over 80 public presentations</b> at national and international symposia <ul style="list-style-type: none"> <li>- <b>22 presentations</b> at international symposia</li> </ul> </li> <li>- <b>860 citations</b> of published papers</li> <li>- <b>41 national grants (4 as project director)</b></li> </ul>

**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 – 2012-2020.

**Member of Habilitation Commission CNATDCU**

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

**PhD Examiners:**

- Alexandru Ioan Cuza" University " of Iași
- "Gheorghe Asachi" Technical University of Iași
- "Grigore T. Popa" University of Medicine and Pharmacy of Iași
- 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, Moldova) și Ed. GUNIVAS (Chișinău, Moldova), 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 PROFESSIONAL MEMBERSHIPS FOREIGN LANGUAGES (Fr= French; En= English)**

- Socrates Coordinator at Faculty of Chemistry (1996 - 2004 and since 2008) ;
- Executive coordinator RUFAC - License in chemistry (in French) (since 2006) ;

**Member of Romanian Society of Chemistry**

	UNDERSTANDING		SPEAKING		Writing
	Listening	Reading	Spoken interaction	Spoken production	
Fr	C1	C1	C1	C1	C1
En	B2	B2	B2	B2	B2

April 2021

Prof, dr, chim, Alexandra Raluca IORDAN



## LISTĂRI LUCRĂRI

### Autor principal

- 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, (Factor Impact = 1,032) DOI: 10.1039/FT9938902527
- 2) **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, (Factor Impact = 1,032) DOI: 10.1039/a708242h
- 3) **Alexandra Raluca IORDAN**, M, N, PALAMARU, C, CIOBANU, M, L, CRAUS, AI, CECAL, A, F, POPA, Dégradation photochimique en phase solide des polymères avec des groupes de type uréthane, Influence des cations du bloc "p" sur le processus de dégradation, *Rev, Roum, de Chimie*, 2002, 47, 10-11, 1137-1146, (Factor Impact = 0,262)
- 4) **Alexandra Raluca IORDAN**, M, Palamaru, M, CRAUS, AI, CECAL, A, F, POPA, Influence of iron to bismuth substitution on the structure and the magnetic properties of nonstoichiometric ferrites system  $Ni_{1+x}Fe_{2-x-y}Bi_yO_{4+y}$ , *Rev, Roum, de Chimie*, 2002, 47, 8-9, 851-854, (Factor Impact = 0,262)
- 5) **Alexandra Raluca IORDAN**, M, I, Zaki, C, Kappenstein, Claudine Geron, XPS and in situ IR spectroscopic studies of CO/Rh/Al<sub>2</sub>O<sub>3</sub> at high temperature probing the impact of the potassium functionalization of support, *Phys, Chem, Chem, Phys.*, 2003, 5, 1708-1715, (Factor Impact = 3,343) DOI: 10.1039/b300962a
- 6) **Alexandra Raluca IORDAN**, M, I, ZAKI, C, KAPPENSTEIN, Formation of carboxy species at CO/Al<sub>2</sub>O<sub>3</sub> 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, (Factor Impact = 3,343) DOI: 10.1039/b401367k
- 7) **Alexandra Raluca IORDAN**, M, Airimioaiei, M,N, Palamaru, C, Galassi, A,V, Sandu, C,E, Ciomagad, F, Prihor, L, Mitoseriu, A, Ianculescu, In situ preparation of CoFe<sub>2</sub>O<sub>4</sub>–Pb(ZrTi)O<sub>3</sub> multiferroic composites by gel-combustion technique, 2009, *Journal of the European Ceramic Society*, 29, 2807–2813 (Factor Impact = 1,562) DOI: 10.1016/j.jeurceramsoc.2009.03.031
- 8) Dumitrescu, A,M,, Samoila, P,M,, Nica, V,, **Alexandra Raluca IORDAN**, Palamaru, M,N, Study of catalytic effect of oxidic compounds of NiFe<sub>2</sub>O<sub>4</sub> type in processes of chemical degradation, 2012, *Revue Roumaine de Chimie*, 57(9-10), pp, 843-848 (Factor Impact = 0,418)
- 9) 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<sub>2</sub>O<sub>4</sub> samples with potential catalytic properties, 2013, *Powder Technology*, 243, 9-17 (Factor Impact = 2,024) DOI: 10.1016/j.powtec.2013.03.033
- 10) 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 (Factor Impact = 2,354) DOI: 10.1016/j.colsurfa.2014.04.055
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- 12) A,M, Dumitrescu, V, Jucan, L, Rusu, **Alexandra Raluca IORDAN**, M,N,Palamaru, The peat-template agent for Niferrite obtaining, *Revue Roumaine de Chimie*, 2015, 60(11-12), 1033-1037 (Factor Impact = 0,311)
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- 15) Stefana Cojocaru, Adrian Borhan, Vasyl Mykhailovych, Simona Cucu-Man, Nicoleta Melniciuc-Puica, Ovidiu Florin Caltun, Vasile Hulea, Maria Cazacu, Mircea Nicolae Palamaru, **Alexandra Raluca IORDAN**, Nanosized NiFe<sub>2</sub>O<sub>4</sub>/Kaolinite composite as adsorbent for organic dyes, *Revue Roumaine de Chimie*, 2017, 62, 8-9, 687-689 (Factor Impact = 0,262)
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### Co-autor

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- 18) M, CRAUS, M, PALAMARU, AI, 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, (Factor Impact = 0,291) DOI: [10.1051/jp4:19971154](https://doi.org/10.1051/jp4:19971154)
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- 21) M, PALAMARU, M, CRAUS, **Alexandra Raluca IORDAN** AI, CECAL, F, POPA, The synthesis and characterisation of the  $\text{Li}_x\text{Cu}_{1-2x}\text{Fe}_2+x\text{O}_4$  system compounds, *Solid State Sciences*, 1999, **1**(1), 63-69, (Factor Impact = 1,698) DOI : [10.1016/S1293-2558\(00\)80065-5](https://doi.org/10.1016/S1293-2558(00)80065-5)
- 22) M, PALAMARU, M, CRAUS, **Alexandra Raluca IORDAN**, AI, CECAL, A, POPA, The influence of the deviation from molar  $\text{Sr}:(\text{Mg}+\text{Ni})=2:1$  ratio on the phase composition in the  $\text{Sr}_{1,7}\text{Mg}_x\text{Ni}_{1-x}\text{MoO}_{5,7}$  system, *Revue Roumaine de Chimie*, 2000, **45** (1), 13-19, (Factor Impact = 0,262)
- 23) AI, CECAL, A, PARASCHIVESCU, A, GULEA, M, N, PALAMARU, **Alexandra Raluca IORDAN**, K, POPA, M, CRAUS, Use of some catalysts in the radiolical split of water, *Rev, Roum, de Chimie*, 2002, **47**, 1-2, 165-172, (Factor Impact = 0,262)
- 24) M, N, PALAMARU, **Alexandra Raluca IORDAN**, C, CIOBANU, M, L, CRAUS, AI, CECAL, A, F, POPA, Dégradation photochimique en phase solide des polymères avec des groupes de type uréthane, Influence des biocations du bloc "d" sur le processus de dégradation, *Rev, Roum, de Chimie*, 2002, **47**, 3-4, 363-372, (Factor Impact = 0,262)
- 25) AI, CECAL, K, POPA, I, I, CRĂCIUN, V, POTOROACĂ, **Alexandra Raluca IORDAN**, I, CĂRĂUȘ, Bioaccumulation in macrophytae plants of some microelements from alkaline sludge resulting from uranium ores processing, *Revista de Chimie*, (Bucuresti), 2002, **53** (4), 290-293, (Factor Impact = 0,262)
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- 27) AI, CECAL, A, PARASCHIVESCU, D, COLISNIC, K, POPA, **Alexandra Raluca IORDAN**, Hydrogen production by catalysed radiolysis of water, *Rev, Roum, de Chimie*, 2003, **48**(1), 27-31, (Factor Impact = 0,262)
- 28) M, N, Palamaru, M, L, Craus, **Alexandra Raluca IORDAN**, C, Kappenstein, The synthesis and study of the properties of the compounds from  $\text{NiSb}_x\text{Fe}_{2-x}\text{O}_4$  system *Rev, Roum, de Chimie*, 2005, **50**(2), 97-102, (Factor Impact = 0,262)
- 29) K, Popa, M, N, Palamaru, **Alexandra Raluca IORDAN**, D, Humelnicu, G, Drochioiu, AI, 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, (Factor Impact = 0,585) DOI: [10.1080/10256010500384655](https://doi.org/10.1080/10256010500384655)
- 30) B, Fournaud, **Alexandra Raluca IORDAN**, S, ROSSIGNOL, J,-M, TATIBOUET, S, THOLLON, Processing and characterization of spherical alumina pellets coated with  $\text{BaTiO}_3$  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, (Factor Impact = 2,597) DOI: [10.1002/ejic.200800538](https://doi.org/10.1002/ejic.200800538)
- 31) M, N, Palamaru, **Alexandra Raluca IORDAN**, C, D, Aruxandei, I, A, Gorodea, E, A, Perianu, I, Dumitru, M, Feder, O, F, Caltun, The synthesis of doped manganese cobalt ferrites by auto combustion technique, 2008, *Journal of Optoelectronics and Advanced Materials*, **10** (7), 1853-1856, (Factor Impact = 0,827)
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- 34) Perianu, Elena-Adriana Gorodea, Ioana Aurelia Prihor, Felicia Mitoseriu, Liliana Ianculescu, Adelina Carme,n **IORDAN, Alexandra Raluca**, Palamaru, Mircea Nicolae, Preparation by Citrate Combustion and Characterization of Complex Oxides  $\text{Ca}_{2-x}\text{La}_x\text{MnMoO}_6$ , *Revista de Chimie*, 2010, **61**, 3, 242-244, (Factor Impact = 0,590) ([http://www.revistadechimie.ro/article\\_eng.asp?ID=2544](http://www.revistadechimie.ro/article_eng.asp?ID=2544))
- 35) Ciomaga, C, E, Dumitru, I, Mitoseriu, L, Galassi, C, **Alexandra Raluca IORDAN**, Airimioaei, M, Palamaru, M, N,, Magnetolectric ceramic composites with double-resonant permittivity and permeability in GHz range: A route towards isotropic metamaterials, *Scripta Materialia*, 2010, **62**, 8, 610-612, (Factor Impact = 2,806) DOI: [10.1016/j.scriptamat.2010.01.005](https://doi.org/10.1016/j.scriptamat.2010.01.005)
- 36) 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 (Factor Impact = 2,289) DOI: [10.1016/j.jallcom.2011.05.034](https://doi.org/10.1016/j.jallcom.2011.05.034)
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- 39) 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 (Factor Impact = 1,167) DOI: **10.2478/s11532-012-0098-y**
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- 41) 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 (Factor Impact = 2,072)
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- 44) 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 (Factor Impact = 1,913) DOI: **10.1016/j.materresbull.2013.08.002**
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- 47) 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 (Factor Impact = 1,846) DOI: **10.1016/j.mseb.2013.06.014**
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#### LIDER/RESPONSABIL DE PROIECT/GRANT

1. VALIDAREA UNUI NOU ADSORBANT ANORGANIC CU MORFOLOGIE DE NANO-FIBRE CONECTAT LA CARBON ACTIV PENTRU INDEPARTAREA UNOR PRODUSE FARMACEUTICE DIN APE UZATE, acronim VAL1D, PN-III-P2-2.1-PED-2019-4215, 600.000 lei
2. TEHNOLOGIE NOUA, DE SEPARARE A URANIULUI PRIN EXTRACTIE CU SOLVENTI, IN IN CAMP DE ULTRASUNETE, CU IMPACT BENEFIC ASUPRA REDUCERII CONTAMINARII CU URANIU A AREALULUI INCONJURATOR-UEXUS (Responsabil UAIC - Autoritatea Contractantă: Institutul National de Cercetare Dezvoltare pentru Metale si Resurse Radioactive –ICPMRR Bucuresti) PN II 21-074 / 2007-2010, 186000 lei
3. COMPUSI ANORGANICI CU PROPRIETATI SPECIALE DIN CLASA COMPUSILOR OXIDICI (contract CNCIS cu etape licitate anual : 180/1999;159/2000;13/2001;306/2002) 113.000.000 lei
4. SINTEZE SI CARACTERIZARI DE COMPUSI OXIDICI CU PROPRIETATI MAGNETOREZISTIVE (contract CNCIS 14002/2003-2005) 233.000.000 lei

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