



(ANEXA 2)

**STANDARDE MINIMALE PE DOMENII ALE UNIVERSITĂȚII
DOMENIUL DE CONCURS - CHIMIE**

FUNCTIA DIDACTICA	Îndeplinirea standardelor minimale obligatorii stabilite de comisia de Chimie din cadrul CNADCU	Un grant câștigat prin competiție, ca director de proiect	Un curs/ o carte/ capitol de carte/ manual de exerciții și probleme	Minim 50 de puncte de la ultima promovare	Activitatea științifică trebuie să fie obligatoriu în profilul postului
CONFERENȚIAR	Standarde intrunite - Criteriu depasit (conform paginilor anexe)	Criteriu indeplinit - Depasit	Criteriu indeplinit - Depasit	Total punctaje autoevaluari in perioada 2016-2019 - criteriu depasit	Criteriu indeplinit (conform lista de lucrari)

Data

Lect.univ.dr. Maria IGNAT

18.12.2019

**Îndeplinirea standardelor minime obligatorii stabilite de comisia de Chimie din cadrul CNADCU**

În acord cu ORDINUL nr. 6129 din 20 decembrie 2016, STANDARDELE MINIMALE NECESARE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE (Anexa nr.4 - Comisia de Chimie):

Categorie	Criterii generale		Observații
	Minim necesare Conferențiar	Îndeplinite	
N_{\max}^*	30	30	30 articole din 60 total publicate
FIC ^{**}	50	112.385	Depășit
FIC _{AP} ^{***}	20	37.911	Depășit
h index ^{****}	9	10 (fara autocitari, SCOPUS)	Depășit

(*) N_{\max} - primele maxim N lucrări, organizate în ordinea descrescătoare a factorilor de impact a revistelor în care au fost publicate;

(**) FIC - factorul de impact cumulat minimal al revistelor în care s-au publicat lucrările în cauză;

(****) FIC_{AP} - factorul de impact cumulat minimal din publicații în calitate de autor principal (prim-autor și autor de corespondență);

(****) FIC_{AC} - factorul de impact cumulat minimal din publicații în calitate de autor de corespondență.

Suplimentar, la cele de mai sus se adaugă:

- 11 granturi/proiecte (naționale și internaționale) de cercetare câștigate prin competiție, în calitate de director/responsabil de proiect și 7 granturi în calitate de membru;
- 2 cărți publicate în edituri recunoscute CNCSIS;
- 5 capitole de carte apărute în cărți în edituri internaționale;
- 2 cereri de brevet naționale.

**1 Lista primelor 30 lucrari stiintifice conform SCOPUS (calcul factor cumulat conform cerintelor CNADTCU):**

Crt.	Authors	Title	Year	Impact factor	Source title	Vol	Issue	Art No	Page start	Page end	Page count	Cited by	Document Type
1	Rezlescu N., Rezlescu E., Popa P.D., Doroftei C., Ignat M.	Scandium substituted nickel-cobalt ferrite nanoparticles for catalyst applications	2014	14.229	Applied Catalysis B: Environmental	158 - 159			70	75		16	Article
2	Coromelci-Pastravanu C., Ignat M. *, Popovici E., Harabagiu V.	TiO ₂ -coated mesoporous carbon: Conventional vs. microwave-annealing process	2014	7.65	Journal of Hazardous Materials	278			382	390		12	Article
3	Dvininov E., Ignat M., Barvinschi P., Smithers M.A., Popovici E.	New SnO ₂ /MgAl-layered double hydroxide composites as photocatalysts for cationic dyes bleaching	2010	7.65	Journal of Hazardous Materials	177	3-Jan		150	158		75	Article
4	Ignat M., Van Oers C.J., Vernimmen J., Mertens M., Potgieter-Vermaak S., Meynen V., Popovici E., Cool P.	Textural property tuning of ordered mesoporous carbon obtained by glycerol conversion using SBA-15 silica as template	2010	7.466	Carbon	48	5		1609	1618		51	Article



5	Rezlescu N., Rezlescu E., Popa P.D., Doroftei C., Ignat M.	Characterization and catalytic properties of some perovskites	2014	6.864	Composites Part B: Engineering	60			515	522		20	Article
6	Ignat M.*, Samoila P., Cojocaru C., Soreanu G., Cretescu I., Harabagiu V.	Porous polymer/inorganic composite matrices as efficient desiccants for air dehumidification	2019	5.155	Applied Surface Science	487			1189	1197			Article
7	Lutic D., Petrovski D., Ignat M., Creășescu I., Bulai G.	Mesoporous cerium-doped titania for the photocatalytic removal of persistent dyes	2018	4.888	Catalysis Today	306			300	309		5	Article
8	Pascariu P., Cojocaru C., Olaru N., Samoila P., Airinei A., Ignat M., Sacarescu L., Timpu D.	Novel rare earth (RE-La, Er, Sm) metal doped ZnO photocatalysts for degradation of Congo-Red dye: Synthesis, characterization and kinetic studies	2019	4.865	Journal of Environmental Management	239			225	234		1	Article
9	Alexa I.F., Ignat M., Popovici R.F., Timpu D., Popovici E.	In vitro controlled release of antihypertensive drugs intercalated into unmodified SBA-15 and MgO modified SBA-15 matrices	2012	4.213	International Journal of Pharmaceutics	436	2-Jan		111	119		32	Article



10	Alexa I.F., Pastravanu C.G., Ignat M. *, Popovici E.	A comparative study on long-term MTX controlled release from intercalated nanocomposites for nanomedicine applications	2013	3.973	Colloids and Surfaces B: Biointerfaces	106			135	139		11	Article
11	Rezlescu N., Rezlescu E., Dorin Popa P., Doroftei C., Ignat M.	Some nanograined ferrites and perovskites for catalytic combustion of acetone at low temperature	2015	3.45	Ceramics International	41	3		4430	4437		20	Article
12	Rezlescu N., Rezlescu E., Popa P.D., Doroftei C., Ignat M.	Nanostructured GdAlO ₃ perovskite, a new possible catalyst for combustion of volatile organic compounds	2013	3.442	Journal of Materials Science	48	12		4297	4304		18	Article
13	Feraru S., Samoila P., Borhan A.I., Ignat M., Iordan A.R., Palamaru M.N.	Synthesis, characterization of double perovskite Ca ₂ MSbO ₆ (M = Dy, Fe, Cr, Al) materials via sol-gel auto-combustion and their catalytic properties	2013	3.22	Materials Characterization	84			112	119		4	Article



14	Ghiciuc C.M., Strat A.L., Ochiuz L., Lupusoru C.E., Ignat M., Vasile A., Grigorovici A., Stoleriu I., Solcan C.	Inhibition of bcl-2 and cox-2 protein expression after local application of a new carmustine-loaded clinoptilolite-based delivery system in a chemically induced skin cancer model in mice	2017	3.06	Molecules	22	11	## #					Review
15	Iacob M., Stiubianu G., Tugui C., Ursu L., Ignat M., Turta C., Cazacu M.	Goethite nanorods as a cheap and effective filler for siloxane nanocomposite elastomers	2015	3.049	RSC Advances	5	56	####	####			11	Article
16	Iacob M., Cazacu M., Racles C., Ignat M., Cozan V., Sacarescu L., Timpu D., Kajãkovãj M., Botko M., Feher A., Turta C.	Iron-chromium oxide nanoparticles self-assembling into smectic mesophases	2014	3.049	RSC Advances	4	12		6293	6299		10	Article



17	Rezlescu N., Rezlescu E., Popa P.D., Doroftei C., Ignat M.	Partial substitution of manganese with cerium in SrMnO ₃ nano-perovskite catalyst. Effect of the modification on the catalytic combustion of dilute acetone	2016	2.781	Materials Chemistry and Physics	182			332	337		6	Article
18	Rezlescu N., Rezlescu E., Popa P.D., Popovici E., Doroftei C., Ignat M.	Preparation and characterization of spinel-type MeFe ₂ O ₄ (Me = Cu, Cd, Ni and Zn) for catalyst applications	2013	2.781	Materials Chemistry and Physics	137	3		922	927		35	Article
19	FortunĂf M.-E., Vasilache V., Ignat M., Silion M., Vicol T., PatraĂf X., Miron I., Lobiuc A.	Elemental and macromolecular modifications in Triticum aestivum L. plantlets under different cultivation conditions	2018	2.776	PLoS ONE	13	8	e0202441					Article



20	Ignat M. *, Rotaru R., Samoila P., Sacaescu L., Timpu D., Harabagiu V.	Relationship between the component synthesis order of zinc ferriteâ€ˆtitania nanocomposites and their performances as visible light-driven photocatalysts for relevant organic pollutant degradation	201 8	2.366	Comptes Rendus Chimie	21	4- M ar		263	269		1	Article
21	Ignat M. *, Samoila P., Coromelci C., Sacaescu L., Asaftei I., Harabagiu V., Miron C.	Plasma generation in liquid as a new efficient synthesis approach of titaniaâ€ˆzinc ferrite nano(photo)catalyst	201 8	2.366	Comptes Rendus Chimie	21	4- M ar		310	317			Article
22	Stefanache A., Ignat M., Peptu C.A., Diaconu A., Stoleriu I., Ochiuz L.	Development of a prolonged-release drug delivery system with magnolol loaded in amino- functionalized mesoporous silica	201 7	2.217	Applied Sciences (Switzerlan d)	7	3	23 7				2	Article
23	Rezlescu N., Rezlescu E., Popa P.D., Doroftei C., Ignat M.	Comparative study between catalyst properties of simple spinel ferrite powders prepared by self- combustion route	201 3	1.94	Romanian Reports in Physics	65	4		1348	1356		14	Article



24	FortunĂf M.E., Ignat M. *, Asandulesa M., Rotaru R., Pricop L., Harabagiu V.	Improved Physico-chemical Properties of Mesoporous Carbon by Functionalization with Aminopropyl-polydimethylsiloxane (AP-PDMS)	2018	1.637	Journal of Inorganic and Organometallic Polymers and Materials	28	6		2275	2287		1	Article
25	Ignat M. *, Coromelci C., Popovici E.	Tio2-coated ordered mesoporous carbon for phenol photodegradation	2012	1.605	Revista de Chimie	63	4		358	361		2	Article
26	Ignat M. *, Alexandroaei M., Lungu N.C.	The removal of Zn2+ ions from groundwater using hydroxyapatite nanoparticles	2011	1.605	Revista de Chimie	62	5		518	521		8	Article
27	Ignat M. *, Samoila P., Cojocaru C., Sacarescu L., Harabagiu V.	Novel Synthesis Route for Chitosan-Coated Zinc Ferrite Nanoparticles as Potential Sorbents for Wastewater Treatment	2016	1.431	Chemical Engineering Communications	203	12		1591	1599		7	Article
28	Ignat M. *, Fortuna M.E., Sacarescu L., Zaltariov M.-F., Harabagiu V.	Pnepam-functionalized mesoporous carbon for the adsorption of vitamin B2	2015	1.186	Environmental Engineering and Management Journal	14	3	A014	607	613		4	Article



29	Vasile A., Ignat M. *, Zaltariov M.F., Sacarescu L., Stoleriu I., Draganescu D., Dumitras M., Ochiuz L.	Development of new bexarotene-loaded mesoporous silica systems for topical pharmaceutical formulations	201 8	1.076	Acta Chimica Slovenica	65	1		97	107		4	Article
30	Ignat M. *, Meynen V., Cool P., Harabagiu V.	Surface chemistry - The key-property of templated mesoporous carbons for sorption	201 4	0.395	Revue Roumaine de Chimie	59	7- Ju n		593	597		1	Article

112.38

FIC

5

Factori calculati

N_{max}

30

FIC_{AP}

37.911

INFORMATII SUPLIMENTARE

1 Granturi/proiecte nationale/internationale, membru/director de proiect

- 1) Membru in comitetul de management al cctiunii COST CA18220, *European network of FURan based chemicals and materials FOR a Sustainable development (FUR4Sustain)*



- 2) PN-III-P1-1.1-TE-2016-0805, "InnMESO-nonSi / Extinderea orizonturilor sintezei inovative a materialelor mezo-poroase/structurate ne-silicioase durabile cu functionalitati avansate pentru aplicatii de inalta performanta" (450.000 lei) (Director de proiect Maria Ignat)
- 3) PN-II-RU-PD-2012-3-0357, "Polymer coated ordered mesoporous carbons with multifunctional properties", 2013-2015, CNCS – UEFISCDI, 300 000 RON (Director Ignat Maria)
- 4) PNII-PT-PCCA-2013-4-2024, "Innovative topical formulations for skin-directed therapy of cutaneous T-cell lymphoma", program PARTENERIATE IN DOMENII PRIORITARE, 2014-2016, 862 500 RON (Director Vasile Aurelia)
- 5) PNII-PT-PCCA-2013-4-0656, STHMOWTB, contract nr. 59/01.07.2014, "Monitorizarea integritatii structurale si autorepararea palelor de turbine eoliene si a altor structuri din compozite inteligente", 2014-2016, (Director Adriana Savin)
- 6) PN-II-ID-PCE-2011-3-0453 „NEW NANOSCTRUCTURED OXIDE MATERIALS, FERRITES AND PEROVSKITES, FOR THE CATALYTIC COMBUSTION OF SOME GASES IN LOW CONCENTRATIONS", program IDEAS, 1 291 156 RON (Director Rezlescu Nicolae)
- 7) CEEX No.1/S1/2005 Project, MATNANTECH, 2005-2008, Al. I. Cuza University of Iasi, Romania (1 500 000 RON) (Director Popovici Evelini)
- 8) "Soot Sensors for a Healthy Environment" – ERA-NET Project MNT/7/011/2008, Al. I. Cuza University of Iasi, Romania (106.000 euro) (Director Popovici Evelini)
- 9) "Soot Sensors for a Healthy Environment" – ERA-NET Project MNT 7-028/2010, Al. I. Cuza University of Iasi, Romania (20.000 euro) (Director Lutic Doina)
- 10) "Synthesis and structure of nanooxides used for degradation of organics from waste waters", Protocol no. 4178-4-2011/2013, Topic No. 04-4-1069-2009/2014, IUCN-DUBNA, 2013, 4100 euro (Responsabil Ignat Maria)
- 11) "Polymer enhancing photoactivity of mesoporous catalysts making them visible light sensitive", Project No. 55, Protocol no. 4315-4-14/14, Topic No. 04-4-1069-2009/2014, IUCN-DUBNA, 2014, 1400 euro (Responsabil Ignat Maria)
- 12) "Semiconductor oxide nanoarchitectures for the "green" removal of non-biodegradable pollutants", Project No. 56, Protocol no. 4315-4-14/14, Topic No. 04-4-1069-2009/2014, IUCN-DUBNA, 2014, 1400 euro (Responsabil Ignat Maria)
- 13) "Temperature effect on the textural, structural and morphological properties of mesoporous carbon", Project No. 69, Theme 04-4-1121-2015/2017, IUCN-DUBNA, 2015, 1800 euro (Responsabil Ignat Maria)
- 14) "Easy and rapid synthesis of TiO₂-mesoporous carbon composites involving microwaves", Project No 70, Theme 04-4-1121-2015/2017, IUCN-DUBNA, 2015, 1800 euro (Responsabil Ignat Maria)



- 15) "Rare earth modified ferrite nanoparticles coated with chitosan for improved ion sorption property from polluted waters and their quick separation in external magnetic field", nr. tema 04-4-1121-2015/2020, pozitia 84 din Ordinul IUCN nr. 322/21.05.2018 (2200 \$) (Responsabil de proiect Maria Ignat)
- 16) "Tuning templated mesoporous carbon properties in one pot synthesis involving various surfactants", nr. tema 04-4-1121-2015/2020, pozitia 87 din Ordinul IUCN nr nr. 322/21.05.2018 (2100 \$) (Responsabil proiect Maria Ignat)
- 17) "SISTEME NANOTRANSPORTOARE TOPICE PE BAZĂ DE SILICE MEZOPOROASĂ PENTRU TERAPIA LOCALĂ A CANCERULUI CUTANT" (Acronim: NANOSILICA-SKIN), 2016-2018, CCCDI-UEFISCDI, PN-III-P3-3.1-PM-RO-MD-2016-0113 (19680 lei) (Responsabil partener UAIC, Ignat Maria)
- 18) "Sol-Gel Synthesis and Structure of the Titanosilicate Sorbents", Proiect comun AR-FRBCF-2016-2017 in cadrul acordului de colaborare dintre Academia Nationala de stiinte a Republicii Belarus si Academia Romana (Responsabil din partea UAIC, Romania, Ignat Maria)

**2 Cărți publicate sau capitole de carte**

	Numele, prenumele autorilor	Titlul cărții	An publicare	Editura	Recunoaștere CNCS a editurii	Nr. pagini carte/capitol	ISBN	Observatii: carte/capitol carte
1	Samoila Petrisor, Humelnicu Andra Cristina, Ignat Maria, Cojocaru Corneliu, Harabagiu Valeria	“Chitin and Chitosan: Properties and Applications” Capitolul 17: “ <i>Chitin and chitosan for water purification</i> ”	2019	John Willey & Sons Ltd		429-460	978-1-119-45049-8	capitol carte
2	Aurelia Vasile, Alina Maria Tomoiaga, Maria Ignat	Novel Functionalities of Mesoporous Molecular Sieves to Extend their Applications in Emerging Fields book chapter in “Comprehensive Guide for Mesoporous Materials, Volume 2: Analysis and	2015	Nova Science Publishers		28 pag	978-1-63463-991-0	capitol carte



		Functionalization"						
3	Maria Alexandroaei, Maria Ignat	BIOMATERIALE	201 5	Ed. PERFO RMAN TICA	da	193 pag	978-606-685-246- 3	carte
4	Maria Ignat, Evelini Popovici	"Layered Porous Carbons Based on Montmorilonitic Structure" Published in "Synthesis and Characterization of Nanostructured Materials"	201 0	©Macmillian Publishers India Limited, Advanced Research Series, eds. V. Rajendran, B. Hillbrands, K. Saminathan, K.E. Geckeler		411-416	0230-33193-9	capitol carte



5	Roxana Popovici, Maria Ignat, Aurica Farcas, Evelini Popovici, Victor A. Voicu	“New Design of Controlled Captopril- Release System Based on Captopril/Calix[8]arene Inclusion Complex” Published in “Processes and Characterization of advanced Nanosctructured Materials”	201 0	©Macmillian Publishers India Limited, Advanced Research Series, eds. V. Rajendran, B. Hillbrands, N. Meenakshisundaram , K.E. Geckeler		159-164	0230-33199-8	capitol carte
6	Eveline Popovici, Maria Ignat Rudei	IVth Vol.: SPECIAL NANOSTRUCTURED MATERIALS: NANOTUBES	200 9	Ed. DEMIU RG	Recunoscut a CNCS	233	978-973-152-164- 0	carte
7	Ignat M., Farcas A., Vasile A., Popovici E.	"Calixarene-modified multi-wall carbon nanotubes", Studies in Surface Science and Catalysis, book series (Elsevier)	200 8	Elsevier		389-392	978-0-444- 53833-8	capitol carte



3 Cereri de brevet

- 1 Cerere de brevet de invenție RO a 2017 00709, "Procedeu de preparare pentru formulări farmaceutice semisolide topice cu proprietăți de eliberare modificată a substanței active", Ochiuz L., Ghiciuc C.M., Lupusoru E.C., Timofte D.V., Vasile A., Ignat M.
Cerere de brevet de invenție RO a 2017 00710, "Procedeu de preparare a unor sisteme de transport și eliberare modificată a medicamentelor pentru formulări farmaceutice topice specifice terapiei limfomului cutanat cu celule T", Vasile A., Ignat M., Ochiuz L., Ghiciuc C.M., Lupusoru E.C., Timofte D.V.
- 2