

Publications

1. **Mihaela Gîrtan**, "Investigations on the optical constants of indium oxide thin films prepared by ultrasonic spray pyrolysis" Materials Science and Engineering B, 118 (2005) 175
2. **Mihaela Gîrtan**, "The influence of post-annealing treatment on the electrical properties of In_2O_3 thin films prepared by an ultrasonic spray CVD process" Surface & Coatings Technology, 184 (2004) 219-224
3. **Mihaela Gîrtan**, P.O. Logerais, L. Avril, Anne Bouteville, F. Gonzatti „Thermal profile evaluation of a silicon wafer in a rapid thermal chemical vapour deposition apparatus”, Journal of Optoelectronics and Advanced Materials, No.7. (2005) 665
4. Diana Mardare, G.I. Rusu, Felicia Iacomì, **Mihaela Girtan**, I.Vida-Simiti, "Chromium-doped titanium oxide thin films" Materials Science and Engineering B, 118 (2005) 187
5. G.G.Rusu, A. Stanciu, **Mihaela Gîrtan**, Mihaela Vasiloschi, G.I.Rusu, „On the electronic transport and optical properties of some Poly(Azomethine Urethane) in thin films" J.Macomol.Sci.Phys Vol.B43, No.6, (2004) 1123-1141
6. **Mihaela Gîrtan**, G. Folcher, "Structural and optical properties of indium oxide thin films prepared by an ultrasonic spray CVD process", Surface & Coatings Technology, 172/2-3 (2003) 240-248
7. **Mihaela Gîrtan**, H. Cachet, G.I. Rusu "On the physical properties of indium oxide thin films prepared by pyrosol in comparison with films deposited by pneumatic spray pyrolysis", Thin Solid Films, 427/1-2 (2003) 406-410
8. **Mihaela Gîrtan**, G.I. Rusu, "Influence of deposition conditions on the electrical and optical properties of SnO_2 films prepared by pyrolytic decomposition method", Proceedings of Fifth General Conference of the Balkan Physical Union, BPU-5, August 25-29, 2003, Vrnjacka Banja, Serbia & Montenegro, pag. 873-877
9. **Mihaela Gîrtan**, Comparative studies of transparent semiconducting oxides properties, Analele Științifice ale Universității "Al. I. Cuza" Iași, Tomul XLVIII, s, Fizica, 2003, pag.121-130
10. **Mihaela Gîrtan**, G.I. Rusu "On the thickness dependence of the electrical conductivity and energy gap in semiconducting thin films", Phys. Low-Dim. Struct., 3/4 (2002) 117-126
11. **Mihaela Gîrtan**, A. Pui, E. Indrea, M. Tască, N. Apetroaie, "Investigations on surface free energy of indium oxide thin films" Acta Technica Napocensis (Scientific Bulletin of the Technical University of Cluj Napoca), 45 (2002), 85-89

12. **Mihaela Gîrtan**, A. Ionel, G. I. Rusu, "*Studies on the mechanism of electrical conduction and structural properties of In_2O_3 thin films deposited by spray pyrolysis*", Proceeding International Conference of Advanced Materials and Structures, Timisoara, 19-21 sept 2002, pag. 167-170
13. **Mihaela Gîrtan**, G.I. Rusu, G.G. Rusu, S. Gurlui, "*Influence of oxidation conditions on the properties of indium oxide thin films*", Applied Surface Science, 162-163, (2000) 490-496
14. **Mihaela Gîrtan**, G.I. Rusu, G.G. Rusu, "*The influence of preparation conditions on the electrical and optical properties of oxidized indium thin films*", Materials Science & Engineering B 76 (2000) 156-160
15. **Mihaela Gîrtan**, G.I. Rusu, "*On the size effect in In_2O_3 thin films*", Analele Științifice ale Universității "Al. I. Cuza" Iași, Tomul XLV-XLVI, 1999-2000, Fizica Stării Condensate, 166-172
16. G.I. Rusu, L. Leontie, G.G. Rusu, **Mihaela Gîrtan**, I. Salaoru, "*On the electronic transport properties of oxidized bismuth thin films*" Analele Științifice ale Universității "Al. I. Cuza" Iași, Tomul XLV-XLVI, 1999-2000, Fizica Stării Condensate, 104-112
17. **Mihaela Gîrtan**, G.I. Rusu, G.G. Rusu, "*The influence of thickness on the optoelectronic properties of indium oxide thin films*", Analele Științifice ale Universității "Al. I. Cuza" Iași, Tom XXXVIII, S. I. b, Fizică, 2000, pag. 163-169
18. Mihaela Rusu, A. Stanciu, V. Bulacovschi, G.G. Rusu, **Mihaela Bucescu**, G.I. Rusu, "Temperature Dependence of the Electrical Conductivity and Seebeck Coefficient of New Poly(ester-syloxane)urethane Elastomers in Thin Films", Thin Solid Films 326 (1998) 256-262
19. Felicia Iacomî, Aurelia Vasile, **Mihaela Bucescu**, "*Electrical Conductivity of some Silica -Rich Zeolites*", Revue Roumain de Chimie, 43 (11) 1021-1026, 1998.
20. G. I. Rusu, G. G. Rusu, L. Leontie, and **Mihaela Bucescu** "*Electrical and Optical Properties of Bi_2O_3 Thin Films*" Analele Științifice ale Universității "Al. I. Cuza" Iași, Tom XXXVIII, S. I. b, Fizică, 1992-1993.
21. Felicia Iacomî, Diana Mardare, **Mihaela Bucescu** "*FIZICĂ GENERALĂ - Lucrări de laborator. Întrebări. Probleme*", Editura Gama, Iași, 1997, ISBN 973-97937-9-7.

Conferences

22. **Mihaela Girtan**, Pierre-Olivier Logerais, Ludovic Avril, Anne Bouteville, Frederic Gonzatti „*Thermal profile evaluation of a silicon wafer in a rapid thermal chemical vapour deposition apparatus*” ICPAM-7, International Conference, June, 10-12, 2004, Iași, Romania
23. **Mihaela Girtan** “*Investigations on the optical constants and Urbach tail parameter of indium oxide thin films prepared by ultrasonic spray pyrolysis*” European Materials Research Society E-MRS 2004, Spring Meeting, May 24-28, 2004, Strasbourg, France, D/PI.19
24. Diana Mardare, G.I. Rusu, Felicia Iacomì, **Mihaela Girtan**, Ioan Vida-Simiti “*Chromium doped titanium oxide thin films*” European Materials Research Society E-MRS 2004, Spring Meeting, May 24-28, 2004, Strasbourg, France, D/PI23
25. Mihaela Rusu, A. Stanciu, Mihaela Vasiloschi, G.G. Rusu, **Mihaela Girtan**, G.I. Rusu, “*On the electronic transport and optical properties of some new poly(azomethine) urethanes in thin films*” European Materials Research Society E-MRS 2004, Spring Meeting, May 24-28, 2004, Strasbourg, France, G/PII04
26. **Mihaela Girtan**, G.I. Rusu, “*Influence of deposition conditions on the electrical and optical properties of SnO₂ films prepared by pyrolytic decomposition method*”, Fifth General Conference of the Balkan Physical Union, BPU-5, August 25-29, 2003, Vrnjacka Banja, Serbia & Montenegro.
27. **Mihaela Girtan**, G.I. Rusu „*Characterisation of SnO₂ and F doped SnO₂ thin films prepared by an ultrasonic CVD process*” ROCAM, 15-18, Sept. 2003 Constanta, Romania
28. **Mihaela Girtan**, “*The wetting properties of indium oxide thin films*”, Solid/Fluid Interfaces, 29 March-3 April 2003, St. Feliu de Guixols, Spain
29. **Mihaela Girtan**, G. Folcher, A. Ionel, G.I. Rusu “*Structure, optical and electrical properties of SnO₂ and SnO₂:F spray pyrolysis deposited thin films*”, Solid/Fluid Interfaces, 29 March-3 April 2003, St. Feliu de Guixols, Spain
30. **Mihaela Girtan**, A. Pui, E. Indrea, M. Tasca, N. Apetroiaie, “*Investigations on surface free energy of indium oxide thin films*”, MATEHN'02 Third International Conference on Materials and Manufacturing Technologies, Cluj Napoca 12-14 sept., 2002
31. **Mihaela Girtan**, G.I. Rusu, “*The influence of deposition parameters on the electrical properties of indium oxide thin films prepared by an ultrasonic spray CVD process*” 12-

th General Conference of the European Physical Society, EPS-12, Budapest, 26-30 August 2002, P1-74-C, pag.203

32. **Mihaela Gîrtan**, M. Rusu, A. Ionel, G.I. Rusu, "*Studies of physical properties F doped SnO₂ thin films*", 12-th General Conference of the European Physical Society, EPS-12, Budapest, 26-30 August 2002, P1-85-C, pag 214
33. **Mihaela Gîrtan**, "*Physical properties of indium oxide thin films prepared by pyrosol*", Nano-7/Ecoss-21, june 24-28, 2002, Malmo, Sweden, TH-P-204, pag. 117
34. **Mihaela Gîrtan**, H. Cachet, G.I. Rusu, "*Preparation of F doped SnO₂ thin films by pyrosol*", Nano-7/Ecoss-21, june 24-28, 2002, Malmo, Sweden, TH-P-205, pag. 117
35. G.I. Rusu, L.Leontie, G.G. Rusu, **Mihaela Gîrtan**, I. Salaoru, M. Popa, "*Study on the electronic transport properties of oxidized bismuth thin films*", Nano-7/Ecoss-21, june 24-28, 2002, Malmo, Sweden, TH-P-020, pag. 87
36. **Mihaela Gîrtan**, H. Cachet, G.I. Rusu, "On the physical properties of indium oxide thin films prepared by pyrosol in comparison with films deposited by pneumatic spray pyrolysis", European Materials Research society E-MRS 2002 Spring Meeting, June 18-21, 2002, Strasbourg, France, K.PII. 66, pag. K-9
37. M. Rusu, **Mihaela Gîrtan**, I. Caplanus, V. Sunel, G.I. Rusu, "*On the mechanism of electrical conduction in some new organic semiconductors in thin films*", European Materials Research society E-MRS 2002 Spring Meeting, June 18-21, 2002, Strasbourg, France
38. G.I. Rusu, L.Leontie, G.G. Rusu, **Mihaela Gîrtan**, I. Salaoru, "*On the mechanism of electrical conduction in oxidized bismuth thin films*", ECOSS 20 th European Conference on Surface Science Krakow, 4-7sept 2001, Poland
39. **Mihaela Gîrtan**, G.I. Rusu, Borensztajn Stephan, G.G. Rusu, S. Gurlui "*The influence of high rate deposition and high oxidation velocity on the electrical and optical properties of the oxidized indium thin films*" 18 th General Conference of the Condensed Matter Division of the European Physical Society, Montreux , Switzerland 13-17 March 2000, Jointly with the Japanese Physical Society and the Swiss Physical Society
40. **Mihaela Gîrtan**, G.I. Rusu, G.G. Rusu, "*The influence of the electrical current flow sense on the electrical properties of oxidized indium thin films*", Fourth General Conference of the Balkan Physical Union Veliko Turnovo, 22-27 August 2000

41. **Mihaela Gîrtan**, G.I. Rusu, A. Stanciu, M. Popa, "*On the electrical properties of some new aromatic poly (azomethine urethanes) in thin films*", Romanian Conference on Advanced Materials ROCAM, 23-25oct. 2000
42. **Mihaela Gîrtan**, G.I. Rusu, "*The surface tension of In₂O₃ films prepared by thermal oxidation and spray pyrolysis*", Romanian Conference on Advanced Materials ROCAM, 23-25oct. 2000
43. **Mihaela Girtan**, G.I. Rusu, G.G. Rusu, S. Gurlui, "*On the electrical and optical properties of the oxidized indium thin films*" The 5-th international conference on atomically controlled surfaces, interfaces and nanostructures (acsin -5) July 6-9 ,1999, Aix en Provence, France
44. **Mihaela Girtan**, G.I. Rusu, "*Characterization of In₂O₃ films deposited by pyrolytic decomposition method*", The 5-th international conference on atomically controlled surfaces, interfaces and nanostructures (acsin -5) July 6-9 ,1999, Aix en Provence, France
45. **Mihaela Girtan**, G.I. Rusu, A. Stanciu, G.G. Rusu, "*On the electrical properties of some new aromatic poly(azomethine urethanes) in thin films*", The 3 rd conference on condensed matter physics, sept. 17-19 Th ,1999, Timisoara, Romania
46. **Mihaela Girtan**, G.I. Rusu, G.G. Rusu, S. Gurlui "*The influence of thermal oxidation velocity on the electrical and optical properties of the oxidized indium thin films*", The 11 -Th Internal Conference on Thin Films, 19-Th Congress of Mexican Vacuum and Surface Science Society, Aug.30-Th - sept. 3 -Th, 1999
47. G.I. Rusu, L.Leontie, G. G. Rusu, **Mihaela Bucescu**, "*On the mechanism of electrical conduction in Bi₂O₃ thin films*", , IVC 14 ICC Birmingham 98 – Session TF.Pwe Pag. 3-4.
48. **Mihaela Gîrtan**, A. Ionel, G. I. Rusu, "*Investigation on the electronic transport properties of in₂o₃ thin films*", Cercetări Fundamentale și Aplicative în Domeniul Fizicii - (zilele Universității Al. I. Cuza) - 26 oct 2002
49. **Mihaela Gîrtan** "*Comparative studies of transparent semiconducting oxides properties*" Cercetări Fundamentale și Aplicative în Domeniul Fizicii - (zilele Universității Al. I. Cuza) - 26 oct 2002
50. **Mihaela Gîrtan**, A. Ionel, G. I. Rusu, "*Investigation on the electronic transport properties of F doped SnO₂ thin films*", Conferința Națională de Fizică, 26-28 sept. 2002, Tg. Mures

51. M. Surleac, F. Burghilea, **Mihaela Gîrtan**, *"The floating body conditions modifications when gas bubbles are introduced into liquid"*, A XXX a Conferința Națională Fizică și Tehnologiile Educationale Moderne -FTEM, 25 mai 2002
52. **Mihaela Gîrtan**, *"Preparation of F doped SnO₂ thin films by an ultrasonic spray process"*, Conferința Națională de Fizică, 18-20 oct. 2001, Iași
53. **Mihaela Gîrtan**, H. Cachet, G.I. Rusu, *"Study of the physical properties of SnO₂ and SnO₂:F thin films deposited by spray pyrolysis"*, Conferința Națională de Fizică, 18-20 oct. 2001, Iași
54. **Mihaela Gîrtan**, G.I. Rusu, *"Influența ratei de depunere asupra proprietăților electrice ale straturilor de In₂O₃ obținute prin oxidare termică"*, Al VI-lea Colocviu Național de Fizică și Tehnologia Materialelor Cristaline și Amorfe, Iași, 8-9 iunie 2000
55. I Caplanus, Mihaela Rusu, **Mihaela Gîrtan**, A. Stanciu, M. Popa, G.I. Rusu *"Studiul proprietăților electrice și termoelectrice ale unor noi poli (azometin uretani) aromatiți"*, Al VI-lea Colocviu Național de Fizică și Tehnologia Materialelor Cristaline și Amorfe, Iași, 8-9 iunie 2000
56. **Mihaela Gîrtan**, G.I. Rusu, G.G. Rusu, S. Gurlui, *"Influența vitezei de oxidare asupra proprietăților electrice și optice ale straturilor de In₂O₃"*, Al VI-lea Colocviu Național de Fizică și Tehnologia Materialelor Cristaline și Amorfe, Iași 8-9 iunie 2000
57. **Mihaela Gîrtan**, G.I. Rusu, G.G. Rusu *"Electrical investigations of indium oxide thin films prepared by thermal oxidation of indium thin films"*, Conferința Națională de Fizică, Constanța, 21-23 sept. 2000
58. **Mihaela Gîrtan**, G.G. Rusu, G.I. Rusu *"On the thermoelectric properties of indium oxide thin films"* Cercetări Fundamentale și Aplicative în Domeniul Fizicii - (zilele Universității Al. I. Cuza) 28 octombrie 2000.
59. **M. Gîrtan**, G.I. Rusu, *"Instalație de obținerea straturilor subțiri prin piroliza spray"*, A XXVIII-a Sesiune Științifică de Fizică și Chimie " Mijloace de Învățământ de Concepție Proprie "- mai 1999
60. **Mihaela Gîrtan**, G.I. Rusu, *"Studies of surface free energy of films deposited by pyrolytic decomposition method"* Cercetări Fundamentale și Aplicative în Domeniul Fizicii - (zilele Universității Al. I. Cuza) - octombrie 1999
61. **M. Bucescu**, G.I. Rusu, *"Traductor de turație cu fotodiodă"*(prezentare orală) - A XXVII-A Sesiune Științifică de Fizică și Chimie " Mijloace de Învățământ de Concepție Proprie "- mai 1998

62. **M. Gîrtan**, G.I. Rusu, A. Stanciu, G.G. Rusu "*On the Transport Properties of Some New Aromatic Poly(a α zomethine urethanes) in Thin Films*" (prezentare poster) Conferința Națională de Fizică- Constanta- sept 1998
63. **M. Gîrtan**, G.I. Rusu, A. Stanciu, G.G. Rusu "*On the Transport Properties of Some New Aromatic Poly(a α zomethine urethanes) in Thin Films*" (prezentare poster) Cercetări Fundamentale și Aplicative în Domeniul Fizicii - (zilele Universității Al. I. Cuza) -oct 1998
64. Felicia Iacomî, Aurelia Vasile, C.Belei, **Mihaela Bucescu (Gîrtan)**, "*Conductivitatea electrică a materialelor zeolitice*" Al V-Lea Colocviu Național de Fizica și Tehnologia Materialelor Cristaline și Amorfe, 14-16 iunie, 1996
65. G.G. Rusu, **Mihaela Bucescu (Gîrtan)**, L. Leontie, G.I. Rusu, "*Studiul proprietăților electrice ale straturilor subțiri de Bi₂O₃*", Al V-lea Colocviu Național de Fizica și Tehnologia Materialelor Cristaline și Amorfe, Iași, 14-16 iunie 1996