

Informații suplimentare

Lista lucrari elaborate/publicate

Articole cotate I.S.I publicate sau acceptate spre publicare:

1. „High Speed Imaging of Dusty Plasmas”, C. M. Ticos, D. Toader, L. M. Luiza, *N. Banu*, A. Scurtu, Submitted to Journal of plasma physics; Factor de impact: 0.944
2. *“Thermoionic Vacuum Arc Deposition of Ni-Al Alloys, Electrochemical Properties with Prospective Investigation in Fuel Cells”*, A. M. Trefilov, E. C. Serban, *N. Banu*, C.Lungu, I. Jecu, V. Zeroschi, A. Andronie-Balan, S.M. Iordache, S. Stamatina, I. Stamatina; (Submitted to JOAM)
3. „Pt supported on nanosized oxides as electrocatalyst in Polymer Electrolyte Fuel Cells”, *N. Banu*, E.C. Serban, A. Marinescu, A. Trefilov, A. Andronie, A. Cucu, S.N. Stamatina, M. Ceaus, S. Iordache, C. Ceaus, I. Stamatina, Optoelectronics and Advanced Materials-Rapid Communications, Vol. 5, No. 11, November 2011, p. 1186 - 1189; Factor de impact: 0.477
4. “Electrochemical activity of Nickel Raney nanoparticles with applications in fuel cells” A. M. Trefilov, A. Cucu, S. Iordache, E. C. Serban, *N. Banu*, A. Marinescu, A. Andronie, C. Ceaus, S. Stamatina, M. Ceaus, A. Emandi, G. Nan, I. Stamatina, Optoelectronics and Advanced Materials-Rapid Communications, Volume: 4 Issue: 11 Pages: 1733-1735, 2010, Factor de impact: 0.451
5. „Cathalyst FeNi supported on nanometric mezoporous oxide for PEMFC applications”, E.C. Serban, *N. Banu*, A. Marinescu, A. Trefilov, A. Andronie, A. Cucu, S.N. Stamatina, M. Ceaus, S. Iordache, C. Ceaus, I. Stamatina, Optoelectronics and Advanced Materials-Rapid Communications, Vol. 5, No. 11, November 2011, p. 1248 – 1251, Factor de impact: 0.477

Participari la conferinte internationale (POSTERE):

1. *N. Banu*, L.M. Munteanu, A. Scurtu, D. Ursescu, R. Dabu, M. Toma, D. Martin, C. M. Ticos, „Petawatt laser facilities in Romania: CETAL and ELI-NP”, **2nd Dresden Exchange on Laser-Plasma Interaction Theory, ENLITE April 16-20, 2012, Dresden, Germany (P01)**
2. *N. Banu*, E.C. Serban, A. Ducu, A. Trefilov, S-M. Iordache, L. Popovici, “Electrochemical activity of different noble metal catalysts supported on carbonic substrate”, **The 3rd edition of International Student Conference on Photonics (ISCP 2012), May 8-11, 2012, Sinaia, Romania**
3. A. M. I. Trefilov, C. E. Serban, *N. Banu*, A. Cucu, A. Balan, S-M. Iordache, S.N. Stamatina, I. Stamatina, „Raney Nickel: Electrochemical Activity, Application In Fuel Cell”, **12th International Balkan Workshop on Applied Physiscs, July 7-9, 2011, Constanța, Romania (P8, S5)**
4. *N. Banu*, E.C. Serban, A. Marinescu, A. Cucu, A. Balan, S-M. Iordache, S.N. Stamatina, I. Stamatina, „Photocatalytic decomposition of alcohols solutions by TiO₂ nanoparticles coated on metal”, **12th International Balkan Workshop on Applied Physiscs, July 7-9, 2011, Constanța, Romania (P20, S5)**
5. E. C. Serban, *N. Banu*, A. Marinescu, A. Cucu, A. Balan, S-M. Iordache, S.N. Stamatina and I. Stamatina, „The influence of natural dyes on DSSC efficiency”, **12th International**

Balkan Workshop on Applied Physics, July 7-9, 2011, Constanța, Romania (P21, S5)

6. E. C. Serban, N. Banu, A. Marinescu, A. Cucu, A. Balan, S-M. Iordache, S.N. Stamatina, I. Stamatina, Evaluating the potential of TiO₂ Photocatalysis systems coated with metals, **12th International Balkan Workshop on Applied Physics, July 7-9, 2011, Constanța, Romania (P22, S5)**
7. N. Banu, E.C. Serban, A. Trefilov, A. Marinescu, A. L. Simion, O. Cinteza, A. Andronie, S. Iordache C. Ceaus, S.N. Stamatina, A. Cucu, C. Luculescu, I. Stamatina, „Pt supported on nanosized oxides as electrocatalyst in Polymer Electrolyte Fuel Cells”, **11th International Balkan Workshop on Applied Physics, July 7-9, 2010, Constanța, Romania (P4, S5)**
8. E. C. Serban, A. C. Marinescu, N. Banu, A. M. Trefilov, A. L. Simion, A. Andronie, A. Cucu, S. Stamatina, S. M. Iordache, C. Ceaus, C. Luculescu, O. Cinteza, I. Stamatina, „Cathalyst FeNi supported on nanometric mezoporous oxide for PEMFC applications”, **11th International Balkan Workshop on Applied Physics, July 7-9, 2010, Constanța, Romania (P32, S5)**
9. A. M. I. Trefilov, C. E. Serban, N. Banu, A. C. Marinescu, A. L. Simion, O. Cinteza, A. Andronie, S. Iordache, C. Ceaus, S. Stamatina, A. Cucu, C. Luculescu, I. Stamatina, “Electrochemical activity of Nickel Raney nanoparticles with applications in fuel cells”, **11th International Balkan Workshop on Applied Physics, July 7-9, 2010, Constanța, Romania (P28, S5)**

Participari la conferinte nationale (Prezentari orale):

1. N. Banu, A-M Ducu, E. C. Serban, A. M. I. Trefilov, S-M. Iordache L. Popovici, C. Ceaus, A. Cucu, C. Luculescu, I. Stamatina, „Electrochemical Activity of Iron and Iron-Carbon compounds. Applications in Fuel Cells”, **Bucharest University Faculty of Physics 2012 Meeting, Bucuresti, Romania (Section 6-3)**
2. A-M Ducu, S-M. Iordache, C Ceaus, L Popovici, N. Banu, C. Serban, A. Cucu, A. Trefilov, I. Stamatina, „Electrochemical characterization of Cu and Cu-Fe nanoparticles, used as catalyst in fuel cells”, **Bucharest University Faculty of Physics 2012 Meeting, Bucuresti, Romania(Section 6-5)**
3. E. C. Serban, N. Banu, A-M Ducu, A. M. I. Trefilov, A. Cucu, A. Balan, S-M. Iordache, S. Stamatina, I. Stamatina, Synthesis and characterization of Co- catalyst supported on nanosized carbon for PEMFC applications, ”, **Bucharest University Faculty of Physics 2012 Meeting, Bucuresti, Romania(Section 6-11)**
4. A. M. I. Trefilov, I. Jepu, V. Zaroschi, C. P. Lungu, S. M. Iordache, A. Cucu, A. M. Ducu, C. E. Serban, N. Banu, L. Popovici, I. Stamatina, „Electrochemical Activity of Ni and Ni-Al Alloys for Applications in Fuel Cells”, **Bucharest University Faculty of Physics 2012 Meeting, Bucuresti, Romania(Section 6-4)**
5. M. I. Trefilov, N. Banu, E. C. Serban, A. Marinescu, A. Cucu, S. Iordache, A. Balan, S. Stamatina, I. Stamatina, *Skeletal Raney Nickel Alloy: applications in fuel cells*, Bucharest University, Faculty of Physics, **2011 Annual Scientific Conference, June 2011; (Section 7-7.19)**
6. A. Andronie-Balan, I. Stamatina, St. Antohe, N. Banu, Cristina Serban, S-M. Iordache, A. Cucu, S. Stamatina, C. Ceaus, M. Ceaus, „Thermal properties of polypyrrole modified perfluorosulfonated membranes”, Bucharest University, Faculty of Physics, **2011 Annual Scientific Conference, June 2011; (Section 7-7.18.)**