Mihaela Girtan

List of Publications by Citations

69 papers	1,479 citations	23 h-index	36 g-index
77 ext. papers	1,638 ext. citations	3.8 avg, IF	5.08 L-index

#	Paper	IF	Citations
69	Structural and optical properties of indium oxide thin films prepared by an ultrasonic spray CVD process. *Surface and Coatings Technology*, **2003**, 172, 242-250	4.4	137
68	Comparison of ITO/metal/ITO and ZnO/metal/ZnO characteristics as transparent electrodes for third generation solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 100, 153-161	6.4	130
67	Role of ITO and PEDOT:PSS in stability/degradation of polymer:fullerene bulk heterojunctions solar cells. *Solar Energy Materials and Solar Cells*, **2010**, 94, 446-450	6.4	121
66	Optical properties of Nb-doped TiO2 thin films prepared by sol□gel method. *Ceramics International*, **2013**, 39, 4771-4776	5.1	55
65	Optical, morphological and electrical studies of thermally vacuum evaporated CdTe thin films for photovoltaic applications. *Solar Energy*, **2014**, 108, 51-60	6.8	51
64	On the structural, morphological, optical and electrical properties of sol□gel deposited ZnO:In films. *Thin Solid Films*, **2010**, 519, 573-577	2.2	50
63	Preparation and characterization of ZnO thin films prepared by thermal oxidation of evaporated Zn thin films. *Superlattices and Microstructures*, **2007**, 42, 116-122	2.8	45
62	Structural and electrical properties of zinc oxides thin films prepared by thermal oxidation. *Applied Surface Science*, **2008**, 254, 4179-4185	6.7	44
61	Optical characterization of vacuum evaporated CdZnTe thin films deposited by a multilayer method. *Vacuum*, **2007**, 81, 1476-1479	3.7	43
60	Influence of oxidation conditions on the properties of indium oxide thin films. *Applied Surface Science*, **2000**, 162-163, 492-498	6.7	41
59	A critical review of photovoltaic cells based on organic monomeric and polymeric thin film heterojunctions. *Thin Solid Films*, **2017**, 642, 219-231	2.2	32
58	Flexible heterostructures based on metal phthalocyanines thin films obtained by MAPLE. *Applied Surface Science*, **2016**, 374, 403-410	6.7	32
57	On the physical properties of indium oxide thin films deposited by pyrosol in comparison with films deposited by pneumatic spray pyrolysis. *Thin Solid Films*, **2003**, 427, 406-410	2.2	32
56	On the stability of the electrical and photoelectrical properties of P3HT and P3HT:PCBM blends thin films. *Organic Electronics*, **2013**, 14, 200-205	3.5	31
55	Undoped and Cr-doped TiO2 thin films obtained by spray pyrolysis. *Thin Solid Films*, **2010**, 518, 4586-4589	2.2	31
54	On the properties of aluminium doped zinc oxide thin films deposited on plastic substrates from ceramic targets. *Applied Surface Science*, **2013**, 274, 306-313	6.7	30
53	Temperature dependence of the electrical conductivity and Seebeck coefficient of new poly(ester-syloxane)urethane elastomers in thin films. *Thin Solid Films*, **1998**, 326, 256-262	2.2	28

52	Studies on Pr3+Yb3+ codoped ZBLA as rare earth down convertor glasses for solar cells encapsulation. *Optical Materials*, **2015**, 48, 243-246	3.3	27
51	Maple prepared organic heterostructures for photovoltaic applications. *Applied Physics A: Materials Science and Processing*, **2011**, 104, 921-928	2.6	27
50	Chromium-doped titanium oxide thin films. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2005**, 118, 187-191	3.1	26
49	The influence of preparation conditions on the electrical and optical properties of oxidized indium thin films. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2000**, 76, 156-160	3.1	25
48	On physical properties of undoped and Al and In doped zinc oxide films deposited on PET substrates by reactive pulsed laser deposition. *EPJ Applied Physics*, **2010**, 51, 33212	1.1	24
47	Investigations on the optical constants of indium oxide thin films prepared by ultrasonic spray pyrolysis. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2005**, 118, 175-178	3.1	23
46	Effect of B2O3 addition on optical and structural properties of TiO2 as a new blocking layer for multiple dye sensitive solar cell application (DSSC). *RSC Advances*, **2016**, 6, 68819-68826	3.7	23
45	Thermal stability of poly(3,4-ethylenedioxythiophene)Polystyrenesulfonic acid films electrical properties. *Superlattices and Microstructures*, **2009**, 46, 44-51	2.8	22
44	Thin films of arylenevinylene oligomers prepared by MAPLE for applications in non-linear optics. *Applied Surface Science*, **2011**, 257, 5298-5302	6.7	22
43	The influence of post-annealing treatment on the electrical properties of In2O3 thin films prepared by an ultrasonic spray CVD process. *Surface and Coatings Technology*, **2004**, 184, 219-224	4.4	22
42	Structural and optical properties of ZnO thin films deposited onto ITO/glass substrates. *Journal of Non-Crystalline Solids*, **2008**, 354, 4461-4464	3.9	21
41	Oxide/metal/oxide electrodes for solar cell applications. *Solar Energy*, **2017**, 146, 464-469	6.8	19
40	On morphological, structural and electrical properties of vacuum deposited pentacene thin films. *Vacuum*, **2009**, 83, 1159-1163	3.7	18
39	Surface wettability of titania thin films with increasing Nb content. *Journal of Applied Physics*, **2012**, 112, 073502	2.5	18
38	Effect of ITO electrode patterning on the properties of organic heterostructures based on non-fullerene acceptor prepared by MAPLE. *Applied Surface Science*, **2020**, 509, 145351	6.7	13
37	Properties of PEDOT:PEG/ZnO/p-Si heterojunction diode. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2012**, 177, 785-790	3.1	12
36	Visible to near-infrared down-shifting in Tm 3+ doped fluoride glasses for solar cells efficiency enhancement. *Optical Materials*, **2016**, 60, 235-239	3.3	12
35	MAPLE preparation and characterization of mixed arylenevinylene based oligomers:C60 layers. *Applied Surface Science*, **2016**, 374, 278-289	6.7	11

34	Study of oxide/metal/oxide thin films for transparent electronics and solar cells applications by spectroscopic ellipsometry. *AIMS Materials Science*, **2017**, 4, 594-613	1.9	11
33	Organic heterostructures deposited by MAPLE on AZO substrate. *Applied Surface Science*, **2017**, 417, 196-203	6.7	10
32	Study of charge carriers transport in organic solar cells by illumination area shifting. *Solar Energy Materials and Solar Cells*, **2017**, 160, 430-434	6.4	10
31	Optical and Morphological Properties of P3HT and P3HT: PCBM Thin Films Used in Photovoltaic Applications. *IOP Conference Series: Materials Science and Engineering*, **2018**, 374, 012015	0.4	10
30	MAPLE prepared heterostructures with oligoazomethine: Fullerene derivative mixed layer for photovoltaic applications. *Applied Surface Science*, **2017**, 417, 183-195	6.7	9
29	Effect of the morphology on the optical and electrical properties of polycarbonate film doped with aniline derivatives monomers. *Synthetic Metals*, **2012**, 161, 2589-2597	3.6	9
28	Gas sensing materials based on TiO2 thin films. *Journal of Vacuum Science & Technology B*, **2009**, 27, 538		9
27	On the electrical and photoelectrical properties of CH3NH3PBI3 perovskites thin films. *Solar Energy* , **2020**, 195, 446-453	6.8	9
26	Effect of maleic anhydride aniline derivative buffer layer on the properties of flexible substrate heterostructures: Indium tin oxide/nucleic acid base/metal. *Thin Solid Films*, **2011**, 520, 1251-1258	2.2	8
25	Electrosynthesis of organic inorganic compounds (p n heterojunction). *Materials Science in Semiconductor Processing*, **2010**, 13, 141-146	4.3	8
24	Flexible organic heterostructures obtained by MAPLE. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	8
23	Is photonics the new electronics?. *Materials Today*, **2014**, 17, 100-101	21.8	7
22	Organic heterostructures obtained on ZnO/Ag/ZnO electrode. *Vacuum*, **2018**, 154, 366-370	3.7	7
21	On the properties of organic heterostructures prepared with nano-patterned metallic electrode. *Applied Surface Science*, **2018**, 443, 592-602	6.7	6
20	On the Electrical and Optical Properties Stability of P3HT Thin Films Sensitized with Nitromethane Ferric Chloride Solutions. *Coatings*, **2020**, 10, 1074	2.9	5
19	New Trends in Solar Cells Research. *SpringerBriefs in Applied Sciences and Technology*, **2018**, 45-75	0.4	5
18	Nb-doped TiO2 thin films as photocatalytic materials. *Bulletin of Materials Science*, **2015**, 38, 1259-1262	1.7	4
17	Hydrophilic/hydrophobic and optical properties of B 2 O 3 doped TiO 2 sol-gel thin films: Effect of B 2 O 3 content, film thickness and surface roughness. *Materials Chemistry and Physics*, **2018**, 215, 31-39	4.4	4

16	Brightness of Blue/Violet Luminescent Nano-Crystalline AZO and IZO Thin Films with Effect of Layer Number: For High Optical Performance. *Chinese Physics Letters*, **2016**, 33, 056801	1.8	4
15	Optical and photosensitive properties of lamellar nanocomposites obtained by Cd intercalation of GaTe. *Journal of Alloys and Compounds*, **2014**, 584, 542-545	5.7	4
14	Electron transport properties of some new 4-tert-butylcalix[4]arene derivatives in thin films. *Materials Chemistry and Physics*, **2012**, 135, 123-129	4.4	4
13	On the direct current electric conductivity and conduction mechanism of some stable disubstituted 4-(4-pyridyl)pyridinium ylides in thin films. *Thin Solid Films*, **2014**, 556, 216-222	2.2	3
12	On the Physical Properties PEDOT:PSS Thin Films. *Materials Today Communications*, **2020**, 22, 100735	2.5	3
11	Effects of pulsed electrodeposition parameters on the properties of zinc oxide thin films to improve the photoelectrochemical and photoelectrodegradation efficiency. *EPJ Applied Physics*, **2018**, 84, 30102	1.1	3
10	Combined Experimental and Modeling Analysis for the Development of Optical Materials Suitable to Enhance the Implementation of Plasmonic-Enhanced Luminescent Down-Shifting Solutions on Existing Silicon-Based Photovoltaic Devices. *ACS Applied Electronic Materials*, **2021**, 3, 2512-2525	4	2
9	Studies on the Physical Properties of TiO:Nb/Ag/TiO:Nb and NiO/Ag/NiO Three-Layer Structures on Glass and Plastic Substrates as Transparent Conductive Electrodes for Solar Cells. *Nanomaterials*, **2021**, 11,	5.4	2
8	Exploring the development of nanocomposite encapsulation solutions for enhancing the efficiency of PV systems using optical modelling. *Optical Materials*, **2021**, 111, 110654	3.3	2
7	A review on oxide/metal/oxide thin films on flexible substrates as electrodes for organic and perovskite solar cells. *Optical Materials: X*, **2021**, 100122	1.7	1
6	Trends in Photonics. *SpringerBriefs in Applied Sciences and Technology*, **2018**, 77-96	0.4	1
5	Theoretical Aspects of Materials Physics. *SpringerBriefs in Applied Sciences and Technology*, **2018**, 15-44	0.4	1
4	Organic Heterostructures with Indium-Free Transparent Conductor Electrode for Optoelectronic Applications. *Physica Status Solidi (A) Applications and Materials Science*,2100521	1.6	0
3	On the Electronic Transport and Optical Properties of Some Poly(Azomethine Urethane) in Thin Films. *Journal of Macromolecular Science - Physics*, **2004**, 43, 1123-1141	1.4	
2	Carbon-based materials for future photonics devices. A parallel between electronics and photonics. *Optical Materials*, **2022**, 125, 112068	3.3	
1	A Parallel Between Electronics and Photonics. *SpringerBriefs in Applied Sciences and Technology*, **2018**, 1-13	0.4	