

# LISTA DE LUCRĂRI ȘTIINȚIFICE PUBLICATE

## A. ARTICOLELE CELE MAI RELEVANTE

1. E. M. Seftel, P. Cool, A. Lloyd Spetz, D. Lutic Pt-doped Semiconductive Oxides Loaded on Mesoporous SBA-15 for Gas Sensing, *Comptes Rendus Chimie*, 17, p. 717–724, 2014.
2. Elena Mihaela Seftel, Pegie Cool, Anita Lloyd-Spetz, Doina Lutic, Synthesis and characterization of catalytic metal semiconductor-doped siliceous materials with ordered structure for chemical sensing, *Journal of Porous Materials*, 20, p. 1119–1128, 2013.
3. E.M. Seftel, P. Cool, D. Lutic Mg–Al and Zn–Fe layered double hydroxides used for organic species storage and controlled release, *Materials for Science and Engineering C Materials for Biological Applications*, 33, 5071–5078, 2013.
4. Doina Lutic, Michael Strand, Anita Lloyd Spetz, Kristina Buchholt, Eliana Ieva, Per-Olof Käll, Mehri Sanati, Catalytic properties of oxide nanoparticles applied in gas sensors, *Topics in Catalysis*, 45, 1-4, p.105-109, 2007.
5. Doina Lutic, Cristina Coromelci-Pastravanu, Igor Cretescu, Ioannis Poullos, Catalina-Daniela Stan, *Rhodamine G Removal from Wastewaters using Photoactive ZnO – a Parametric Study*, *International Journal of Photoenergy*, Article ID 475131, 8 pagini, doi:10.1155/2012/475131, 2012
6. Didier Tichit, Doina Lutic, Bernard Coq, Robert Durand, Rémi Teissier – The aldol condensation of acetaldehyde and heptanal on hydrotalcite type catalysts, *Journal of Catalysis*, 219 (1), p. 167-175, 2003.
7. Do Trong On, Doina Lutic, Serge Kaliaguine – *An example of mesostructured zeolitic material: UI-TS-1* - *Microporous and Mesoporous Materials*, 44-45, p. 435-444, 2001.
8. Emil Dumitriu, Doina Lutic, Vasile Hulea, Dana Dorohoi, Abdelkrim Azzouz, Elibabeth Colnay, Charles Kappenstein - *Synthesis optimization of chabazite-like SAPO-47 in the presence of sec-butylamine*, *Microporous and Mesoporous Materials*, 31 (1-2), p. 187-193, 1999.
9. Claudia Hristodor, Violeta Copcia, Doina Lutic, Eveline Popovici, *Thermodynamics and kinetics of Pb(II) and Hg(II) ions removal from aqueous solution by Romanian clays*, *Revista de Chimie*, 61(3), p. 285-289, 2010.

## B. TEZA DE DOCTORAT

Studiul sintezei și proprietăților catalitice în reacțiile organice ale sitelor moleculare de tip MeAPO și SAPO

Studies on the synthesis and catalytic properties in organic reactions of the molecular sieves of MeAPO and SAPO types

## C. BREVET DE INVENȚIE

Peter Jozsa, Anita Lloyd-Spetz, Doina Lutic, Mehri Sanati, Jaco Visser, *Method and arrangement for detecting particles*, Patent Number(s): WO2009108091-A1; EP2255178-A1; CN101965511-A; US2011197571-A1, 2009.

## D. CĂRȚI ȘI CAPITOLE DE CARTE

1. Doina Lutic, Vasilica-Ancuta Simion și Igor Cretescu – “*Improving the water management and protection of natural aquatic resources by using cost-effective advanced treatments of effluents based on Fenton reaction*”, capitolul 7 în Current topics, concepts and research priorities in environmental chemistry, vol. III, editor Carmen Zaharia, Editura Universitatii Alexandru Ioan Cuza Iasi, ISBN 978-606-714-062-0, p. 147-164.
2. Doina Lutic, Anita Lloyd Spetz si Mehri Sanati - „*Gas sensors*”, capitolul 15 in „*Synthesis Properties and Applications of Oxide Nanomaterials*”, editori José A. Rodriguez si Marcos Fernández-García, John Wiley & Sons, New York, 2007, p. 411-450 (40 pagini). (<http://eu.wiley.com/WileyCDA/WileyTitle/productCd-047172405X.descCd-tableOfContents.html>), ISBN: 978-0-471-72405-6.
3. E.Dumitriu și Doina Lutic, « *Cataliza: o abordare generală* », Editura «VIE», Iasi, Romania, ISBN 973-85989-7-4, 2002, 380 pagini.
4. Doina Lutic – “*Procese catalitice*”, îndrumar de laborator pentru studenti, Editura “Performantica”, Iasi, 2005, 96 pagini. ISBN 973-730-047-5
5. Eveline Popovici, Maria Alexandroaei și Doina Lutic, “*Merceologie*” – îndrumar de laborator pentru studenti, Editura Universității “A.I.Cuza” Iasi, Romania, 1997, 240 pagini.
6. Gheorghe Duca, Eveline Popovici, Maria Gonța și Doina Lutic, “*Chimie Ecologică*”, îndrumar de laborator pentru studenti, Editura Universității de Stat din Chișinău, Republica Moldova, 1996, 140 pagini.

## E. ARTICOLE/STUDII PUBLICATE IN EXTENSO

### E.1 Alte lucrări științifice cotate ISI

1. Emil Dumitriu, Claude Guimon, Vasile Hulea, Doina Lutic, Ioana Fechete – *Transalkylation of toluene with trimethylbenzenes catalyzed by various AFI catalysts*, Applied Catalysis A:General, 237, p. 211-221, 2002.
2. Saliha Haddoum, Ioana Fechete, Bertrand Donnio, Francois Garin, Doina Lutic, Chems Eddine Chitour, *Fe-TUD-1 for the preferential rupture of the substituted C-C bond of methylcyclopentane (MCP)*, Catalysis Communications 27 p. 141–147 2012.
3. E.Dumitriu, A.Azzouz, H.Kessler și Doina Lutic - *Synthesis, characterization and catalytic activity of SAPO-34 obtained with piperidine as templating agent*, Microporous Materials, 10, p. 1-12, 1997.
4. Philippe Caullet, Angelique Simon-Masseron, Henri Kessler, Emil Dumitriu, Ioana Fechete, Doina Lutic, *The role of acidity of CeH-EMT-type zeolite for catalyzing toluene alkylation with methanol to xylenes*, Revue Roumaine de Chimie, 53(1) p. 55-61, 2008.

5. Emil Dumitriu, Ioana Fechete, Henri Kessler, Philippe Caullet, Doina Lutic, Eric Gautron, *Studies on the acidity and the stability of  $Fe^{3+}$  ions in the framework of (Si,Fe)-MCM-22 zeolite. Selective para-xylene production by toluene disproportionation*, Rev. Roum. Chimie, 53(1), p. 49-54 2008.
6. Elena-Mihaela Seftel, Emiliană Dvininov, Doina Lutic, Eveline Popovici, Calin Ciocoiu - *Synthesis of Hydrotalcite-type Anionic Clays Containing Biomolecules*, Journal of Optoelectronics and Advanced Materials, 7(6), p. 2869, 2005.
7. Ioana Fechete□, Saida Debbih-Boustila, Rima Merkache, Oana Hulea, Liliana Lazar, Doina Lutic, Ion Balasanian, Francois Garin, *MnMCM-48, CoMCM-48 AND CoMnMCM-48 Mesoporous catalysts for the conversion of methylcyclopentane (MCP)*, Environmental Engineering and Management Journal Vol.11, No. 11, 1931-1943, 2012.
8. Doina Lutic, Igor Cretescu, *Detection of Soot Particles Using a Resistive Device Based on Thermophoresis*, Environmental Engineering and Management Journal, Vol.13, No. 9, p. 2253-2259, 2014.
9. Vasilica-Ancuta Simion, Igor Cretescu□, Doina Lutic, Constantin Luca, Ioannis Poullos, *Enhancing the Fenton process by UV light applied in textile wastewater treatment*, Environmental Engineering and Management Journal, Vol.14, No. 3, p.595-600, 2015.

## ***E.2. Lucrări științifice publicate în reviste necotate ISI***

1. Doina Lutic, *Tailoring the Basic and Acid Sites by Thermal Treatments of Mg Al Hydrotalcites for their Use in Aldol Condensation*, Acta Chemica Iași 18, 47-58, 2010.
2. Doina Lutic, *Heterogeneous Acid-Base Catalyzed Aldol Condensation: Acetaldehyde and heptaldehyde on Hydrotalcites. Optimization of Operatory Conditions*, Acta Chemica Iași, 18, 31-46, 2010.
3. Doina Lutic, Joakim Pagels, Robert Bjorklund, Peter Josza, Jaco Visser, Ann Grant, Mats L Johansson, P. Jasko, P.-E. Fägerman, Mehri Sanati, Anita Lloyd Spetz, *Detection of soot applying sensor device with thermophoretic deposition*, Journal of Sensors, p. 1-6, 2010.
4. Gheorghe Nemțoi, Horia Chiriac, Oana Dragoș, Mircea-Odin Apostu, Doina Lutic, *The Voltammetric Characterization of the Electrodeposition of Cobalt, Nickel and Iron on Gold Disk Electrode*, Acta Chemica Iasi, 17, p. 151-168, 2009.
5. Doina Lutic, Vasile Hulea, Bernard Coq, Robert Durand si Didier Tichit, *The aldol condensation of acetaldehyde and heptanal on NiMg(Al)O mixed oxides obtained from LDH precursors*, Progress in Catalysis, vol. 15 (1-2), p. 31-38, 2006.
6. Ioana Fechete, Philippe Caullet, Doina Lutic si Henri Kessler, *Effect of isomorphous substitution in the MWW strucutre on the activity and selectivity in alkylolation of toulene with methanol*, Progress in Catalysis, vol. 15 (1-2), p. 15-22, 2006.
7. Doina Lutic, Vasile Hulea și Emil Dumitriu – *Gas-phase aldol condensation of aldehydes on metal-containing molecular sieves of AFI type*, Progress in Catalysis, vol. 11, nr. 1-2, 2002, p. 29-37.
8. Emil Dumitriu, Abdelkrim Azzouz, Vasile Hulea, Doina Lutic, Dana Dorohoi, Grigore Pop și Ruxandra Bârjega - *An optimization of SAPO-34 synthesis by factorial experiments*, J.Soc.Alger.Chim, 9 (2), 1999.

9. Emil Dumitriu, Abdelkrim Azzouz, Vasile Hulea, Doina Lutic - *Advances in the synthesis of pure aluminophosphate molecular sieves and derivatives*, J.Soc.Alger.Chim., 7(2), p. 221-242, 1997.
10. Emil Dumitriu, Abdelkrim Azzouz, Vasile Hulea, Doina Lutic - *On the sythesis and the catalytic properties of the chabazite-like SAPO, MeAPO and MeAPSO*, Rom. Chem. Quat.Rev., 5(3), 1997, p.165-182.
11. Emil Dumitriu, Abdelkrim Azzouz, Doina Lutic, Dana Dorohoi - *Structure and properties of chabazite-like silicoaluminophosphates*, Supplement of Balkan Physics Letters, 1997, p. 816-819.
12. Claudiu C Pavel, Karin Popa, Nicolae Bilba, Doina Lutic, Alexandru Cecal – *Sorption of Some Radiocations on ETS-10 titanosilicate. Thermodynamic and kinetic considerations*, An. Sci. Univ. Iasi, Secțiunea Chimie, Tom XI, 2003, p. 81-86.
13. Abdelkrim Azzouz, Mohamed Acache, Emil Dumitriu, Doina Lutic, Vasile Hulea - *Etude de l'incorporation de silicium et de magnesium dans les aluminophosphates microporeux de types AFI et AEL*, Bull.Inst.Polit.Iassy, tom XLII (XLVI), seria II, fasc. 3-4, 1996, p. 141-150.
14. Gheorghe Mihaila, Horia C. Barbu, Doina Lutic, Monica Sava - International Symposium "Natural Zeolites - Sofia 1995": "Adsorption of Sulphur Dioxide on Clinoptilolite Volcanic tuff", PENTASOFT Publishers, Sofia, 1995, p. 146-152.
15. Emil Dumitriu, Vasile Hulea, Nicolae Bîlbă, Doina Lutic - *Toluene transalkylation on metal/SAPO-5 catalysts*, An.St.Univ."Al.I.Cuza" Iassy, 1993, p.137-141.

## **F. ARTICOLE/STUDII PUBLICATE IN EXTENSO, ÎN VOLUMELE CONFERINTELOR INTERNAȚIONALE DE SPECIALITATE;**

1. Robert Bjorklund, Mats L. Johansson, Ann Grant, Peter Jozsa, Per-Erik Fägerman, Jaska Paaso, Andreas Larsson, Doina Lutic, Anita Lloyd Spetz, *Resistance Sensor Based on Thermophoresis for Soot in Diesel Exhaust*, 2010 MRS Spring Meeting, San Francisco, California, 2010.

## **G. ALTE LUCRĂRI ȘI CONTRIBUȚII ȘTIINȚIFICE**

### **G.1. Participări la conferințe și simpozioane științifice**

#### **G.1.1. Internaționale**

1. Doina Lutic, Michael Strand, Anita Lloyd-Spetz, Mehri Sanati, *Catalytic properties of oxide nanoparticles applied in gas sensors*, poster la 12<sup>th</sup> Nordic Symposium of Catalysis, Trondheim (Norvegia), mai 2006.
2. Doina Lutic, Michael Strand, Anette Salomonsson, Lars Ojamae, Per-Olof Käll, Anita Lloyd-Spetz, Mehri Sanati – *In<sub>2</sub>O<sub>3</sub> particle films as gate materials for MISiC-capacitor sensors*, poster la The 12<sup>th</sup> Nordic Aerosol Society Symposium, Göteborg (Suedia), noiembrie 2006.
3. Doina Lutic, *Synthesis and Characterization of Microporous and Mesoporous Solids Doped with Noble Metals used in the Formulation of Sensing Materials for Gaseous Species and Particles*, expunere orală la International Workshop on Tailor made Nanomaterials and Applications for Chemical and Biosensors, Universitatea Jadavpur Calcutta (Kolkata), India, martie 2009.
4. Doina Lutic, Elena Mihaela Seftel, Evelini Popovici, Robert Bjorklund, Anita Lloyd-Spetz, *Synthesis and characterization of catalytic siliceous materials with ordered structure for*

*chemical sensors*, poster la ECASIA '09 (13<sup>th</sup> European Conference on Applications of Surface and Interface Analysis, October 18-23, 2009, Antalya (Turcia).

5. Robert Bjorklund, Ann Grant, Peter Jozsa, Matt Johansson, Per-Erik Fägerman, Jaska Paaso, Mike Andersson, Lars Hammarlund, Andreas Larsson, Doina Lutic, Evelini Popovici, Joakim Pagels, Mehri Sanati, Anita Lloyd Spetz, *Resistance Sensor Employing Thermophoresis for Soot in Diesel Exhaust*, The Eighth IEEE Conference on Sensors, New Zealand 2009.
6. Elena-Mihaela Seftel, Doina Lutic, Eveline Popovici, *Synthesis and sensing properties of ZnO–SnO<sub>2</sub> nanocomposites*, EuropaCat IX, Salamanca, Spain, 2009.
7. Doina Lutic, Elena-Mihaela Seftel, Eveline Popovici, Robert Bjorklund, Mike Andersson, Hussam Abdelhamid, Mehri Sanati, Anita Lloyd-Spetz, *Synthesis of Catalytic Materials with Ordered Structure for Chemical Sensors*, EuropaCat IX, Salamanca, Spain, 2009.
8. Doina Lutic, Eveline Popovici, Elena Seftel, Anita Lloyd-Spetz, *Application of Some Micro- and Mesoporous Materials in Gas and Particle Sensing*, 1st International Conference on Multifunctional, Hybrid and Nanomaterials, Tours, France, 2009.
9. Doina Lutic, Maria Ignat, Gina-Dumitrita Mihai, Elena-Mihaela Seftel, Eveline Popovici, Robert Bjorklund, Anita Lloyd Spetz, *Pt-doped Mesoporous Semiconductive Oxides for Gas Sensing*, 1<sup>st</sup> International workshop on Nanostructured Materials for Sorption, Separation and Catalysis, Antwerpen, Belgium, 4-5 Octombrie 2010 (**Best Poster Award**).
10. Robert Bjorklund, Ann Grant, Peter Jozsa, Mats Johansson, Per Erik Fägerman, Jaska. Paaso, Mike Andersson, Lars Hammarlund, Andreas Larsson, Evelini Popovici, Doina Lutic, Joakim Pagels, Mehri Sanati, A. Lloyd Spetz, *Soot sensor based on thermophoresis for high sensitive soot detection in diesel exhausts*, The 13th International Meeting on Chemical Sensors (IMCS13), Perth, Australia, July 2010, Invited talk.
11. Robert Bjorklund, Mats L. Johansson, Ann Grant, Peter Jozsa, Per-Erik Fägerman, Jaska Paaso, Andreas Larsson, Doina Lutic, Anita Lloyd Spetz, *Resistance Sensor Based on Thermophoresis for Soot in Diesel Exhaust*, 2010 MRS Spring Meeting, San Francisco, California, 2010.
12. Ioana Fechete, Saida Boustila-Debbih, François Garin, Liliana Lazar, Doina Lutic, *Propriétés catalytiques des catalyseurs mésoporeux à base de tungstène de symétrie cubique*, JMC 13: 13-emes Journées de la Matière Condensée, Montpellier, France, 27-31 august 2012.
13. Rima Merkache, Ioana Fechete, Francois Garin, Doina Lutic, Liliana Lazar, Mostapha Mamaache, Boutahala Mokhtar, *Conversion de MCP par des nouveaux catalyseurs mésoporeux Fe-KIT-6* JMC 13: 13-emes Journées de la Matière Condensée, Montpellier, France, 27-31 august 2012.
14. Ioana Fechete, Francois Garin, Ion Balasanian, Doina Lutic, Liliana Lazar, Dominique Bazin *Mesoporous molybdenosilicate catalysts for the conversion of methylcyclopentane (MCP)*, poster la 8<sup>th</sup> International Mesosstructured Materials Symposium Toward Practical Applications: Challenges and Breakthrough, Awaji Island, Hyogo, Japan, 20-24 mai 2013, Website; <http://www.imms2013.iis.u-tokyo.ac.jp/>
15. Ioana Fechete, Francois Garin, Ion Balasanian, Liliana Lazar, Doina Lutic, Dominique Bazin, *Fe-MCM-41 for the non selective mechanism of ring opening of methylcyclopentane*, poster la 8<sup>th</sup> International Mesosstructured Materials Symposium Toward Practical Applications: Challenges and Breakthrough, Awaji Island, Hyogo, Japan, 20-24 mai 2013, Website; <http://www.imms2013.iis.u-tokyo.ac.jp/>

16. Ioana Fechete, Oana Hulea, Rima Merkache, Saida Debbih-Boustila, François Garin, Doina Lutic, Dominique Bazin, *Kinetic studies of methylcyclopentane ring opening on Fe-MCM-48* poster la Evolution and Revolution International Conference on Advanced Complex Inorganic Nanomaterials (ACIN 2013), Namur, Belgia, 15-19 iulie 2013, [http: www.fundp.ac.be/acin2013](http://www.fundp.ac.be/acin2013)
17. Ioana Fechete, Oana Hulea, Rima Merkache, Saida Debbih-Boustila, François Garin, Doina Lutic, Dominique Bazin *Mesoporous molybdeno-tungsteno-silicate catalysts for the conversion of methylcyclopentane (MCP)*, poster la Evolution and Revolution International Conference on Advanced Complex Inorganic Nanomaterials (ACIN 2013), Namur, Belgia, 15-19 iulie 2013, [http: www.fundp.ac.be/acin2013](http://www.fundp.ac.be/acin2013).
18. Rima Merkache, Ioana Fechete, A. Boulaoued, Doina Lutic, Angelique Simon-Masseron, P. Turek, Francois Garin, *WO<sub>3</sub>/EMT pour la transformation des cycles naphthéniques sous pression atmosphérique en hydrogène*, Reunion du GFZ- Groupe Français des Zéolithes, Semour-en-Auxois, France, 27-29 martie 2013.
19. Doina Lutic, Igor Crețescu *Detection of Soot Particles using a Resistive Sensor Based on Thermophoresis*, 7<sup>th</sup> International Conference “Environmental Engineering and Management”, 18-21 septembrie 2013, Viena, Austria.

#### ***G.1.1. Națională***

1. E.Dumitriu, A.Azzouz, Doina Lutic, H.Kessler, V.Hulea, *New templates for the synthesis of SAPO-34*, The 4<sup>th</sup> Symposium The Zeolites in the Modern Technology, Iasi, 1995.
2. E.Dumitriu, A.Azzouz, V.Hulea, S.Oprea, Doina Lutic, *Synthesis and characterization of SAPO-34*, The 4<sup>th</sup> National Catalysis Symposium, Bucharest, 1995.
3. Doina Lutic, Emil Dumitriu, Nicolae Bîlbă, Vasile Hulea, *Transalkylation of toluene with the trimethylbenzenes on SAPO-5 catalysts modified with transition metals*, The 4<sup>th</sup> Symposium The Zeolites in the Modern Technology, Iasi, 1995.
4. Emil Dumitriu, Abdelkrim Azzouz, Doina Lutic, Dana Dorohoi – *Properties of chabazite-like aluminophosphates*, The Third General Conference of the Balkan Physical Union, Cluj Napoca, Romania, 1997.
5. A.Azzouz, Doina Lutic, Dana Dorohoi, Vasile Hulea, Grigore Pop, Ruxandra Birjega si Emil Dumitriu, *Synthesis of chabazite-like silicoaluminophosphates*, The 5<sup>th</sup> National Catalysis Symposium, Bucharest, 1997.
6. Doina Lutic, Didier Tichit, Bernard Coq, Robert Durand, Remi Tessier – « *The condensation between acetaldehyde and heptanal on basic solid catalysts*», Zilele Științifice ale Universității ”Al.I.Cuza” din Iași, octombrie 2001.
7. Doina Lutic, Didier Tichit, Bernard Coq, Robert Durand, Remi Teissier – « *Model Reaction for the Synthesis on long-chain hydrocarbon linear aldehydes by heterogeneous catalytic reactions* », at the Simpozionul Jubiliar dedicat celei de a 90-a Aniversare a Facultății de Chimie Industrială, Iasi, 13-14 noiembrie 2002.
8. Elena-Mihaela Enculesi, Doina Lutic, Eveline Popovici, *Contribuții privind sinteza și caracterizarea unor argile anionice*, Zilele Științifice ale Universității ”Al.I.Cuza” din Iași, octombrie 2004.
9. Doina Lutic, Didier Tichit, Vasile Hulea - *Condensation aldolique en catalyse heterogene sur des sites basiques : alternative « verte » dans la synthese organique*, Al treilea Colocviu Franco-Roman de Chimie Aplicata, Septembrie 2004 , Slanic-Moldova, Romania.

10. Claudia Cobzaru, Doina Lutic, Ioana Fechete, Spiridon Oprea, Emil Dumitriu, Vasile Hulea - *Les tuffs volcaniques a base de clinoptilolite : potentiels catalyseurs pour la reaction de condensation aldolique*, Al treilea Colocviu Franco-Roman de Chimie Aplicata, Septembrie 2004 , Slanic-Moldova, Romania.
11. Doina Lutic, Mehri Sanati, Anita Lloyd-Spetz, *Contributia reactiilor catalitice in functionarea senzorilor chimici pentru gaze*, (Conferinta) Zilele Universitatii Al. I.Cuza Iasi, 28-29 octombrie 2006.
12. Doina Lutic, Mehri Sanati, Anita Lloyd-Spetz, The use of oxide-type solids in chemical sensor formulations (conferință), Nanostructured Multifunctional Materials Conference NMM 07, Sinaia, octombrie 2007.
13. Doina Lutic, Anita Lloyd Spetz, Mehri Sanati, Gheorghe Nemtoi, Igor Cretescu, *Sinteza de nanoparticule de oxid de indiu dopate cu metale nobile utilizate în fabricarea senzorilor chimici pentru gaze*, **Medalia de argint la Salonul de Inventica, Iasi, 2008.**
14. Doina Lutic, Eveline Popovici, Elena-Mihaela Seftel, *Exemple de utilizare a materialelor micro- și mezoporoase în formularea senzorilor chimici*, Zilele Științifice ale Universității "Al.I.Cuza" din Iași, octombrie 2008.
15. Doina Lutic, Evelini Popovici, Anita Lloyd Spetz, Mehri Sanati, Peter Josza, *Metodă de detecție a particulelor submicronice de funingine prin folosirea unor dispozitive de tip rezistiv miniaturizate*, Zilele Științifice ale Universității "Al.I.Cuza" din Iași, octombrie 2008.
16. Elena-Mihaela Seftel, Gina-Dumitrita Mihai, Doina Lutic, Anita Lloyd-Spetz, Evelini Popovici, *Synthesis and characterization of ordered mesoporous materials doped with Au/Pt nanoparticles for chemical sensors*, Zilele Științifice ale Universității "Al.I.Cuza" din Iași, octombrie 2008.
17. Doina Lutic, *Soot sensing layers*, (conferință) 2<sup>nd</sup> Nanostructured Multifunctional Materials Conference NMM 07, Iași, 4-5 noiembrie 2010.
18. Ioana Fechete, Saida Debbih-Boustila, Oana Hulea, Liliana Lazar, Doina Lutic, Ion Balasanian, Francois Garin, *MnMCM-48, CoMCM-48 and CoMnMCM-48 mesoporous catalysts for the conversion of methylcyclopentane (MCP)*, International Conference Centenary of Education in Chemical Engineering, Iași, 28-30 November, 2012.
19. Doina Lutic, Cristina Coromelci-Pastravanu, Igor Crețescu, *Optimization Study for the Photocatalytic Degradation of Rhodamine 6G Dye Using Doped Titania*, Zilele Științifice ale Universității "Al.I.Cuza" din Iași, octombrie 2013.

### **G.1.2. Granturi**

1. MNT ERA Net, Soot Sens II -Soot Sensors for a healthy environment, Proiect transnational nr. 09044/2010, MNT Era Net nr. 7-028/2010, **director / responsabil** din partea Universitatii Al. I. Cuza, 2010. (84000 lei ~ 20 000 euro)
2. Bilateral Project Romania – Greece nr. 576/2012, Oxidarea fotocatalitică folosind lumina solară a soluțiilor de colorant în medii apoase (Solar Photocatalytic Oxidation and Decolorization of Dye Solutions in Aqueous Media (PHOTODYEOUT), **director**, 2012-2013. (22750 lei ~ 4930 euro)
3. MNT ERA Net, Soot Sens-Soot Sensors for a healthy environment, Proiect, nr. 07149, MNT Era net 7-011/08.09.2008, **membru**, 2008-2009, (director Prof. Evelini Popovici) (444000 lei ~ 120000 euro)

4. Project CEEEX nr.1/S1/2005 Porous oxidic multifunctional materials for the removal and degradation of priority dangerous substances from wastewaters, **membru**, 2007-2008. (director Prof. Evelini Popovici)
5. Project CNCSIS nr. 1450, Synthesis of new solids with nanometric scale porosity useful for the ecologic processes of wastewaters rehabilitation, **membru**, 2005-2006. (director Prof. Evelini Popovici) (1500000 lei ~416666 euro)
6. Detection systems based on metallic multilayer nanowires for biomedical applications, Project PNII-PC4 11-072.2.1, **membru**, 2007-2010. (director Prof. Gheorghe Nemțoi) (55000 euro)