

LISTA COMPLETA DE LUCRARI

Lista celor maxim 10 lucrari considerate de candidat a fi cele mai relevante	Publicatii in reviste cotate ISI cu factor de impact
	<ol style="list-style-type: none"> 1. <u>Ignat, M.</u>, Samoila, P., Cojocaru, C., Soreanu, G., Cretescu, I., Harabagiu, V., Porous polymer/inorganic composite matrices as efficient desiccants for air dehumidification (2019) Applied Surface Science, 487, pp. 1189-1197. 2. <u>Ignat, M.</u>, Sacarescu, L., Fortuna, M.E., Cool, P., Harabagiu, V., Effect of synthesis parameters on sorptive properties of glycerol-derived mesoporous carbon (2019) Environmental Engineering and Management Journal, 18 (1), pp. 59-69. 3. <u>Ignat, M.</u>, Rotaru, R., Samoila, P., Sacarescu, L., Timpu, D., Harabagiu, V., Relationship between the component synthesis order of zinc ferrite–titania nanocomposites and their performances as visible light-driven photocatalysts for relevant organic pollutant degradation (2018) Comptes Rendus Chimie, 21 (3-4), pp. 263-269. 4. <u>Ignat, M.</u>, Samoila, P., Coromelci, C., Sacarescu, L., Asaftel, I., Harabagiu, V., Miron, C., Plasma generation in liquid as a new efficient synthesis approach of titania–zinc ferrite nano(photo)catalyst (2018) Comptes Rendus Chimie, 21 (3-4), pp. 310-317. 5. Vasile, A., <u>Ignat, M.</u>, 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 (2018) Acta Chimica Slovenica, 65 (1), pp. 97-107. 6. <u>Ignat, M.</u>, Samoila, P., Cojocaru, C., Sacarescu, L., Harabagiu, V., Novel Synthesis Route for Chitosan-Coated Zinc Ferrite Nanoparticles as Potential Sorbents for Wastewater Treatment (2016) Chemical Engineering Communications, 203 (12), pp. 1591-1599. 7. <u>Ignat, M.</u>, Fortuna, M.E., Sacarescu, L., Zaltariov, M.-F., Harabagiu, V., Nipam-functionalized mesoporous carbon for the adsorption of vitamin B2 (2015) Environmental Engineering and Management Journal, 14 (3), art. no. A014, pp. 607-613. 8. Coromelci-Pastravanu, C., <u>Ignat, M.</u>, Popovici, E., Harabagiu, V., TiO₂-coated mesoporous carbon: Conventional vs. microwave-annealing process (2014) Journal of Hazardous Materials, 278, pp. 382-390. 9. Alexa, I.F., <u>Ignat, M.</u>, 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) International Journal of

	<p>Pharmaceutics, 436 (1-2), pp. 111-119.</p> <p>10. 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) Carbon, 48 (5), pp. 1609-1618.</p>
Teza de doctorat	1. Materiale avansate obtinute prin sinteza in nanoreactoare
Cereri de brevete de inventie	<p>1. Cerere de brevet de inventie RO a 2017 00709, "Procedeu de preparare pentru formulari farmaceutice semisolide topice cu proprietati de eliberare modificata a substantei active", Ochiuz L., Ghiciuc C.M., Lupusoru E.C., Timofte D.V., Vasile A., Ignat M</p> <p>2. Cerere de brevet de inventie RO a 2017 00710, "Procedeu de preparare a unor sisteme de transport si eliberare modificata a medicamentelor pentru formulari farmaceutice topice specifice terapiei limfomului cutanat cu celule T", Vasile A., Ignat M., Ochiuz L., Ghiciuc C.M., Lupusoru E.C., Timofte D.V.</p>
Carti si capitole in carti	<p>1. M. Alexandroaei, M. Ignat, "Biomateriale", Ed. PERFORMANTICA, 2015, ISBN: 978-606-685-246-3, 193 pagini.</p> <p>2. Eveline Popovici, Maria Ignat Rudei "Materiale nanostructurate speciale: Nanotuburi", volumul IV, 2009, Ed. DEMIURG, ISBN: 978-973-152-164-0, 233 pagini</p> <p>3. Samoila Petrisor, Humelnicu Andra Cristina, Ignat Maria, Cojocaru Corneliu, Harabagiu Valeria, Capitolul 17: "Chitin and chitosan for water purification" in cartea "Chitin and Chitosan: Properties and Applications", 2019, John Willey&Sons Ltd, ISBN: 978-1-119-45049-8, paginile capitolului 429-460</p> <p>4. Aurelia Vasile, Alina Maria Tomoiaga, Maria Ignat, "Novel Functionalities of Mesoporous Molecular Sieves to Extend their Applications in Emerging Fields" in cartea "Comprehensive Guide for Mesoporous Materials, Volume 2: Analysis and Functionalization", 2015 Nova Science Publishers, ISBN: 978-1-63463-991-0, 28 pagini</p> <p>5. Maria Ignat, Evelini Popovici, "Layered Porous Carbons Based on Montmorillonitic Structure" in cartea "Synthesis and Characterization of Nanostructured Materials" 2010 ©Macmillian Publishers India Limited, Advanced Research Series, eds. V. Rajendran, B. Hillbrands, K. Saminathan, K.E. Geckeler, ISBN: 0230-33193-9, paginile 411-416</p>

	<p>6. Roxana Popovici, Maria Ignat, Aurica Farcas, Evelini Popovici, Victor A. Voicu “<i>New Design of Controlled Captopril-Release System Based on Captopril/Calix[8]arene Inclusion Complex</i>” in cartea “Processes and Characterization of advanced Nanosctructured Materials” 2010 ©Macmillian Publishers India Limited, Advanced Research Series, eds. V. Rajendran, B. Hillbrands, N. Meenakshisundaram, K.E. Geckeler, ISBN: 0230-33199-8, paginile 159-164</p> <p>7. Ignat M., Farcas A., Vasile A., Popovici E. "Calixarene-modified multi-wall carbon nanotubes", Studies in Surface Science and Catalysis, book series (Elsevier) 2008 Elsevier, ISBN: 978-0-444-53833-8, paginile 389-392</p>
Articole/studii publicate in extenso, in reviste din circuitul stiintific international	<p>1. Vasile, A., Tomoiaga, A.M., Popovici, L.E., Ignat, M., Ochiuz, L., Clinoptilolite-rich rock as novel carrier for some therapeutic agents (2017) Advanced Science Letters, 23 (6), pp. 5869-5872.</p> <p>2. Ignat, M., Vasile, A., Sacarescu, L., Miron, C., Harabagiu, V., Mesoporosity development of TiO₂ nanoparticles depending of applied synthetic method (2017) Advanced Science Letters, 23 (6), pp. 5873-5875.</p>
Articole/studii publicate in extenso, in volumele conferintelor internationale de specialitate	<p>3. Stefanache, A., Tantar, G., Ignat, M., Creteanu, A., Ochiuz, L., Functionalised mesoporous silica nanoparticles as drug carrier (2018) International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 18 (6.1), pp. 227-234.</p> <p>4. Ochiuz, L., Guranda, D., Diug, E., Stefanache, A., Vasile, A., Ignat, M., Formulation and characterization of new modified-release topical antineoplastic products (2018) International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 18 (6.1), pp. 213-218.</p> <p>5. Stefanache, A., Tantar, G., Ignat, M., Creteanu, A., Ochiuz, L., Development of mesoporous silicate nanoparticles as drug carrier for magnolol (2017) International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 17 (61), pp. 111-118.</p> <p>6. Ochiuz, L., Diug, E., Guranda, D., Grigoras, C., Ignat, M., A study on the optimization of structural characteristics of some silicate matrices by amino-functionalization (2017) International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 17 (61), pp. 11-18.</p>

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7. **Ignat, M.**, Sacarescu, L., Cool, P., Harabagiu, V., Glycerol-derived Mesoporous Carbon: N₂-sorption and SAXS Data Evaluation (2015) Materials Today: Proceedings, 2 (6), pp. 3836-3845.
 8. Rezlescu, N., Rezlescu, E., Doroftei, C., Popa, P.D., **Ignat, M.** Semiconducting spinel ferrite powders prepared by self-combustion method for catalyst applications_(2012) Proceedings of the International Semiconductor Conference, CAS, 2, art. no. 6400782, pp. 287-290.
 9. **Ignat, M.**, Pastravanu, C., Popovici, E., Mesoporous carbon pipes-suitable materials for photocatalytic supports (2010) Proceedings of the International Semiconductor Conference, CAS, 2, art. no. 5650615, pp. 379-382.
 10. **Ignat, M.**, Alexa, I., Popovici, E.,_Biomolecules adsorption onto ordered mesoporous carbon_(2010) European Cells and Materials, 20 (SUPPL.3), p. 119.

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