

LISTA LUCRĂRILOR ELABORATE ȘI PUBLICATE

Articole publicate în reviste indexate ISI	
1.	D.I. Rusu , G.G. Rusu, D. Luca, <i>Structural Characteristics and Optical Properties of Thermally Oxidized Zinc Films</i> , Acta Physica Polonica A, 119 (6), (2011) 850.
2.	E. Cuculescu, I. Evtodiev, I. Caraman, L. Leontie, V. Nedeff, D.I. Rusu , <i>Transport and generation–recombination mechanisms of nonequilibrium charge carriers in ZnO/In₂O₃/InSe: Cd heterojunctions</i> , Thin Solid Films, 519 (2011) 7356–7359.
3.	I. Evtodiev, I. Caraman, L. Leontie, D.I. Rusu , A. Dafinei, <i>Recombination luminescence and trap levels in undoped and Al-doped ZnO thin films on quartz and GaSe (0 0 0 1) substrates</i> , Materials Research Bulletin, 47 (3), 2012, 794-797.
4.	I. Caraman, D. Untilă, I. Evtodiev, V. Canțer, N.Spălatu, D.I. Rusu , E. Luchian, I. Rotaru, <i>Analysis Of Optical Properties And Structure Of GaTe-CdTe Nanocomposite</i> , Chalcogenide Letters, Vol. 12, No. 12, 2015.
5.	M. Stamate, G. Lazăr, V. Nedeff, I. Lazăr, I. Caraman, I. Rusu, D.I. Rusu , <i>The influence of Reactive Gaseous Flow Rate and Composition on the Optical Properties of TiO₂ Thin Films Deposited by DC Magnetron</i> , Acta Physica Polonica A, vol. 115 (3) (2009), 757.
6.	I. Caraman, E. Cuculescu, M. Stamate, G. Lazăr, V. Nedeff, I. Lazăr, D.I. Rusu , <i>Transport Mechanism Analysis of Non-Equilibrium Charge Carrier in Heterojunctions with GaS-CdTe:Mn Thin Films</i> , Thin Solid Films 517 (2009), 2399-2402.
Articole publicate în reviste proceedings ISI	
1.	D.I. Rusu , I.I. Rusu, <i>Optical transmission and absorption of ZnO thin films</i> , Romanian Journal of Physics, vol. 43(1-2), 589, 1998.
2.	I.I. Rusu, M. Caraman, D.I. Rusu , <i>Reflexion in the $\hbar\omega \ll E_g$ range for ZnO reactive sputtered films in planar magnetron</i> , Romanian Journal of Physics, 43(1-2), 153, 1998.
3.	I. Caraman, G. Lazăr, L. Bibire, I. Lazăr, M. Stamate, D.I. Rusu , <i>The optical properties of Cd_{1-x}MnxTe (0<x<0,55) solid solutions in monocrystals and thin polycrystalline films</i> , Physica Status Solidi C, No.6, vol. 5, 1203-1206 (2009).
4.	I. Caraman, I. Lazăr, M. Caraman, D.I. Rusu , <i>Surface structure of CdS layer at the interface of Cds-SnO₂ junction and the diagram of surface states</i> , Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies, Proc. SPIE, vol. 7297, 2009
Articole publicate în reviste indexate BDI	
1.	D.I. Rusu , I. Evtodiev, I. Caraman, G. Rusu, <i>Optical and Photoluminescence Characteristics of Polycrystalline Zinc Oxide Thin Films</i> , Journal of Optoelectronics and Biomedical Materials, Vol.6, Issue 3, 2014.
2.	I. Caraman, D.I. Rusu , E.R. Ardeleanu, I. Evtodiev, <i>The Detectors of UV and X Radiation Based on Ga₂S₃ and GaSe Semiconductors Intercalated with Cd</i> , Journal of Optoelectronics and Biomedical Materials, Vol.7, Nr.1, January-March 2015, p.27-32.
3.	E. Moșneguțu, V. Nedeff, N. Bârsan, A. Chițimuș, D.I. Rusu , <i>Influence of screening block supporting way on the behaviour of a solid particle on an oscillating surface</i> , Journal of Engineering Studies and Research, vol. 21(2015), no. 3, p. 51-58

4.	H. Mangeda, V. Nedeff, N. Bârsan, E. Moșneguțu, D. Chițimuș, D.I. Rusu , <i>Aspects Regarding The Kinshasa Urban Landfills Assessment And Proposals For Sustainable Development</i> , Journal of Engineering Studies and Research, vol. 2, no. 1, p.46-54.
5.	I Evtodiev, E Vatavu, D.I. Rusu , I Caraman, G Lazar, M Stamate, A Dafinei, <i>The optical properties of ZnO: Al films deposited on the (0001) surface of ε-GaSe single crystals</i> , Moldavian Journal of the Physical Sciences; v. 10(2), Apr-Jun 2011, p. 201-207
Articole publicate în Proceedings BDI	
1.	E. Moșneguțu, V. Nedeff, M. Panaite, N. Bârsan, D. Chițimuș, D.I. Rusu , O. Bontaș, <i>The Influence Of The Inclination Angle Of Working Surface Over Behavior Of A Solid Particles On A Flat Surface Oscillating</i> , Proceedings of the 6th International Conference On Energy Efficiency And Agricultural Engineering, 11-12 Noiembrie, 2015 Ruse, Bulgaria, ISSN-1311-9974, p. 609-619
Articole / studii publicate în volume ale unor manifestări științifice naționale / internaționale	
1.	D.I. Rusu , I.I. Rusu, <i>On the thermoelectric properties of ZnO films prepared by DC magnetron sputtering</i> , MOCM 14. Volume 2, Romanian Technical Sciences Academy, 2008.
2.	I. Caraman, M. Stamate, M. Caraman, D.I. Rusu , <i>The technique of measurement of modulated optical spectra</i> , Modelling and Optimization in the Machines Building Field, Romanian Technical Sciences Academy, (2) 2007, 104-107.
3.	M. Caraman, G. Lazăr, I. Vascan, I. Lazăr, M. Stamate, I. Rusu, D.I. Rusu , <i>Absorbția în domeniul vizibil a straturilor subțiri de carbon amorf hidrogenat</i> , Analele Științifice ale Universității de Stat din Moldova, 31-35, 2002.
4.	D.I. Rusu , I.I. Rusu, <i>Asupra mecanismului conducției electrice în straturi subțiri semiconductoare de ZnO</i> , Sesiunea Științifică – Universitatea Bacău, 1996.
5.	I.I. Rusu, I.D. Bursuc, D.I. Rusu , M. Caraman, I. Vascan, <i>Asupra transmisiei optice în straturi subțiri de ZnO obținute prin pulverizare catodică în sistem magnetron</i> , Colocviul Național de Fizică, Chișinău, Rep. Moldova, 1997.
6.	I.I. Rusu, I.D. Bursuc, D.I. Rusu , M. Caraman, I. Vascan, <i>Conductivitatea electrică a straturilor subțiri de ZnO obținute prin pulverizare reactivă catodică în sistem magnetron circular</i> , Colocviul Național de Fizică, Chișinău, Rep. Moldova, 1997.
7.	I.I. Rusu, I. Vascan, D.I. Rusu , M. Stamate, <i>IR reflection of ZnO thin films</i> , <i>The Third International Conference on Low Dimensional Structures and Devices</i> , 15-17 September 1999, Antalya, Turkey (p.12).
8.	I.I. Rusu, D.I. Rusu , <i>Influența tratamentului termic asupra conductivității electrice a straturilor subțiri de ZnO</i> , Colocviul Național de Fizica și Tehnologia Materialelor Amorfe, Iași, 8-11 Iunie, 2000.
9.	D.I. Rusu , I.I. Rusu, <i>The influence of heat treatment on the electrical conductivity of ZnO thin films</i> , Analele Științifice ale Universității “Al. I. Cuza” Iași, Tomul XLVI. S. Fizica Stării Condensate, (2000), p.113-118.
10.	I.I. Rusu, D.I. Rusu , <i>On the optical properties of ZnO films prepared by DC magnetron sputtering</i> , 7th International Conference of Advanced Materials, Iași, Iunie 2004.
11.	I.I. Rusu, D.I. Rusu , <i>On the electronic transport and optical properties of polycrystalline ZnO films</i> , First Conference on Advances in Optical Materials, Oct. 2005, Arizona, SUA.
12.	I. Lazăr, I. Caraman, G. Lazăr, M. Stamate, I.I. Rusu, D.I. Rusu , <i>Preparation of C60 thin film by thermal vacuum evaporation</i> , Modelling and Optimization in the Machines

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13.	I. Caraman, I. Lazăr, G. Lazăr, V. Nedeff, M. Stamate, I. Rusu, D.I. Rusu , <i>Nonlinear optical properties of C60 solutions</i> , 8 th International Conference of Physics and Advanced Materials, Iași, 2008.
14.	I. Caraman, E. Cuculescu, M. Stamate, G. Lazar, V. Nedeff, I. Lazar, D.I. Rusu , <i>Transport mechanism analysis of non-equilibrium charge carrier in heterojunctions with GaS-CdTe:Mn thin films</i> , E-MRS Strasbourg, May 2008.
15.	M. Stamate, I. Lazăr, G. Lazăr, I. Caraman, N. Miron, D. Nistor, I. Rusu, D.I. Rusu , <i>AFM studies of TiO₂ thin films deposited through a DC magnetron sputtering method</i> , International Symposium on Applied Physics, 1 st Edition, Galati, 2009.
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18.	D.I. Rusu , I. Caraman, <i>On the structural and optical characteristics of polycrystalline ZnO thin films</i> , OPROTEH 2015, Bacău, June 4-6.
19.	D.I. Rusu , G.G. Rusu, D. Luca, <i>Some correlations between structural, morphological and optical properties of ZnO thin films obtained by thermally oxidized metallic zinc films</i> , ICPAM-9, 20-23 Sept. 2012, Iași, Romania.
20.	D.I. Rusu , I.I.Rusu, <i>On the thermoelectric properties of zinc oxide films prepared by D.C.magnetron sputtering</i> , Conferința Internațională OPROTEH 2007, Bacău, 1–3 Noiembrie.
21.	H. Mangenda, V. Nedeff, N. Bârsan, E. Moşneguţu, D. Chiţimuş, D.I. Rusu , <i>Aspects regarding the Kinshasa urban landfills assessment and proposals for sustainable development</i> , OPROTEH 2015, Bacău, Romania.
22.	I. Evtodiev, D.I. Rusu , I. Caraman, G. Lazar, M. Stamate, A. Dafinei, <i>Optical properties of the layers ZnO:Al on the surface (0001) of the monocrystals ε-GaSe</i> , 5th International Conference on Materials Science and Condensed Matter Physics, Chisinau (Moldova, Republic of), 13-17 Sep 2010.

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Semnătura,

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