

## Lista de publicații

### Articole ISI:

1. M. Miheț, **G. Blăniță**, M. Dan, L. Barbu-Tudoran, M.D. Lazăr, Pt/UiO-66 nanocomposites as catalysts for CO<sub>2</sub> methanation process, *J Nanosci. Nanotech.* **2019**, 19, 3187-3196.
2. O. Grad, M. Miheț, M. Dan, G. Blăniță, T. Rusu, C. Berghian-Grosan, M.D. Lazăr, Au/reduced graphene oxide composites: eco-friendly preparation method and catalytic applications for formic acid dehydrogenation, *J. Mater. Sci.* **2019**, 54, 6991-7004;
3. D. Lupu, I. Coldea, I. Mișan, M. Lazăr, G. Blăniță, Hydrogen storage potential in MIL-101 at 200K, *Int. J. Hydrogen Energ* **2019**, 44, 12715-12723.
4. C. Voica, M.D. Lazăr, **G. Blăniță**, Purification of Wastewater Using a Highly Porous Metal-Organic Framework and Graphene-like Materials—A Preliminary Study, *Analytical Letts.* **2017**, 50(17), 2772-2785.
5. A. Malouche, **G. Blăniță**, D. Lupu, J. Bourgon, J. Nelayah, C. Zlotea, Hydrogen adsorption in 1 nm Pd clusters confined in MIL-101(Cr), *J. Mater. Chem A* **2017**, 5, 23043-23052.
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9. **G. Blăniță**, M. Mihet, G. Borodi, I. Misan, I. Coldea, D. Lupu, Ball milling and compression effects on hydrogen adsorption by MOF:Pt/carbon mixtures, *Micropor. Mesopor. Mater.* **2015**, 203, 195-201.
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11. **G. Blăniță**, I. Coldea, I. Misan, D. Lupu, Hydrogen cryo-adsorption by hexagonal prism monoliths of MIL-101, *Int. J. Hydrogen Energ* **2014**, 39(30), 17040-17046.
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**Articole non-ISI:**

1. **G. Blăniță**, D. Lazăr, Review of graphene-supported metal nanoparticles as new and efficient heterogeneous catalysts, *Micro and Nanosystems* **2013**, 5(2), 138-146.
2. I. Coldea, G. Popeneciu, D. Lupu, I. Mișan, **G. Blăniță**, O. Ardelean, Investigation of heat and mass transfer process in metal hydride hydrogen storage reactors suitable for a solar powered water pump system, *AIP Conf. Proc.* **2012**, 1425, 61-64.
3. O. Ardelean, **G. Blăniță**, G. Filoti, P. Palade, Hydrogen storage in PrNiIn and related alloys, *Journal of Physics: Conference Series (JPCS)* **2009**, 182, 012045.
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**Brevete acordate:**

1. Inventatori: **G. Blăniță**, O. Ardelean, D. Lupu, E. Surducan, G. Borodi, M. Vlassa, I. Misan, I. Coldea, A.R. Biris, G. Popeneciu, V. Surducan; titular: INCDTIM, *Procedeu de sinteză a structurilor metal-organice prin activare cu microunde*, brevet RO 126343-B1, **2012**.
2. Inventatori: **G. Blăniță**, D.M. Lupu, O.N. Ardelean, M. Lazar, G. Borodi, M. Vlassa, I. Misan, I.D. Coldea, A.R. Biris, G. Popeneciu; titular INCDTIM, *Procedeu de preparare a compozitelor cu structură metal-organică / structură de carbon*, brevet RO 126098-B1, **2013**.
3. Inventatori: **G. Blăniță**, D.M. Lupu, M. Vlassa, A.R. Biriș, I. Mișan, G. Popeneciu, I.D. Coldea, O.N. Ardelean; titular: INCDTIM, *Compozite structuri metal-organice poroase / structuri de carbon pentru stocarea hidrogenului*, brevet RO 125846-B1, **2014**.
4. Inventatori: V. Surducan, E. Surducan, N.I. Gligan, **G. Blăniță**; titular: INCDTIM, *Dispozitiv pentru reducerea pierderilor în rețelele de apă defecte care nu pot fi reparate imediat*, brevet RO 131580-B1, **2018**.

**Cereri de brevet de invenție:**

1. Inventatori: D. Lupu, I. Coldea, I. Mișan, D. Lazăr, G. Borodi, **G. Blăniță**; titular: INCDTIM, *Proces și instalație pentru purificarea structurilor metal-organice*, cerere brevet de invenție A 2016 00665, **21.09.2016**.
2. Inventatori: **G. Blăniță**, D. Lupu, O. Grad, I. Mișan, I. Coldea, D. Lazăr, G. Borodi, M. Dan; titular INCDTIM, *Procedeu de sinteză a structurii metal-organice MIL-101(Cr)*, cerere brevet de invenție A 2017 010027, **5.12.2017**.