

CURRICULUM VITAE

Nume și prenume
Locul și data nașterii
Naționalitate
Date de contact

IODAN Alexandra Raluca

Română
Universitatea "Alexandru Ioan Cuza" din Iași
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EDUCAȚIE

31.01.1994 **diplomă de Doctor al Universității din Poitiers (Franța), domeniul Chimie Aplicată**, echivalată 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" Ploiesti, **Diplomă de bacalaureat**

EXPERIENȚA PROFESIONALĂ

- din 01.10.2022 : Professor Emeritus al Universității "Alexandru Ioan Cuza" Iași,
- 01.10.2001-30.09.2022 : Profesor în cadrul 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 "Gheoghe Asachi" Iași, Facultatea de Tehnologie Chimica, Catedra de chimie Anorganică.
- 01.04.1986-14.09.1988 : Chimist, Institutul de Cerăetări Chimico-Farmaceutice București, Centrul de Cercetări pentru Antibiotice Iași, colectivul de Chimie Analitică.
- 28.12.1983-31.03.1986 : Chimist la Institutul de Cercetări Chimice București, 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 polimetali : sinteză, caracterizare, aplicații în cataliza heterogenă ;
- Oxizi polimetali protecția mediului;
- Compozite anorganice-organice pentru eliberarea controlată a medicamentelor

ACTIVITATE ȘTIINȚIFICĂ (ANEXE)

- **din 2009** – Conducător de doctorat, domeniul Știința Mediului (Ordinul Ministrului Educației, Cercetării 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
- 66 articole în reviste cotate ISI
- 5 articol în reviste de specialitate indexe în baze de date internaționale
- Cărți/capitole de carte : 9

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 : 4- finanțare națională

MEMBRU ÎN ECHIBE 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 Alecsandri" 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**

- **Director Școala doctorală de Geoștiințe, IOSUD Universitatea "Alexandru Ioan Cuza" din Iași** (decembrie 2018 – iulie 2022)
- Coordonator Program Erasmus la Facultatea de Chimie (1996 - 2004 și 2008-2021) ;
- Director executiv al Licenței Francofone de Chimie din cadrul RUFAC (2006 - 2010) ;

**MEMBRU ÎN SOCIETĂȚI
ȘTIINȚIFICE**

Membru al Societății Române de Chimie

**LIMBI STRĂINE
CUNOSCUTE**

(Fr=franceză; En=engleză)

Lb.	Înțelegere		Vorbire		Scriere
	Ascultare	Citire	Conversație	Discurs oral	
Fr	C2	C2	C2	C2	C2
En	B2	B2	B2	B2	B2

iulie 2025

Prof. dr. chim. Alexandra Raluca IORDAN

LISTĂRI LUCRĂRI

- 1) 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)
- 2) **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**
- 3) 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**
- 4) AI, CECAL, M, PALAMARU, A, PUI, S, Chișcă, **Alexandra Raluca IORDAN**, Radiometric methods for the study of the nucleation of crystals containing $^{134}\text{Cs}^+$ ions in gelatin, *J, Radioanal, Nucl, Chem.*, 1997, **222**, 39-43, (Factor Impact = 0,499)
- 5) **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**
- 6) AI, 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 (Factor Impact = 0,499)
- 7) M, PALAMARU, M, CRAUS, **Alexandra Raluca IORDAN** AI, CECAL, F, POPA, The synthesis and characterisation of the $\text{Li}_x\text{Cu}_{1-2x}\text{Fe}_2\text{xO}_4$ system compounds, *Solid State Sciences*, 1999, **1**(1), 63-69, (Factor Impact = 1,698) DOI : **10.1016/S1293-2558(00)80065-5**
- 8) 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)
- 9) **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)
- 10) **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 $\text{Ni}_{1+x}\text{Fe}_{2-x-y}\text{Bi}_y\text{O}_{4+y}$, *Rev, Roum, de Chimie*, 2002, **47**, 8-9, 851-854, (Factor Impact = 0,262)
- 11) 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)
- 12) 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)
- 13) AI, CECAL, K, POPA, I, I, Crăciun, V, Potorocă, **Alexandra Raluca IORDAN**, I, Cărauş, Bioaccumulation in macrophyte 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)
- 14) **Alexandra Raluca IORDAN**, M, I, Zaki, C, Kappenstein, Claudine Geron, XPS and in situ IR spectroscopic studies of $\text{CO}/\text{Rh}/\text{Al}_2\text{O}_3$ at high temperature probing the impact of the potassium functionalization of support, *Phys, Chem, Chem, Phys*, 2003, **5**, 1708-1715, (Factor Impact = 3,343) DOI: **10.1039/b300962a**
- 15) AI, CECAL, K, POPA, S, CHISCA, A, BALAN, **Alexandra Raluca IORDAN**, Kinetic study on the nucleation process within the systems $^{204}\text{Ti}^+-\text{CrO}_4^{2-}$, $^{204}\text{Ti}^+-\text{H}_2\text{PO}_4^-$ și $^{204}\text{Ti}^+-\text{IO}_3^-$ in gelatin, *Rev, Roum, de Chimie*, 2003, **48**(5), 357-360, (Factor Impact = 0,262)
- 16) 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)
- 17) **Alexandra Raluca IORDAN**, M, I, ZAKI, C, KAPPENSTEIN, Formation of carboxy species at $\text{CO}/\text{Al}_2\text{O}_3$ 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, (Factor Impact = 3,343) DOI: **10.1039/b401367k**
- 18) 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)
- 19) 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**
- 20) 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, (Factor Impact = 2,597) DOI: **10.1002/ejic.200800538**
- 21) 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)
- 22) **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 $\text{CoFe}_2\text{O}_4-\text{Pb}(\text{ZrTi})\text{O}_3$ 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**
- 23) Ciomaga, C,E, Galassi, C., Prihor, F., Dumitru, I., Mitoseriu, L., **Alexandra Raluca IORDAN**, Airimioaei, M., Palamaru, M,N., Preparation and properties of the $\text{CoFe}_2\text{O}_4-\text{Nb}-\text{Pb}(\text{Zr,Ti})\text{O}_3$ 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**
- 24) Gorodea, I,A., Perianu, E,A., **Alexandra Raluca IORDAN**, Palamaru, M,N, Structural, electrical and magnetic characterization of the double perovskites $\text{Sr}_2\text{Cr}_{(1-x)}\text{W}_{(1-x)}\text{O}_6$, 2010, *Revista de Chimie*, **61**(4), 351-354 (Factor Impact = 0,590)

- 25) Perianu, Elena-Adriana Gorodea, Ioana Aurelia Prihor, Felicia Mitoseriu, Liliana Ianculescu, Adelina Carme, **ORDAN, 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)
- 26) 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**
- 27) 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**
- 28) 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 $\text{Ca}_2\text{MnMoO}_6$ (A = Ca, Sr and Ba) double 2011, perovskites, *Revista de Chimie*, 62(1), 17-20 (Factor Impact = 0,590)
- 29) 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
- 30) 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 (Factor Impact = 0,418)
- 31) 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**
- 32) Constantin, C.P., Slatineanu, T., Palamaru, M., **Alexandra Raluca IORDAN**, Caltun, O.F, $\text{Co}_x\text{Zn}_{1-x}\text{Fe}_2\text{O}_4$ Nanoparticles ferrite series as magnetic resonance imaging contrast agents, 2012, *Digest Journal of Nanomaterials and Biostructures*, 7(4), 1793-1798 (Factor Impact = 1,200)
- 33) 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)
- 34) 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 $\text{LiMn}_{2-x}\text{Cu}_x\text{O}_4$ Spinel, 2012, *Revista de Chimie*, 63(1), 14-17 (Factor Impact = 0,590)
- 35) 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 magnetolectric 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**
- 36) 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 (Factor Impact = 2,024) DOI: **10.1016/j.powtec.2013.03.033**
- 37) 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**
- 38) 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**
- 39) 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 (Factor Impact = 0,879) DOI: **10.2478/s11696-013-0394-9**
- 40) 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**
- 41) 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 (Factor Impact = 1,913) DOI: **10.1016/j.materresbull.2013.03.012**
- 42) 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 (Factor Impact = 1,167) DOI: **10.2478/s11532-013-0260-1**
- 43) 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 (Factor Impact = 1,880) DOI: **10.1016/j.matchar.2013.07.005**
- 44) 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**
- 45) 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**

- 46) 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 (Factor Impact = 2,428) DOI: [10.1111/jace.12683](https://doi.org/10.1111/jace.12683)
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CĂRȚI / CAPITOLE DE CARTE PUBLICATE

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7. Adrian Iulian Borhan, Daniel Ghercă, **Alexandra Raluca Iordan**, Mircea Nicolae Palamaru, Classification and types of ferrites in *Applications of Nanostructured Ferrites* (Woodhead Publishing Series in Electronic and Optical Materials) 2023, Pag. 17-34, DOI: 10.1016/B978-0-12-823717-5.00026-7
8. Adrian Iulian Borhan, **Alexandra Raluca Iordan**, Mircea Nicolae Palamaru, Daniel Ghercă, Ferrites and their composites as visible-light-driven photocatalysts for water splitting and decontamination in *Applications of Nanostructured Ferrites* (Woodhead Publishing Series in Electronic and Optical Materials) 2023, Pag. 83-102, DOI: 10.1016/B978-0-443-18874-9.00003-5
9. Adrian Iulian Borhan, **Alexandra Raluca Iordan**, Daniel Ghercă, Mircea Nicolae Palamaru, Ferrite nanoparticles by sol-gel method in *Technologies and Applications* (Woodhead Publishing Series in Electronic and Optical Materials) 2023, Pag.103-119, DOI: 10.1016/B978-0-12-823717-5.00047-4

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 annual : 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

iulie 2025

Prof. em. dr. chim. Alexandra Raluca IORDAN

