

FIȘĂ DE EVALUARE ÎN CONFORMITATE CU STANDARELE MINIMALE PE DOMENII PENTRU FUNCȚII DE CERCETARE

Standarde Minimale pe domenii pentru Funcțiile de Cercetare în cadrul Institutului de Cercetări Interdisciplinare ICI UAIC:

- calitatea de doctor in științe exacte fizica

În perioada 2011 – 2015, am avut calitatea de doctorand și am susținut public teza de doctorat la data de 06.11.2015.

Nr. Crt.	Lucrarea	AIS	I	P
1	Sprincean, V., Leontie, L., Caraman, I., Lupan, O., Adeling, R., Gurlui, S., Carlescu, A. , Doroftei, C., Caraman, M., <i>Preparation, Chemical Composition, and Optical Properties of (β-Ga₂O₃ Composite Thin Films)/(GaS_xSe_{1-x} Lamellar Solid Solutions) Nanostructures</i> , Nanomaterilas , 13(14), Article Number: 2052, 2023 (DOI: 10.3390/nano13142052)	0.707	0.101	0.707
2	En-nadir, R., El-ghazi, H., Leontie, L., Tihtih, M., Zaki, S.E., Belaid, W., Carlescu, A. , Zorkani, I., <i>Tailoring optoelectronic properties of InGaN-based quantum wells through electric field, indium content, and confinement shape: A theoretical investigation</i> , Physica B-Condensed Matter , 663, Article Number: 414976, 2023 (DOI: 10.1016/j.physb.2023.414976)	0.343	0.052	-
3	Kadri, L., Abderrahmane, A., Bulai, G., Carlescu, A. , Doroftei, C., Motrescu, I., Gurlui, S., Leontie, L., Adnane, M., <i>Optical and Structural Analysis of TiO₂-SiO₂ Nanocomposite Thin Films Fabricated via Pulsed Laser Deposition Technique</i> , Nanomaterials , 13(10), Article Number: 1632, 2023 (DOI: 10.3390/nano13101632)	0.707	0.101	-
4	Doroftei, C., Leontie, L., Danac, R., Al Matarneh, C.M., Carlescu, A. , <i>Exploring Pyrrolo-Phenanthrolines as Semiconductors for Potential Implementation in Organic Electronics</i> , Materials , 16(9), Article Number: 3366, 2023 (DOI: 10.3390/ma16093366)	0.510	0.102	-
5	Achehboune, M., Khenfouch, M., Boukhoubza, I., Derkaoui, I., Leontie, L., Carlescu, A. , Mothudi, B.M., Zorkani, I., Jorio, A., <i>Optimization of the luminescence and structural properties of Er-doped ZnO nanostructures: effect of dopant concentration and excitation wavelength</i> , Journal of Luminescence , 246, 2022 , 18843–18843 (DOI:10.1016/j.jlumin.2022.118843)	0.431	0.061	-
6	Sprincean, V., Leontie, L., Caraman, I., Untila, D., Girtan, M., Gurlui, S.	0.541	0.067	0.541

	S., Lisnic, P., Doroftei, C., Carlescu, A. , Iacom, F., Caraman, M., <i>Optical and Photosensitive Properties of Flexible n(p)-InSe/In₂O₃ Heterojunctions</i> , Materials , 15(9), 2022 , 3140–3140 (DOI: 10.3390/ma15093140)			
7	Doroftei, C., Carlescu, A. , Leontie, L., Danac, R., Al-Matarneh, C.M., <i>Structural, Electrical and Optical Properties of Pyrrolo[1,2-i][1,7] Phenanthroline-Based Organic Semiconductors</i> , Materials , 15(5), 2022 , 1684–1684 (DOI: 10.3390/ma15051684)	0.541	0.108	0.541
8	Kadri, L., Bulai, G., Carlescu, A. , George, S., Gurlui, S., Leontie, L., Doroftei, C., Adnane, M., <i>Effect of target sintering temperature on the morphological and optical properties of pulsed laser deposited TiO₂ thin films</i> , Coatings , 11(5), Article Number: 561, 2021 (DOI: 10.3390/coatings11050561)	0.406	0.050	0.406
9	Boukhoubza, I., Khenfouch, M., Achehboune, M., Leontie, L., Carlescu, A. , Doroftei, C., Mothudi, B.M., Zorkani, I., Jorio, A., <i>Graphene oxide coated flower-shaped ZnO nanorods: Optoelectronic properties</i> , Journal of Alloys and Compounds , 831, Article Number: 154874, 2020 (DOI: 10.1016/j.jallcom.2020.154874)	0.719	0.079	0.719
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., <i>Graphene oxide concentration effect on the optoelectronic properties of ZnO/GO nanocomposites</i> , Nanomaterials , 10(8), Article Number: 1532, 2020 , (DOI: 10.3390/nano10081532)	0.759	0.069	-
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., <i>Synthesis and optical properties of Ga₂O₃ nanowires grown on GaS substrate</i> , Thin Solid Films , 689, Article Number: 137502, 2019 , (DOI: 10.1016/j.tsf.2019.137502)	0.329	0.025	-
12	Leontie, L., Doroftei, C., Carlescu, A. , <i>Nanocrystalline iron manganite prepared by sol-gel self-combustion method for sensor applications</i> , Applied Physics A Materials Science & Processing , 124(11), Article Number: 750, 2018 , (DOI: 10.1007/s00339-018-2175-3)	0.308	0.102	-
13	Leontie, L., Danac, R., Carlescu, A. , Doroftei, C., Rusu, G.G., Tiron, V., Gurlui, S., Susu, O., <i>Electric and optical properties of some new functional lower-rim-substituted calixarene derivatives in thin films</i> , Applied Physics A Materials Science & Processing , 124(5), Article Number: 355, 2018 , (DOI: 10.1007/s00339-018-1784-1)	0.308	0.038	-
14	Danac, R., Leontie, L., Carlescu, A. , Shova, S., Tiron, V., Rusu, G.G., Iacom, F., Gurlui, S., Susu, O., Rusu, G.I., <i>Electric conduction mechanism of some heterocyclic compounds, 4,4'-bipyridine and indolizine derivatives in thin films</i> , Thin Solid Films , 612, 2016 , 358–368, (DOI: 10.1016/j.tsf.2016.06.012)	0.383	0.038	-
15	Danac, R., Leontie, L., Girtan, M., Prelipceanu, M., Graur, A., Carlescu, A. , Rusu, G.I., <i>On the direct current electric conductivity and conduction mechanism of some stable disubstituted 4-(4-pyridyl) pyridinium ylides in thin films</i> , Thin Solid Films , 556, 2014 , 216–222, (DOI: 10.1016/j.tsf.2014.01.076)	0.456	0.065	-
16	Leontie, L., Danac, R., Girtan, M., Carlescu, A. , Rambu, A.P., Rusu,	0.6	0.100	-

	G.I., <i>Electron transport properties of some new 4-tert-butylcalix[4]arene derivatives in thin films</i> , Materials Chemistry and Physics , 135(1), 2012 , 123–129, (DOI: 10.1016/j.matchemphys.2012.04.034)			
17	Danac, R., Leontie, L., Carlescu, A. , Rusu, G.I., <i>d.c. electric conduction mechanism of some newly synthesized indolizine derivatives in thin films</i> , Materials Chemistry and Physics , 134(2–3), 2012 , 1042–1048, (DOI: 10.1016/j.matchemphys.2012.03.110)	0.6	0.150	-
18	Leontie, L., Danac, R., Druta, I., Carlescu, A. , Rusu, G.I., <i>Electron transport properties of some newly synthesized nonsymmetrical bisindolizines in thin films</i> , Synthetic Metals , 160(23–24), 2010 , 2526–2533, (DOI: 10.1016/j.synthmet.2010.09.039)	0.6	0.120	-
19	Leontie, L., Danac, R., Druta, I., Carlescu, A. , Rusu, G.I., <i>Newly synthesized fused heterocyclic compounds in thin films with semiconductor properties</i> , Synthetic Metals , 160(11–12), 2010 , 1273–1279, (DOI: 10.1016/j.synthmet.2010.03.022)	0.6	0.120	-
TOTAL			1.541	2.914

- $P = \sum AIS_i = 2.914 \geq 0.5$

- $I = \sum AIS_i / n_i^{ef} = 1.541 \geq 0.5$

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