

## CURRICULUM VITAE

Nume și prenume  
Locul și data nașterii  
Naționalitate  
Date de contact

### IORDAN Alexandra Raluca

Ploiești (jud. Prahova), 18.08.1957  
Română

Universitatea "Alexandru Ioan Cuza" din Iași  
Departamentul de Chemie, Facultatea de Chemie  
Bulevardul Carol I nr. 11, 700506-Iași, Romania  
Telefon / Fax : +40232201341/+40232201313  
E-mail : alexandra.iordan@uaic.ro



## EDUCAȚIE

- 31.01.1994 **diplomă de Doctor al Universității din Poitiers (Franța), domeniul Chimie APLICATĂ**, echivalentă cu diploma de doctor în chimie ce se acorda în România prin Ordinul Ministrului Învățământului nr. 8070/06.12.1994
- 1980-1981, Institutul Politehnic Iași, Facultatea de chimie, Secția Chimie, **Diplomă de Specialitate în „Fizico-chimia polimerilor”**
- 1976-1980, Institutul Politehnic "Gh. Asachi" Iași, Facultatea de Tehnologie Chimica, Secția Chimie, **Diplomă de Licențiat în chimie**
- 1972-1976, Liceul real-umanist "I. L. Caragiale" Ploiești, **Diplomă de bacalaureat**

## EXPERIENȚA PROFESSIONALĂ

- din 01.10.2001 Profesor în cadrul Universității "Alexandru Ioan Cuza" Iași, Facultatea de Chimie, Catedra de Chimie Anorganică
- 16.02.1998-01.10.2001: Conferențiar în cadrul Universității "Alexandru Ioan Cuza" Iași, Facultatea de Chimie, Catedra de Chimie Anorganică
- 01.10.1994-15.02.1998 : Lector în cadrul Universității "Alexandru Ioan Cuza" Iași, Facultatea de Chimie, Catedra de Chimie Anorganică
- 01.04.1990-30.09.1994 : Asistent titular în cadrul Universității "Alexandru Ioan Cuza" Iași, Facultatea de Chimie, Catedra de Chimie Anorganică
- 15.09.1988-31.03.1990 : Asistent suplinitor în cadrul Institutului Politehnic "Gheorghe Asachi" Iași, Facultatea de Tehnologie Chimica, Catedra de chimie Anorganică.
- 01.04.1986-14.09.1988 : Chimist, Institutul de Cercetări Chimico-Farmaceutice Bucuresti, Centrul de Cercetări pentru Antibiotice Iași, colectivul de Chimie Analitică.
- 28.12.1983-31.03.1986 : Chimist la Institutul de Cercetări Chimice Bucuresti, Secția Brazi, colectivul de prelucrare polimerilor
- 07.09.1981-27.12.1983 : Chimist la Combinatul Petrochimic Brazi - Uzina de Cauciuc, Atelierul Izomerizare n-pentan și hidrogen

## DOMENII DE COMPETENȚĂ

- Chimie anorganică : chimia metalelor, chimia nemetalelor, chimia compușilor coordinativi
- Materiale oxidice : sinteză, caracterizare
- Cataliză eterogenă
- Protecția mediului
- Chimie bioanorganică

## DOMENII DE CERCETARE

- Oxizi polimetaliți : sinteză, caracterizare, aplicații în cataliza heterogenă ;
- Oxizi polimetaliți protecția mediului;
- Compozite anorganice-organice pentru eliberarea controlată a medicamentelor

## ACTIVITATE ȘTIINȚIFICĂ (ANEXE)

- din 2009 – Conducător de doctorat, domeniul Știința Mediului (Ordinul Ministrului Educației, Cercetări și Inovării nr.4697 / 14.08.2009)
- 2007 (7 luni, ianuarie - iulie) - Cercetător invitat la Facultatea de Științe, Universitatea din Poitiers (Franța)
- **PORTOFOLIU ȘTIINȚIFIC**

### ARTICOLE PUBLICATE și CĂRȚI :

- articole științifice publicate în reviste de specialitate: 82
- 65 articole în reviste cotate ISI
- 5 articole în reviste de specialitate indexate în baze de date internaționale
- Cărți : 6

### MANIFESTĂRI ȘTIINȚIFICE

- peste 80 participări / 22 participări la manifestări științifice în străinătate

### RECUNOAȘTERE REZULTATELOR ACTIVITĂȚII DE CERCETARE

- Hirsch index: 19, Citări : peste 800 (WOS)
- Hirsch index: 22 (Google Scholar)

**DIRECTOR/RESPONSABIL GRANTURI DE CERCETARE / DEZVOLTARE : 9-** finanțare națională

**MEMBRU ÎN ECHIPE GRANTURI DE CERCETARE : 34** -finanțare națională

## ACTIVITATE DE EVALUARE ȘI EXPERTIZĂ

**Membru în Comisia "Ingineria Mediului" a CNATDCU (2012-2020)**

**Referent oficial în comisii de abilitare CNATDCU**

- Universitatea "Alexandru Ioan Cuza" Iași

- Universitatea Tehnică "Gheorghe Asachi" Iași
- Universitatea "Vasile Alecsndri" Bacău

**Referent oficial în comisii de doctorat :**

- Universitatea "Alexandru Ioan Cuza" Iași
- Universitatea Tehnică "Gheorghe Asachi" Iași
- Universitatea de Medicină și Farmacie "Grigore T. Popa" Iași
- Universitatea din Poitiers (Franța)
- Universitatea Paris XI (Franța)
- Institutul Național Politehnic Toulouse (Franța)

**Consultant științific de Chimie**, Dicționar explicativ ilustrat al limbii române, Editura ARC (Chișinău, Moldova) și Editura GUNIVAS (Chișinău, Moldova), 2007, ISBN 978-9975-61-155-8 (ARC), ISBN 978-9975-908-04-7 (GUNIVAS), 2239 pagini

**Referent științific pentru reviste internaționale de specialitate**

- 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

**COORDONATOR  
STRUCTURI SOCIO-  
PROFESIONALE**

**MEMBRU ÎN SOCIETĂȚI  
ȘTIINȚIFICE**

**LIMBI STRĂINE  
CUNOSCUTE**  
(Fr=franceză; En=engleză)

**Membru** al Societății Romane de Chimie

	<b>Înțelegere</b>			<b>Vorbire</b>		<b>Scriere</b>
Lb.	Așculturare	Citire	Conversație	Discurs oral		
Fr	C2	C2	C2	C2		C2
En	B2	B2	B2	B2		B2

martie 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 otassium-modified Aluminas, *J, Chem, Soc., Faraday Trans.*, 1993, 89 (14), 2527, (Factor Impact = 1,032) DOI: [10.1039/FT9938902527](https://doi.org/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](https://doi.org/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  $Ni_{1+x}Fe_{2-x-y}Bi_xO_{4+y}$ , *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](https://doi.org/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](https://doi.org/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 CoFe2O4–Pb(ZrTi)O3 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](https://doi.org/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 NiFe2O 4 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](https://doi.org/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](https://doi.org/10.1016/j.colsurfa.2014.04.055)
- 11) 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 (Factor Impact = 2,269) DOI: [10.1016/j.powtec.2014.08.022](https://doi.org/10.1016/j.powtec.2014.08.022)
- 12) A,M, Dumitreseu, 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)
- 13) S, Cojocaru, A,M, Dumitrescu, I,G, Breabăñ, A,A, Domocos, **Alexandra Raluca IORDAN**, N, Melniciuc Puică, M,N, Palamaru, Exploiting the natural potential of romanian kaolin clay, Adsorption capacity improvement through heat treatment, *Optoelectronics and advanced materials - Rapid communications*, 2015, 9, 1530 (Factor Impact = 0,394)
- 14) 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 (Factor Impact = 2,259) DOI: [10.1016/j.matchemphys.2015.02.044](https://doi.org/10.1016/j.matchemphys.2015.02.044)
- 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)
- 16) Borhan, A.I., Gherca, D., Cojocaru, Lupu, N., Roman, T., Zaharia, M., Palamaru, M.N., **Alexandra Raluca IORDAN**, One-pot synthesis of hierarchical magnetic porous  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>@NiFe<sub>2</sub>O<sub>4</sub> composite with solid-phase morphology changes promoted by adsorption of anionic azo-dye, *Materials Research Bulletin*, 2020, 122(1):110664122, (Factor Impact = 4,019) DOI: [10.1016/j.materresbull.2019.110664](https://doi.org/10.1016/j.materresbull.2019.110664)

Co-autor

- 17) N, CALU, I, SANDU, M, BANGURA, M, CALU, **Alexandra Raluca IORDAN**, Recuperarea componentilor principali din slamul rosu (II), Spectre IR ale compusilor din diferite faze de separare, *Revista de Chimie*, (Bucuresti), 1991, 42 (4-5), 226-228, (Factor Impact = 0,261)

- 18) M, CRAUS, M, PALAMARU, AI, CECAL, I, RUSU, Alexandra Raluca IORDAN, Structural charges in the perovskitic compounds series Sr<sub>2</sub>Mg<sub>1-x</sub>M<sub>x</sub>MoO<sub>6</sub>, *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)
- 19) AI, Cecal, M, Palamaru, A, PUI, S, Chișcă, Alexandra Raluca IORDAN, Radiometric methode for the study of the nucleation of crystals containing <sup>134</sup>Cs<sup>+</sup> ions in gelatin, *J. Radioanal. Nucl. Chem.*, 1997, **222**, 39-43, (Factor Impact = 0,499)
- 20) AI, Cecal, S, Chișcă, M, Palamaru, Alexandra Raluca IORDAN, Radiokinetic study on the nucleation in agar and gelatin of some crystals containing <sup>55+59</sup>Fe<sup>3+</sup> ions, *J. Radioanal. Nucl. Chem.*, 1998, **238**, 203-206 (Factor Impact = 0,499)
- 21) M, PALAMARU, M, CRAUS, Alexandra Raluca IORDAN AI, CECAL, F, POPA, The synthesis and characterisation of the Li<sub>x</sub>Cu<sub>1-2x</sub>Fe<sub>2+x</sub>O<sub>4</sub> 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 Sr:(Mg+Ni)=2:1 ratio on the phase composition in the Sr<sub>1,7</sub>Mg<sub>x</sub>Ni<sub>1-x</sub>MoO<sub>5,7</sub> 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 radiolytical 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)
- 26) AI, CECAL, K, POPA, S, CHISCA, A, BALAN, Alexandra Raluca IORDAN, Kinetic study on the nucleation process within the systems <sup>204</sup>Tl<sup>+</sup>-CrO<sub>4</sub><sup>2-</sup>; <sup>204</sup>Tl<sup>+</sup>-H<sub>2</sub>PO<sub>4</sub><sup>-</sup> și <sup>204</sup>Tl<sup>+</sup>-IO<sub>3</sub><sup>-</sup> in gelatin, *Rev. Roum. de Chimie*, 2003, **48**(5), 357-360, (Factor Impact = 0,262)
- 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 NiSb<sub>x</sub>Fe<sub>2-x</sub>O<sub>4</sub> 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 <sup>60</sup>Co<sup>2+</sup>, <sup>65</sup>Zn<sup>2+</sup> and <sup>55+59</sup>Fe<sup>3+</sup> 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 BaTiO<sub>3</sub> and Li<sub>0,10</sub>Ti<sub>0,02</sub>Ni<sub>0,88</sub>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)
- 32) Ciomaga, C,E,, Galassi, C,, Prihor, F,, Dumitru, I,, Mitoseriu, L,, Alexandra Raluca IORDAN, Airimioaei, M,, Palamaru, M,N,, Preparation and properties of the CoFe<sub>2</sub>O<sub>4</sub>-Nb-Pb(Zr,Ti)O<sub>3</sub> multiferroic composites prepared in situ by gel-combustion method, 2009, *Journal of Alloys and Compounds*, 485 (1-2), 372-378 (Factor Impact = 1,455) DOI: [10.1016/j.jallcom.2009.05.101](https://doi.org/10.1016/j.jallcom.2009.05.101)
- 33) Gorodea, I,A,, Perianu, E,A,, Alexandra Raluca IORDAN, Palamaru, M,N, Structural, electrical and magnetic characterization of the double perovskites Sr<sub>2</sub>Cr<sub>(1+x)</sub>W<sub>(1-x)</sub>O<sub>6</sub>, 2010, *Revista de Chimie*, 61(4), 351-354 (Factor Impact = 0,590)
- 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 Ca<sub>2</sub>-xLaxMnMoO<sub>6</sub>, *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,, Magnetoelectric 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 Ni<sub>1-x</sub>Mn<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> 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)
- 37) Perianu, E,-A,, Gorodea, I,A,, Gheorghiu, F,, Sandu, A,V,, Ianculescu, A,C,, Sandu, I,, Alexandra Raluca IORDAN, Palamaru, M,N,, Preparation and dielectric spectroscopy characterization of Ca<sub>2</sub>MnMoO<sub>6</sub> (A = Ca,Sr and Ba) double 2011, perovskites, *Revista de Chimie*, 62(1), 17-20 (Factor Impact = 0,590)

- 38) Slatineanu, Tamara, **Alexandra Raluca IORDAN**, Palamaru, Mircea Nicolae, Caltun, Ovidiu Florin, Gafton, Vasilica, Leontie, Liviu, Synthesis and characterization of nanocrystalline Zn ferrites substituted with Ni, *Materials Research Bulletin*, 2011, 46, 9, 1455-1460
- 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/sejch-2012-0098-y](https://doi.org/10.2478/sejch-2012-0098)
- 40) Constantin, C.P., Slatineanu, T., Palamaru, M., **Alexandra Raluca IORDAN**, Caltun, O.F, CoxZnx-1Fe2O4 Nanoparticles ferrite series as magnetic resonance imaging contrast agents, 2012, *Digest Journal of Nanomaterials and Biostructures*, 7(4), 1793-1798 (Factor Impact = 1,200)
- 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)
- 42) Aruxandei, Carmen Dorina; Cornei, Nicoleta; Hutanu, Cristina Amalia; Ciomaga, Cristina Elena; Samoila, Petrisor Mugurel; **Alexandra Raluca IORDAN**; Palamaru, Mircea Nicolae, Sol-Gel Synthesis and Characterization of LiMn<sub>2-x</sub>Cu<sub>x</sub>O<sub>4</sub> Spinels, 2012, *Revista de Chimie*, 63(1), 14-17 (Factor Impact = 0,590)
- 43) 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 NiFe 2O 4-PZT composites obtained in-situ by gel-combustion method, 2012, *Journal of the European Ceramic Society*, 32(12), 3325-3337 (Factor Impact = 2,36) DOI : [10.1016/j.jeurceramsoc.2012.03.041](https://doi.org/10.1016/j.jeurceramsoc.2012.03.041)
- 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](https://doi.org/10.1016/j.materresbull.2013.08.002)
- 45) 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 (Factor Impact = 1,813) DOI : [10.1016/j.poly.2013.03.058](https://doi.org/10.1016/j.poly.2013.03.058)
- 46) Feraru, S., Samoila, P., Nica, V., **Alexandra Raluca IORDAN**, Palamaru, M,N,, Influence of the B-site cation nature on dielectric properties of Ca<sub>2</sub>XBiO<sub>6</sub> (X = Dy, Fe, Al) double perovskite, 2013, *Chemical Papers*, 67(10), 1311-1316 (Factor Impact = 0,879) DOI: [10.2478/s11696-013-0394-9](https://doi.org/10.2478/s11696-013-0394-9)
- 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](https://doi.org/10.1016/j.mseb.2013.06.014)
- 48) Borhan, A,I., **Alexandra Raluca IORDAN**, Palamaru, M,N, Correlation between structural, magnetic and electrical properties of nanocrystalline Al3+ substituted zinc ferrite, 2013, *Materials Research Bulletin*, 48(7), 2549-2556 (Factor Impact = 1,913) DOI: [10.1016/j.materresbull.2013.03.012](https://doi.org/10.1016/j.materresbull.2013.03.012)
- 49) 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<sub>2</sub>O<sub>4</sub> ferrite, 2013, *Central European Journal of Chemistry*, 11(8), 1330-1342 (Factor Impact = 1,167) DOI: [10.2478/sejch-2013-0260-1](https://doi.org/10.2478/sejch-2013-0260-1)
- 50) Feraru, S., Samoila, P., Borhan, A,I., Ignat, M., **Alexandra Raluca IORDAN**, Palamaru, M,N, Synthesis, characterization of double perovskite Ca<sub>2</sub>MSbO<sub>6</sub> (M = Dy, Fe, Cr, Al) materials via sol-gel auto-combustion and their catalytic properties, 2013, *Materials Characterization*, 84, 112-119 (Factor Impact = 1,880) DOI: [10.1016/j.matchar.2013.07.005](https://doi.org/10.1016/j.matchar.2013.07.005)
- 51) 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, 2016, *Environmental Engineering and Management Journal*, 15, 11, 2537-2543 (Factor Impact = 1,117)
- 52) M,Airimioaei, M-N Palamaru, **Alexandra Raluca IORDAN**, P,Berthet, C,Decorse, L,Curecheriu, L,Mitoseriu, Structural Investigation and Functional Properties of Mg<sub>x</sub>Ni<sub>1-x</sub>Fe<sub>2</sub>O<sub>4</sub> Ferrites, 2014, *Journal of the American Ceramic Society*, 97, 519 (Factor Impact = 2,428) DOI: [10.1111/jace.12683](https://doi.org/10.1111/jace.12683)
- 53) A,I, Borhan, P, Samoila, Vasile Hulea, **Alexandra Raluca IORDAN**, M,N, Palamaru, Photocatalytic activity of spinel ZnFe<sub>2-x</sub>Cr<sub>x</sub>O<sub>4</sub> nanoparticles on removal Orange I azo dye from aqueous solution, 2014, *Journal of the Taiwan Institute of Chemical Engineers*, 45, 1655 (Factor Impact = 2,637) DOI: [10.1016/j.jtice.2013.12.002](https://doi.org/10.1016/j.jtice.2013.12.002)
- 54) A,I, Borhan, P, Samoila, Vasile Hulea, **Alexandra Raluca IORDAN**, M,N, Palamaru, Effect of Al<sup>3+</sup> substituted zinc ferrite on photocatalytic degradation of Orange I azo dye, 2014, *Journal of Photochemistry and Photobiology A: Chemistry*, 279, 17 (Factor Impact = 2,475) DOI: [10.1016/j.jphotochem.2014.01.010](https://doi.org/10.1016/j.jphotochem.2014.01.010)
- 55) 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 A2DyBiO<sub>6</sub> (A = Mg, Ca, Sr, Ba) double perovskites, 2014, *Australian Journal of Chemistry*, 67, 250 (Factor Impact = 1,644) DOI: [10.1071/CH13300](https://doi.org/10.1071/CH13300)
- 56) A,I, Borhan, Vasile Hulea, **Alexandra Raluca IORDAN**, M,N, Palamaru, Cr<sup>3+</sup> and Al<sup>3+</sup> co-substituted zinc ferrite: Structural analysis, magnetic and electrical properties, 2014, *Polyhedron*, 70, 110 (Factor Impact = 2,068) DOI: [10.1016/j.poly.2013.12.022](https://doi.org/10.1016/j.poly.2013.12.022)

- 57) 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 (Factor Impact = 2,086) DOI: [10.1016/j.ceramint.2014.05.071](https://doi.org/10.1016/j.ceramint.2014.05.071)
- 58) 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 Mg<sub>x</sub>Ni<sub>1-x</sub> Fe<sub>2</sub>O<sub>4</sub> ceramics, *Journal of Materials Science*, 2014, 49, 3276 (Factor Impact = 2,371) DOI: [10.1007/s10853-014-8033-6](https://doi.org/10.1007/s10853-014-8033-6)
- 59) 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 (Factor Impact = 2, 999) DOI: [10.1016/j.jallcom.2015.08.152](https://doi.org/10.1016/j.jallcom.2015.08.152)
- 60) Feraru, S,; Borhan, A, I,; Samoila, P,; Mita, C,; Cucu-Man, S,; **Alexandra Raluca IORDAN**; Palamaru, M, N,, Development of visible-light-driven Ca<sub>2</sub>Fe<sub>1-x</sub>Sm<sub>x</sub>BiO<sub>6</sub> double perovskites for decomposition of Rhodamine 6G dye, *Journal of Photochemistry and Photobiology A: Chemistry*, 2015, 307, 1 (Factor Impact = 2,495) <https://doi.org/10.1016/j.jphotochem.2015.04.004>
- 61) Florin Tudorache, Iulian Petrila Tamara Slatineanu Anca Mihaela Dumitrescu, **Alexandra Raluca IORDAN** Marius Dobromir Mircea Nicolae Palamaru Humidity sensor characteristics and electrical properties of Ni-Zn-Dy ferrite material prepared using different chelating-fuel agents, *Journal of Materials Science - Material in Electronic*, 2016, 27, 1, 272-278 (Factor Impact = 2,324) DOI: [10.1007/s10854-015-3750-4](https://doi.org/10.1007/s10854-015-3750-4)
- 62) Gherca, D., Cojocaru, S., Roman, T., Herea, D.D., Stoian, G., Lupu, N., Palamaru, M.N., **Alexandra Raluca IORDAN**, Borhan, A.I., Reversible thermo-driven solid-state morphological transformation of nanotextured spinel material, *Journal of Solid State Chemistry*, 2020, 289, 121521 (Factor Impact = 2,726), DOI:[10.1016/j.jssc.2020.121521](https://doi.org/10.1016/j.jssc.2020.121521)

#### CARTI PUBLICATE

1. **Alexandra Raluca IORDAN**, M. N. Palamaru, Al. Cecal, *Introducere in chimia compusilor de coordinatie*, Ed.TEHNOPRESS, Iasi, ISBN 973-98277-7-2, 1997, 271 pagini.
2. **Alexandra Raluca IORDAN**, M. N. Palamaru, Al. Cecal, *Catene, cicluri si clusteri anorganici*, Ed. Moldavia, Bacau, ISBN 973-99525-3-4, 2000, 312 pagini.
3. M. N. Palamaru, **Alexandra Raluca IORDAN**, Al. Cecal, *Chimie bioanorganica si metalele vietii*, Ed. BIT, Iasi, 1997, ISBN 973-97908-9-5, 395 pagini.
4. M. N. Palamaru, **Alexandra Raluca IORDAN**, Al. Cecal, *Chimie bioanorganica generala*, Editura Universitatii "Alexandru Ioan Cuza", Iasi, 1998, ISBN 973-9312-34-9, 325 pagini.
5. M. N. Palamaru, **Alexandra Raluca IORDAN**, K. POPA, *Bazele Chimiei Bioanorganice. Lucrari practice si aplicatii*. Ed.TEHNOPRESS, Iasi, 2004, ISBN 973-8377-82-x, 366 pagini.
6. O. F. Caltun, I. Dumitru, G. Dascalu, L. Hrib, M. N. Palamaru, **Alexandra Raluca IORDAN**, M. Feder, H. Chriac, N. Lupu, V. Vilceanu, M. Caldararu, B. Negulescu, *Ferite de cobalt magnetostrictive*, Editura Universitatii "Alexandru Ioan Cuza" ISBN 978-973-703-414-4, Iasi 2009, 320 pagini

#### 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 CNCSIS cu etape licitate annual : 180/1999;159/2000;13/2001;306/2002) 113.000.000 lei
4. SINTEZE SI CARACTERIZARI DE COMPUSI OXIDICI CU PROPRIETATI MAGNETOREZISTIVE (contract CNCSIS 14002/2003-2005) 233.000.000lei

Prof, dr, chim, Alexandra Raluca IORDAN