

## Lista de lucrări

### I. Reviste cotate ISI cu factor de impact

1. Sprincean, V., Leontie, L., Caraman, I., Lupan, O., Adeling, R., Gurlui, S., **Carlescu, A.**, Doroftei, C., Caraman, M., *Preparation, Chemical Composition, and Optical Properties of ( $\beta$ -Ga<sub>2</sub>O<sub>3</sub> Composite Thin Films)/(GaS<sub>x</sub>Se<sub>1-x</sub> Lamellar Solid Solutions) Nanostructures*, **Nanomaterilas**, 13(14), Article Number: 2052, **2023 FI = 5.3, Q2**
2. En-nadir, R., El-ghazi, H., Leontie, L., Tihtih, M., Zaki, S.E., Belaid, W., **Carlescu, A.**, Zorkani, I., *Tailoring optoelectronic properties of InGaN-based quantum wells through electric field, indium content, and confinement shape: A theoretical investigation*, **Physica B-Condensed Matter**, 663, Article Number: 414976, **2023 FI = 2.8, Q3**
3. Kadri, L., Abderrahmane, A., Bulai, G., **Carlescu, A.**, Doroftei, C., Motrescu, I., Gurlui, S., Leontie, L., Adnane, M., *Optical and Structural Analysis of TiO<sub>2</sub>-SiO<sub>2</sub> Nanocomposite Thin Films Fabricated via Pulsed Laser Deposition Technique*, **Nanomaterials**, 13(10), Article Number: 1632, **2023 FI = 5.3, Q1**
4. Doroftei, C., Leontie, L., Danac, R., Al Matarneh, C.M., **Carlescu, A.**, *Exploring Pyrrolo-Phenanthrolines as Semiconductors for Potential Implementation in Organic Electronics*, **Materials**, 16(9), Article Number: 3366, **2023 FI = 3.4, Q1**
5. Achehboune, M., Khenfouch, M., Boukhoubza, I., Derkaoui, I., Leontie, L., **Carlescu, A.**, Mothudi, B.M., Zorkani, I., Jorio, A., *Optimization of the luminescence and structural properties of Er-doped ZnO nanostructures: effect of dopant concentration and excitation wavelength*, **Journal of Luminescence**, 246, 18843–18843, **2022FI = 4.171, Q2**
6. Sprincean, V., Leontie, L., Caraman, I., Untila, D., Girtan, M., Gurlui, S., Lisnic, P., Doroftei, C., **Carlescu, A.**, Iacomì, F., Caraman, M., *Optical and Photosensitive Properties of Flexible n(p)-InSe/In<sub>2</sub>O<sub>3</sub> Heterojunctions*, **Materials**, 15(9), 3140–3140, **2022 FI = 3.748, Q1**
7. Doroftei, C., **Carlescu, A.**, Leontie, L., Danac, R., Al-Matarneh, C.M., *Structural, Electrical and Optical Properties of Pyrrolo[1,2-i][1,7] Phenanthroline-Based Organic Semiconductors*, **Materials**, 15(5), 1684–1684, **2022 FI = 3.748, Q1**
8. Kadri, L., Bulai, G., **Carlescu, A.**, George, S., Gurlui, S., Leontie, L., Doroftei, C., Adnane, M., *Effect of target sintering temperature on the morphological and optical properties of pulsed laser deposited TiO<sub>2</sub> thin films*, **Coatings**, 11(5), Article Number: 561, **2021 FI = 2.881, Q2**
9. Boukhoubza, I., Khenfouch, M., Achehboune, M., Leontie, L., **Carlescu, A.**, Doroftei, C., Mothudi, B.M., Zorkani, I., Jorio, A., *Graphene oxide coated flower-shaped ZnO nanorods: Optoelectronic properties*, **Journal of Alloys and Compounds**, 831, Article Number: 154874, **2020, FI = 5.316, Q1**
10. Boukhoubza, I., Khenfouch, M., Achehboune, M., Leontie, L., Galca, A.C., Enculescu, M., **Carlescu, A.**, Guerboub, M., Mothudi, B.M., Jorio, A., Zorkani, I., *Graphene oxide concentration effect on the optoelectronic properties of ZnO/GO nanocomposites*, **Nanomaterials**, 10(8), Article Number: 1532, **2020, FI = 5.076, Q1**
11. Leontie, L., Sprincean, V., Untila, D., Spalatu, N., Caraman, J., Cojocar, A., Susu, O., Lupari, O., Evtodiev, I., Vataavu, E., Tiginyanu, I., **Carlescu, A.**, Caraman, M., *Synthesis and optical properties of Ga<sub>2</sub>O<sub>3</sub> nanowires grown on GaS substrate*, **Thin Solid Films**, 689, Article Number: 137502, **2019, FI = 2.030, Q3**
12. Leontie, L., Doroftei, C., **Carlescu, A.**, *Nanocrystalline iron manganite prepared by sol-gel self-combustion method for sensor applications*, **Applied Physics A Materials Science & Processing**, 124(11), Article Number: 750, **2018, FI = 1.784, O2**
13. Leontie, L., Danac, R., **Carlescu, A.**, Doroftei, C., Rusu, G.G., Tiron, V., Gurlui, S., Susu, O., *Electric and optical properties of some new functional lower-rim-substituted calixarene derivatives in thin films*, **Applied Physics A Materials Science & Processing**, 124(5), Article Number: 355, **2018, FI = 1.784, O2**
14. Danac, R., Leontie, L., **Carlescu, A.**, Shova, S., Tiron, V., Rusu, G.G., Iacomì, F., Gurlui, S., Susu, O., Rusu, G.I., *Electric conduction mechanism of some heterocyclic compounds, 4,4'-bipyridine and indolizine derivatives in thin films*, **Thin Solid Films**, 612, **2016, 358–368, FI = 1.879, Q3**
15. Al Matarneh, C.M., Danac, R., Leontie, L., Tudorache, F., Petrila, I., Iacomì, F., **Carlescu, A.**, Nedelcu, G., Mangalagiu, I., *Synthesis and electron transport properties of some new 4,7-phenanthroline derivatives in thin*

- films, **Environmental Engineering and Management Journal**, 14(2), 2015, 421–431, **FI = 1.008, Q4**
16. Danac, R., Leontie, L., Girtan, M., Prelipceanu, M., Graur, A., **Carlescu, A.**, Rusu, G.I., *On the direct current electric conductivity and conduction mechanism of some stable disubstituted 4-(4-pyridyl) pyridinium ylides in thin films*, **Thin Solid Films**, 556, **2014**, 216–222, **FI = 1.759, Q3**
  17. Leontie, L., Danac, R., Girtan, M., **Carlescu, A.**, Rambu, A.P., Rusu, G.I., *Electron transport properties of some new 4-tert-butylcalix[4]arene derivatives in thin films*, **Materials Chemistry and Physics**, 135(1), **2012**, 123–129, **FI = 2.072, Q2**
  18. Danac, R., Leontie, L., **Carlescu, A.**, Rusu, G.I., *d.c. electric conduction mechanism of some newly synthesized indolizine derivatives in thin films*, **Materials Chemistry and Physics**, 134(2–3), **2012**, 1042–1048, **FI = 2.072, Q2**
  19. Tabacaru, C., **Carlescu, A.**, Sandu, A.V., Petcu, M.I., Iacomì, F., *Effect of annealing and gamma irradiation on clay mineral properties*, **Revista de Chimie**, 62(4), **2011**, 427–431, **FI = 0.599, Q3**
  20. Axinte, C., Nadejde, C., Ursache, M., Airinei, A., **Cirlescu, A.**, Racuciu, M., Creanga, D., *Magnetic submicron powder preparation and characterization*, **Researches in Powder Metallurgy**, 672, **2011**, 281–285, **FI = 0.339, Q4**
  21. Leontie, L., Danac, R., Druta, I., **Carlescu, A.**, Rusu, G.I., *Electron transport properties of some newly synthesized nonsymmetrical bisindolizines in thin films*, **Synthetic Metals**, 160(23–24), **2010**, 2526–2533, **FI = 1.871, Q2**
  22. Leontie, L., Danac, R., Druta, I., **Carlescu, A.**, Rusu, G.I., *Newly synthesized fused heterocyclic compounds in thin films with semiconductor properties*, **Synthetic Metals**, 160(11–12), **2010**, 1273–1279, **FI = 1.871, Q2**
  23. Focanici, E., **Cirlescu, A.**, Nica, V., Creanga, D., Sulitanu, N., *Comparative study of magnetite and cobalt ferrite submicron particles*, **Optoelectronics and Advanced Materials-Rapid Communications**, 3(4), **2009**, 326–329, **FI = 0.451, Q4**

## II. Reviste cotate ISI fara factor de impact

1. Boukhoubza, I., Khenfouch, M., Leontie, L., Achehboune, M., Doroftei, C., **Carlescu, A.**, Bulai, G., Mothudi, B.M., Zorkani, I., Jorio, A., *Enhancement of the structural and morphological properties of ZnO/rGO nanocomposites synthesized by hydrothermal method*, **Materials Today: Proceedings**, 53, **2022**, 324–331
2. Achehboune, M., Khenfouch, M., Boukhoubza, I., Leontie, L., Doroftei, C., **Carlescu, A.**, Bulai, G., Mothudi, B., Zorkani, I., Jorio, A., *Microstructural, FTIR and Raman spectroscopic study of Rare earth doped ZnO nanostructures*, **Materials Today: Proceedings**, 53, **2022**, 319–323
3. Doroftei, C., Prelipceanu, O.S., **Carlescu, A.**, Leontie, L., Prelipceanu, M., *Porous spinel-type oxide semiconductors for high-performance acetone sensors*, **Book Group Author: IEEE**, 14th International Conference on Development and Application Systems (DAS), **2018**, 110–113
4. Iacomì, F., Lazar, A., Frunza, R., Rotaru, R., **Carlescu, A.**, Sandu, I., Purica, M., Gavrilă, R., *Electric and optical properties of  $In_{2-x}Sn_xZnO_3$ -delta thin films*, **Book Series: International Semiconductor Conference**, 2011 International Semiconductor Conference (CAS 2011), 34<sup>th</sup> Edition, VOLS 1 AND 2, **2011**, 283–286
5. Ursache-Oprisan, M., Foca-nici, E., **Cirlescu, A.**, Caltun, O., Creanga, D., *Oleate coated magnetic cores based on magnetite, Zn ferrite and Co ferrite nanoparticles - preparation, physical characterization and biological impact on helianthus annuus photosynthesis*, **Book Series: AIP Conference Proceedings**, 8<sup>th</sup> International Conference on the Scientific and Clinical Applications of Magnetic Carriers, 1311, **2010**, 425–430
6. Ciurlica, E.L.F.N., Nadejde, C., Creanga, D.E., **Carlescu, A.**, Badescu, V., *Antibiotic coated magnetite nanoparticles for biological applications*, **Book Group Author: TANGER Ltd**, NANOCON 2010, 2<sup>nd</sup> International Conference, **2010**, 446–450
7. Nadejde, C., Ciurlica, E.F.N., Creanga, D., **Carlescu, A.**, Badescu, V., *Magnetite nanoparticles coated with rifampicin and chlortetracycline for drug delivery applications*, **Book Series: AIP Conference Proceedings**, 8<sup>th</sup> International Conference on the Scientific and Clinical Applications of Magnetic Carriers, 1311, **2010**, 388–394

## III. Reviste cotate BDI

1. Dascalu, F.C., **Carlescu, A.**, Curecheriu, L.P., Ianculescu, A., Mitoşeriu, L., *Complex dielectric permittivity of*

*BaTi<sub>0.85</sub>Zr<sub>0.15</sub>O<sub>3</sub> ceramics prepared by alternative methods*, **Revista Stiintifica “Vasile Adamachi”**, 2008, 127–130

Data  
05.01.2024

Semnatura