

Rezultatele activității de Cercetare Dezvoltare

7.8 Comunicări științifice prezentate la conferințe internaționale

1. **“Nanostructured Microcarriers Based on Silicon for Drug Delivery”**, I. Kleps, A. Bragaru, T. Ignat, M. Miu, M. Simion, F. Craciunoiu, M. Danila, E. Tirifon, R. Anghel, A. Popovici, S. Cinca, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 151-154.
2. **“Laser Scanning Calibration for Porous Silicon Substrate Useful in Microarray Applications”**, Monica Simion, Irina Kleps, Lavinia Ruta, Lucia Lazar, Adina Bragaru, Mihaela Miu, Ion Baciuc, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 147-150.
3. **“Polyelectrolytes Multilayers Membrane for Different Application”**, A. Bragaru, M. Miu, M. Simion, Ti. Ignat, I. Kleps, V. Schiopu, M. Purica, F. Craciunoiu, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 159-163.
4. **“Buried Hot Wire Anemometer for Fluid Velocity Measurements”**, A. Avram, L.Y. Cheong, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 271-274.
5. **“Reactive Ion Etching for Patterning High Aspect Ratio and Nanoscale Features”**, M. Avram, A. Avram, F. Comanescu, A.M. Popescu, C. Voitincu, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania pp. 253-256.
6. **“Characterization of Defects Generated During Reactive Ion Etching”**, M. Avram, A. Avram, M. Purica, A.M. Popescu, C. Voitincu, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 249-252.
7. **“On Manipulation and Detection of Biomolecules Using Magnetic Carriers”**, M. Volmer, M. Avram, A. M. Avram, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania pp. 155-158.
8. **“Reliable Electrical Interconnection for Fluidic Glass Bio-Chip to Macro World”**, N. Dumbravescu, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 241-244.
9. **“Sensor System for on-Line Monitoring of Cell Cultures”**, Carmen Moldovan, Rodica Iosub, Radu Cornel, Eric Moore, Anna Paschero, Walter Messina, Danilo Demarchi, Cecilia Codreanu, Daniel Necula, Adrian Dinescu, Bogdan Firtat, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 263-267.
10. **“Electrochemical Processes and Characterization of Doped TiO₂ Thin Films; Relationship Between Preparation Conditions And Nanostructure”**, E. Manea, L. Staicu, A. Popescu, A.C. Obreja, A. Dinescu, V. Schiopu, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 163-166.
11. **“Extreme Environment Temperature Sensor Based on Silicon Carbide Schottky Diode”**, I. Josan, C. Boianceanu, G. Brezeanu, V. Obreja, M. Avram, D. Puscasu, A. Ioncea, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 2, 12–14 October, 2009, Sinaia, Romania, pp. 525-528.
12. **“Technology of A Nanowire Biofet Device for Biomolecules Detection”**, Cl. Moldovan, A. Dinescu, E. Manea, R. Iosub, C. Brasoveanu, B. Firtat, C. Moldovan, M. Ion, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 2, 12–14 October, 2009, Sinaia, Romania, pp. 549-552.
13. **“Optimization Issues Regarding Microcantilever Design and Fabrication”**, M. Ion, C. Moldovan, R. Iosub, C. Brasoveanu, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 2, 12–14 October, 2009, Sinaia, Romania, pp. 545-548.

14. **"Design And Technological Characterization Aspects of A Gluco-Detector Biofet"**, C. Ravariu, C. Podaru, E. Manea, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 2, 12–14 October, 2009, Sinaia, Romania, pp. 281-284.
15. **"Silicon Cantilever Beam Micromachining and Structure Geometry Characterization"**, G. Ionascu, E. Manea, C.D. Comeaga, N. Alexandrescu, I. Cernica, L. Bogatu, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 237-240.
16. **"Integrated Micro Heat Sink Based on Microchannels Microfabricated Onto Silicon"**, Antonie Coraci, E. Iancu, Ioana Stanca Magdalena, C. Parvulescu, O. Corici, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 223-226.
17. **"Design of an Optical Switch Based on Electrostatic Actuation of A Movable Fiber"**, Mihai Kusko, Rodica Voicu, Catalin Tibeica, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 181-184.
18. **"Process Development for Micro–Nano Patterning of Metallic Layers With Applications for Photonic Structures"**, Roxana Rebigan, Adrian Dinescu, Cristian Kusko, Florin Comanescu, Dana Cristea, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 193–197.
19. **"SNOM Measurements on Metallic Nano-Structures"**, Cristian Kusko, Adrian Dinescu, Roxana Rebigan, Mihai Kusko, Dana Cristea, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 197–200.
20. **"Characterization of Magnetic Nanoparticles Functionalized With Albumin for Biological Applications"**, L.Draghiciu, L.Eftime, R.Muller, M.Popescu, A.Herghelegiu, V.Schiopu, M. Danila, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 167-170.
21. **"Self Assembled Monolayer of Ethanthiol on Gold Surfaces By Quartz Crystal Microbalance"** Gh.V. Cimpoca, I. D. Dulama, C. Radulescu, I. Bancuta, M. Cimpoca, I. Cernica, V. Schiopu, M. Danila, R. Gavrilă, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 135-138.
22. **"Investigation of Electrical Properties of Carbon Nanotubes"**, M.L. Ciurea, I. Stavarache, A.-M. Lepadatu, V. Iancu, M. Dragoman, G. Konstantinidis, R. Buiculescu, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 121-125.
23. **"About Using Combined Stresses for Reliability Testing of Microsystems"**, M. Bazu, L. Galateanu and V. Ilian, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 233-236.
24. **"Realisation Of Microfluidic Components Using The Casting Replication Method"**, I. Stanciu, P. Obreja, L. Eftime, D. Cristea, R. Muller, D. Dascalu, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 227-230.
25. **"Photoresist Films Patterning At 355nm"**, V. Damian, I. Apostol, R. Muller, L. Eftime, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 1, 12–14 October, 2009, Sinaia, Romania, pp. 245-248.
26. **"GHz FBAR and SAW Resonators Anufactured on GaN/Si"**, A. Muller, D. Neculoiu, G. Konstantinidis, D. Vasilache, A. Dinescu, A. Stavriniadis, G. Deligiorgis, M. Danila, K. Tzagaraki, A. Cismaru, C. Buiculescu, I. Petrini, A.A. Muller and D. Dascalu, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 2, 12–14 October, 2009, Sinaia, Romania, pp. 319-323.
27. **"Electromagnetic Modelling and Design of 77 GHz Antennas In LTCC Technology"**, D. Neculoiu, S.I. Ene, A.A. Muller, C. Buiculescu, A. Muller, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 2, 12–14 October, 2009, Sinaia, Romania, pp. 314-345.

28. **"Design Flow for Asige Bicmos Based Power Amplifier"**, M. Bozanic, S. Sinha, M. Du Plessis, A. Muller, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 2, 12–14 October, 2009, Sinaia, Romania, pp. 311-315.
29. **"Limitations of a LC-Ladder and Capacitive Feedback LNA and Scaling to mm-Wave Frequencies"**, M. Weststrate, S. Sinha, D. Neculoiu, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 2, 12–14 October, 2009, Sinaia, Romania, pp. 315-319.
30. **"DC and Microwave Response of A One-Atom-Thick Graphene Flake"**, M. Dragoman, D. Dragoman, G. Deligiorgis, G. Konstantinidis, D. Neculoiu, A. Cismaru, R. Plana, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 2, 12–14 October, 2009, Sinaia, Romania, pp. 333-337.
31. **"Tuning Ferrite Supported Antenna With CRLH Cells"**, G. Sajin, S. Simion, F. Craciunoiu, A. Muller, Alina Cristina Bunea, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 2, 12–14 October, 2009, Sinaia, Romania, pp. 329–332.
32. **"First Principles Study of the Electronic Structure of Al/Ti:ZnO Crystal"**, R. Plugaru, N. Plugaru, **32nd Edition, IEEE International Semiconductor Conference, CAS-Proceedings**, Vol. 2, 12–14 October, 2009, Sinaia, Romania, pp. 383-386.
33. **"Microbeads Detection Using Spin-Valve Structures; A Micromagnetic Approach"**, M. Volmer and M. Avram, **Hysteresis Modeling and Micromagnetics 2009-NIST**, Gaithersburg, Maryland, USA.
34. **"On The Origin of Leakage Reverse Current in SiC Diodes"**, Vasile Obreja, Marioara Avram, **International Semiconductor Device Research Symposium (ISDRS '09)**, University of Maryland SUA.
35. **"Acoustic Devices for GHz Applications Based on Micromachining and Nanoprocessing of GaN/Silicon"** A. Muller, D. Neculoiu, G. Konstantinidis, D. Vasilache, A. Dinescu, A. Stavrinidis, G. Deligiorgis, M. Danila, K. Tzagaraki, M. Dragoman, A. Cismaru, C. Buiculescu, I. Petrini, A.A. Muller, D. Dascalu, **Proc of Memswave2009 (10th International Symposium on RF MEMS and RF Microsystems)** Trento, pp. 59-63.
36. **"FEM Microfluidic Simulations for Microchannels–Continuous and Droplet-Like Flow"**, B. Firtat, C.Moldovan, G. Boldeiu, **The 4M/ICOMM Conference**, Proceedings, 23-25 Sept. 2009, Karlsruhe, Germany, pp. 205.
37. **"Replica Molding of Polymeric Components for Microsystems"**, Paula Obreja, Dana Cristea, Adrian Dinescu and Raluca Gavrilă, **Proc. of Symposium on Design, Test, Integration & Packaging of MEMS/MOEMS**, Rome, Italy, 1-3 April 2009, p. 349-352.
38. **RF Devices Written With Carbon Nanotube Ink on Paper**, M. Dragoman, D. Dragoman, M.Al. Ahmad, R. Plana, E .Flahaut, **39 th Europea Microwave Conference**, 2009, Rome Italy, pp. 575-577.
39. **"A Design Study of A Polymeric Microgripper for Micromanipulation"**, Rodica Voicu, Raluca Muller, Laura Eftime, Catalin Tibeica, **Biannual 19th International Conference on MANUFACTURING 2008** Proceedings-published in 2009, pp. 131.
40. **"Electrochemical Investigation of Porous Silicon/Gold System In Biological Electrolyte"**, M. Simion, I. Kleps, M. Miu, Mihai Danila, Adina Bragaru, **216th ECS (Electrochemical Society) Meeting**, 4-9 October, Vienna, Austria.
41. **"Metal – Semiconductor Nanoassemblies for Improving of Sensing Efficiency"**, Mihaela Miu, Teodora Ignat, Irina Kleps, Monica Simion, Mihai Danila, Adina Bragaru, **16th ECS (Electrochemical Society) Meeting**, 4-9 October, Vienna, Austria.
42. **"Techniques for Photonic Nanostructures Fabrication"**, D. Cristea, P.Obreja, A. Dinescu, G.Konstantinidis, **Proc of the 3rd EOS Topical Meeting on Optical Microsystems (OMS09)**, 27-30 September, Capri, Italy, 2009.
43. **"HRTEM Study of ZnO Thin Layers Deposited By Magnetron Sputtering"**, E. Vasile, I. Iordache, R. Plugaru, **Proceeding E-MRS Conference**, June 8-12, 2009, Strasbourg, France, p. H-11.

44. **"First Principles Study of Oxygen Vacancy Induced Magnetic Moments in TiO₂"**, R. Plugaru, M. Artigas, N. Plugaru, **Proceeding E-MRS Conference**, June 8-12, 2009, Strasbourg, France, p. H-26.
45. **"Preparation and FTIR Characterization of Titanium Dioxide Film by Sol-Gel Route"**, V. Schiopu, A. Matei, I. Cernica, C. Podaru, **Proceeding E-MRS Conference**, 8-12 June 2009, Strasbourg, France, p. E-18, E P2 63.
46. **"Characterization of Polymeric Matrix Containing TiO₂ Nanoparticles"**, Alina Matei, Ileana Cernica, Vasilica Schiopu, Adrian Dinescu, **Proceeding E-MRS Conference**, 8-12 iunie 2009, Strasbourg, France, p. H-26, H-P2-31.
47. **"Nanostructured Oxide Materials as Protective Coatings for Lingocellulosic Composites"**, Alina Matei, Ileana Cernica, Vasilica Schiopu, Adrian Dinescu, Raluca Gavrilă, **Proceeding E-MRS Conference**, Strasbourg, France, 8-12 June 2009, p. P-15, PP2-18.
48. **"Micromachined III-N Acoustic Devices for Bacteria Detection"**, A.K. Pantazis, E. Gizeli, D. Vasilache, E. Aperathitis, A. Müller, G. Konstantinidis, *Proc of Memswave 2009 (10th International Sympo***"60 GHz Receiver with Double Folded Slot Antennas Fabricated on Thin GaAs Membrane"**, D. Neculoiu, G. Konstantinidis, T. Vaha-Heikkilä, M. Kantanen, A. Muller, A. Stavinidis, D. Vasilache, Z. Chatzopoulos, A. Muller, M. Dragoman, D. Dascalu, *Proc of Memswave2009 (10th International Symposium on RF MEMS and RF Microsystems)* Trento, pp. 33-37.**sium on RF MEMS and RF Microsystems)** Trento, Italy, pp. 63-67.
49. **"Frequency Tuning of a CRLH CPW Antenna on Ferrite Substrate by Magnetic Biasing Field"**, G. Sajin, S. Simion, F. Craciunoiu, A. Muller, Alina Cristina Bunea, **Proceedings of the European Microwave Conference, EuMC, EuMW – 2009**, Roma, Italy, 28 Sept.– 02 Oct. 2009, pp.1283–1286.
50. **"Ferrite Supported Antenna With CRLH Cells Tuned by Magnetic Bias Field"**, G. Sajin, S. Simion, F. Craciunoiu, A. Muller, Alina Cristina Bunea, **Proceedings of the 3rd International Congress on Advanced Electromagnetic Materials in Microwaves and Optics Metamaterials 2009**, London, UK, 30 August-04 September 2009, pp. 187–189.
51. **"Acoustic Devices for GHz Applications Based on Micromachining and Nanoprocessing of GaN/Silicon"**, A. Muller, D. Neculoiu, G. Konstantinidis, D. Vasilache, A. Dinescu, A. Stavinidis, G. Deligiorgis, M. Danila, K. Tzagaraki, M. Dragoman A. Cismaru, C. Buiculescu, I. Petrini, A.A. Muller, **EMRS Strasbourg**, France.
52. **"Negative Differential Resistances In Suspended Carbon Nanotube Structures and Grapheme"**, M. Dragoman, G. Konstantinidis , R. Plana ,D. Dragoman , M. Al Ahmad A. Kostopoulos, J.-H. Ting, D. Neculoiu, A. Cismaru, R. Buiculescu, **Proceeding E-MRS Conference**, June 8-12, 2009, Strasbourg, France.
53. **"Electronic Devices Written on Paper With Carbon Nanotube Ink"**, M. Dragoman, E. Flahaut, D. Dragoman, M. Al Ahmad, R. Plana, **Proceeding E-MRS Conference**, June 8-12, 2009, Strasbourg, France.
54. **"Study of CRP Immobilization on Nanostructured Silicon"**, Lavinia L. Ruta, Monica Simion, Mihaela Matache, Mihaela Miu, Adina Bragaru, Irina Kleps, Teodora Ignat, **Proceeding E-MRS Conference**, June 8-12, Strasbourg, France.
55. **"Biohybrid System Microfabrication for Optimal Detection of CRP"**, Monica Simion, Lavinia L. Ruta, Mihaela Matache, Codruta C. Paraschivescu, Mihaela Miu, Irina Kleps, Adina Bragaru, Teodora Ignat, **Proceeding E-MRS Conference**, June 8-12, Strasbourg, France.
56. **"(N)MEMS Technology for Miniaturised Direct Methanol Fuel Cell (DMFC) Hybrid Device"**, M. Miu, F. Craciunoiu, I. Kleps, T. Ignat, M. Simion, A. Bragaru, **Proceeding E-MRS Conference**, June 8-12, Strasbourg, France.
57. **"Electrocatalytic Activity Of Pt And Pt-Alloy Nanoparticles"**, M. Miu, M. Danila, I.Kleps, T. Ignat, M. Simion, A. Bragaru, **Proceeding E-MRS Conference**, June 8-12, Strasbourg Franta.
58. **"Microstructural Study Of Nanocrystalline Fcc Metals Embeded Into A Porous Silicon Matrix"**, M. Dănilă, I. Kleps, M. Miu, T. Ignat, M. Simion, **Proceeding E-MRS Conference**, June 8-12, Strasbourg, France.

59. **"Electrochemical Characterization of BSA/11-Mercaptoundecanoic Acid on Au Electrode"**, Teodora Ignat, Mihaela Miu, Irina Kleps, Adina Bragaru, Monica Simion, Mihai Danila, **Proceeding E-MRS Conference**, June 8-12, Strasbourg, France.
60. **"Polymer-Based Microphotonic Structures: Materials and Low Cost Fabrication Techniques"**, D. Cristea, P. Obreka, M. Kusko, A. Dinescu, **Proceeding E-MRS Conference**, June 8-12, Strasbourg, France.
61. **"Manipulation of Nanoparticles Within a Microfluidic System Based on SU8 Polymer for Bio Applications"**, L. Draghiciu, L. Eftime, I. Stanciu, R. Muller, **E-MRS 2009 Spring Meeting**, June 8-12, 2009, Strasbourg, France.
62. **"Effect of Dopants on The Structural and Electro-Optical Properties of CdS Thin Films"**, F. Iacomi, M. Purica, C. Baban, **Proceeding E-MRS Conference**, June 8-12, Strasbourg, France.
63. **"Layout for Millimeter Waves CRLH Devices Obtained by Femtosecond Laser System Ablation"**, Marian Zamfirescu, Stefan Simion, Gheorghe Sajin, Razvan Dabu, **European Materials Research Symposia, E-MRS, Laser and Plasma Processing for Advanced Materials Symposium**, 08–12 June 2009, Strasbourg, France.
64. **"Metal-Semiconductor-Metal Photodetector on Silicon on Insulating Wafers based on Nanoscale Interdigitated Electrodes"**, Elena Budianu, Munizer Purica, Adrian Dinescu, Elena Manea, **E-MRS Fall Meeting 2009**, September 14-18, Warsaw, Poland.
65. **"Micro-RAMAN Analysis of Single-Wall Carbon Nanotubes Grown by Chemical Vapor Deposition"**, Munizer Purica, Adrian Dinescu, Stefano Bellucci, Florin Comanescu, **E-MRS Fall Meeting 2009**, September 14-18, Warsaw, Poland.
66. **"Acoustic Devices and UV Photodetectors Based on Micromachining and Nanoprocessing of GaN/Silicon"**, A Müller, G Konstantinidis, D Neculoiu, A. Dinescu, A. Stavrinidis, D. Vasilache, M. Dragoman, M. Kayambaki, M Andrulidaki, G. Deligiorgis, A. Cismaru, K. Tsagaraki, C Buiculescu, I. Petrini, M Danila A. A. Müller, **IEEE Sensors, MEMS and Electro-optic Systems (SMEOS) Conference**, 2009, South Africa.
67. **"Scanning Radiation Characteristic of A CRLH CPW Ferrite Supported Antenna"**, G. Sajin, S. Simion, F. Craciunoiu, A. Muller, Alina Cristina Bunea, **Proceedings of the Asia-Pacific Microwave Conference, APMC-2009**, Singapore, Malaysia, 07–10 December 2009.
68. **"Microwave and Millimetre Wave Devices Based on Micromachining of IIIV Semiconductors"**, A Muller, D Neculoiu, G. Konstantinidis, T Vaha-Heikila, **NATO Workshop Advances Materials and Technologies for Micro/nano devices, Sensors and Actuators** 29 June- 2 July, St Petersburg, Russia, 2009.
69. **"CNT and Graphene Devices for Innovative RF Applications"**, M. Dragoman, F. Cocetti, R. Plana, **39 th European Microwave Conference**, 2009, Rome Italy.
70. **"Porous Silicon Layer For Protein Immobilization"**, M. Simion, M. Miu, I. Kleps, A. Bragaru, T. Ignat, L. Ruta, I. Baci, C. Mihailescu, D. Stan, **First International Conference on Multifunctional, Hybrid and Nanomaterials**, 15-19 March, Tour, Franta.
71. **"Electrochemical Investigation of Porous Silicon in Biological Electrolyte"**, M. Simion, I. Kleps, M. Miu, T. Ignat, A. Bragaru, **Colloque Electrochimie dans les Nanosciences 3**, 20-25 April, 2009, Paris, Franta.
72. **"High-Surface-Area Electrocatalyst Design and Fabrication"**, M. Miu, I. Kleps, T. Ignat, M. Simion, A. Bragaru, **Colloque Electrochimie dans les Nanosciences 3**, 20-25 April 2009, Paris, Franta.
73. **"Evaluation of Different Chemical Modified Surface Used In Protein Arrays"**, M. Simion, L. Ruta, I. Kleps, M. Matache, M. Miu, T. Ignat, **Advanced Microarray Technology-AMT**, 16-20 may 2009, Stockholm, Suedia.
74. **"Protein Biosensor Based on Electrochemical Impedance Spectroscopy as Detection Method"**, M. Miu, I. Kleps, M. Simion, T. Ignat, A. Bragaru, **Euroanalysis 2009**, 5-11 September, Innsbruck, Austria.
75. **"Quartz Crystal Microbalance (QCM): An Alternative Analytical Method for Investigation in Real-Time of Liquid Properties"**, Gh.V. Cimpoca, C. Radulescu, I.V. Popescu, I.D. Dulama, I.

- Ionita, M. Cimpoca, I. Cernica, R. Gavrilă, **7th International Conference of the Balkan Physical Union, BPU7**, 9-13 September 2009, Alexandriopolis, Greece, pp. 415-420.
76. **"Monitoring of the Drinking Water using of Alternative Analytical Techniques"**, Gh.V. Cimpoca, C. Radulescu, I.V. Popescu, I.D. Dulama, I. Bancuta, A.I. Gheboianu, I. Ionita, M. Cimpoca, I. Cernica, **7th International Conference of the Balkan Physical Union, BPU7**, 9-13 September 2009, Alexandriopolis, Greece, pp. 409-414.
 77. **"Synthesis and Characterization of Nanoporous TiO₂ Films on Silicon Substrates for Solar Cells Applications"**, E. Manea, A. Popescu, C. Podaru, M. Purica, F. Comanescu, V. Schiopu, M. Danila, C. Parvulescu, E. Budianu, **216th ESC Meeting**, October 4-9, 2009, Viena, Austria.
 78. **"Techniques for Photonic Nanostructures Fabrication"**, D. Cristea, P. Obreja, A. Dinescu, G. Konstantinidis, **3rd EOS Topical Meeting on Optical Microsystems(OMS 09)**, 27-30 September, Capri, Italy.
 79. **"Uncertainty Analysis of the Microembossing Process for Diffractive Optical Elements"**, Irina Stanciu, Mihai Kusko, Dana Cristea, Cristian Kusko, **World of Photonics Congress 2009, Manufacturing of Optical Components**, Munich, Germany, 15-17 June 2009.
 80. **"Magnetism and Electrical Conductivity in Al/Ti/Mn: ZnO Disordered Systems"**, R. Plugaru, N. Plugaru, **Workshop DFT meets Solid State Chemistry**, Oct. 2009, Dresden, Germany.
 81. **"First principles Study and Neutron Diffraction Investigation of Y₃Ni₁₃B₂, Y₃Co₁₃B₂ and Y₃Ni₁₀Co₃B₂; a Comparison with Related 1:5 Systems"**, N. Plugaru, D.P. Lazar, R. Plugaru, J. Campo, **Workshop DFT meets Solid State Chemistry**, Oct. 2009, Dresden, Germany.
 82. **"Morphological and Optical Investigations on the ZnO-Based Coatings"**, S. Mihaiu, R. Plugaru, E. Vasile, A. Toader, R. Trusca, M. Vasilescu, F. Comanescu, M. Zaharescu, **15th International Sol-Gel Conference**, August 2009, Porto de Galinhas-Pernambuco, Brazilia.
 83. **"A Possible Mechanism of Cold Fusion"**, G. Moagăr-Poladian, **15th International Conference on Condensed Matter Nuclear Science (ICCF-15)**, Italy.
 84. **"Hybrid Polymer Nanowire Based Electronic Devices: Correlated Characterization"**, L. Gence, V. Callegari, A. Dinescu, S. Melinte, S. Demoustier-Champagne, **MSS, 14th International Conference on Modulated Semiconductor Structures**, July 19-24, 2009, Kobé Japan.
 85. **"Characterisation of the Dispersion of ZnO Nanoparticles in Polymeric Matrix"**, A. Matei, I. Cernica, O. Cadar, C. Roman, V. Schiopu, Hybrid Materials 2009, **First International Conference on Multifunctional, Hybrid and Nanomaterials, Delegat Manual, B.3.1.79**, March 2009, France.
 86. **"The Adsorption of Ammonia Aqueous Solutions of Synthetic Zeolite Type A and X Loaded With Transition Metal Ions"**, Sorin Axinte, Ileana Cernica, Vasilica Schiopu, **First International Conference on Multifunctional, Hybrid and Nanomaterials, Delegat Manual, B.3.1.79**, March 2009, France.
 87. **"From LEDs to Solid-State White Lighting Devices, Another Semiconductor Revolution"**, V. Schiopu, I. Cernica, A. Matei, **XXIII International Congress of History of Science and Technology, Ideas and Instruments in Social Context, Book of abstracts, T09-08, Engineering in the Contemporary Period**, p. 532, Budapest, Hungary, July. 2009.
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