

Mihaela Girtan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Carbon-based materials for future photonics devices. A parallel between electronics and photonics. <i>Optical Materials</i> , 2022 , 125, 112068	3.3	
68	A review on oxide/metal/oxide thin films on flexible substrates as electrodes for organic and perovskite solar cells. <i>Optical Materials: X</i> , 2021 , 100122	1.7	1
67	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. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 2512-2525	4	2
66	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. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
65	Exploring the development of nanocomposite encapsulation solutions for enhancing the efficiency of PV systems using optical modelling. <i>Optical Materials</i> , 2021 , 111, 110654	3.3	2
64	On the Electrical and Optical Properties Stability of P3HT Thin Films Sensitized with Nitromethane Ferric Chloride Solutions. <i>Coatings</i> , 2020 , 10, 1074	2.9	5
63	Effect of ITO electrode patterning on the properties of organic heterostructures based on non-fullerene acceptor prepared by MAPLE. <i>Applied Surface Science</i> , 2020 , 509, 145351	6.7	13
62	On the Physical Properties PEDOT:PSS Thin Films. <i>Materials Today Communications</i> , 2020 , 22, 100735	2.5	3
61	On the electrical and photoelectrical properties of CH ₃ NH ₃ PBI ₃ perovskites thin films. <i>Solar Energy</i> , 2020 , 195, 446-453	6.8	9
60	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. <i>Materials Chemistry and Physics</i> , 2018 , 215, 31-39	4.4	4
59	On the properties of organic heterostructures prepared with nano-patterned metallic electrode. <i>Applied Surface Science</i> , 2018 , 443, 592-602	6.7	6
58	New Trends in Solar Cells Research. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 45-75	0.4	5
57	Trends in Photonics. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 77-96	0.4	1
56	A Parallel Between Electronics and Photonics. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 1-13	0.4	
55	Theoretical Aspects of Materials Physics. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 15-44	0.4	1
54	Effects of pulsed electrodeposition parameters on the properties of zinc oxide thin films to improve the photoelectrochemical and photoelectrodegradation efficiency. <i>EPJ Applied Physics</i> , 2018 , 84, 30102	1.1	3
53	Optical and Morphological Properties of P3HT and P3HT:PCBM Thin Films Used in Photovoltaic Applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 374, 012015	0.4	10

52	Flexible organic heterostructures obtained by MAPLE. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	8
51	Organic heterostructures obtained on ZnO/Ag/ZnO electrode. <i>Vacuum</i> , 2018 , 154, 366-370	3.7	7
50	Organic heterostructures deposited by MAPLE on AZO substrate. <i>Applied Surface Science</i> , 2017 , 417, 196-203	6.7	10
49	MAPLE prepared heterostructures with oligoazomethine: Fullerene derivative mixed layer for photovoltaic applications. <i>Applied Surface Science</i> , 2017 , 417, 183-195	6.7	9
48	Oxide/metal/oxide electrodes for solar cell applications. <i>Solar Energy</i> , 2017 , 146, 464-469	6.8	19
47	A critical review of photovoltaic cells based on organic monomeric and polymeric thin film heterojunctions. <i>Thin Solid Films</i> , 2017 , 642, 219-231	2.2	32
46	Study of charge carriers transport in organic solar cells by illumination area shifting. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 160, 430-434	6.4	10
45	Study of oxide/metal/oxide thin films for transparent electronics and solar cells applications by spectroscopic ellipsometry. <i>AIMS Materials Science</i> , 2017 , 4, 594-613	1.9	11
44	Brightness of Blue/Violet Luminescent Nano-Crystalline AZO and IZO Thin Films with Effect of Layer Number: For High Optical Performance. <i>Chinese Physics Letters</i> , 2016 , 33, 056801	1.8	4
43	MAPLE preparation and characterization of mixed arylenevinylene based oligomers:C60 layers. <i>Applied Surface Science</i> , 2016 , 374, 278-289	6.7	11
42	Flexible heterostructures based on metal phthalocyanines thin films obtained by MAPLE. <i>Applied Surface Science</i> , 2016 , 374, 403-410	6.7	32
41	Effect of B2O3 addition on optical and structural properties of TiO2 as a new blocking layer for multiple dye sensitive solar cell application (DSSC). <i>RSC Advances</i> , 2016 , 6, 68819-68826	3.7	23
40	Visible to near-infrared down-shifting in Tm 3+ doped fluoride glasses for solar cells efficiency enhancement. <i>Optical Materials</i> , 2016 , 60, 235-239	3.3	12
39	Nb-doped TiO2 thin films as photocatalytic materials. <i>Bulletin of Materials Science</i> , 2015 , 38, 1259-1262	1.7	4
38	Studies on Pr3+Tb3+ codoped ZBLA as rare earth down convertor glasses for solar cells encapsulation. <i>Optical Materials</i> , 2015 , 48, 243-246	3.3	27
37	Optical, morphological and electrical studies of thermally vacuum evaporated CdTe thin films for photovoltaic applications. <i>Solar Energy</i> , 2014 , 108, 51-60	6.8	51
36	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</i> , 2014 , 556, 216-222	2.2	3
35	Optical and photosensitive properties of lamellar nanocomposites obtained by Cd intercalation of GaTe. <i>Journal of Alloys and Compounds</i> , 2014 , 584, 542-545	5.7	4

34	Is photonics the new electronics?. <i>Materials Today</i> , 2014 , 17, 100-101	21.8	7
33	On the properties of aluminium doped zinc oxide thin films deposited on plastic substrates from ceramic targets. <i>Applied Surface Science</i> , 2013 , 274, 306-313	6.7	30
32	On the stability of the electrical and photoelectrical properties of P3HT and P3HT:PCBM blends thin films. <i>Organic Electronics</i> , 2013 , 14, 200-205	3.5	31
31	Optical properties of Nb-doped TiO ₂ thin films prepared by sol-gel method. <i>Ceramics International</i> , 2013 , 39, 4771-4776	5.1	55
30	Electron transport properties of some new 4-tert-butylcalix[4]arene derivatives in thin films. <i>Materials Chemistry and Physics</i> , 2012 , 135, 123-129	4.4	4
29	Comparison of ITO/metal/ITO and ZnO/metal/ZnO characteristics as transparent electrodes for third generation solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 100, 153-161	6.4	130
28	Effect of the morphology on the optical and electrical properties of polycarbonate film doped with aniline derivatives monomers. <i>Synthetic Metals</i> , 2012 , 161, 2589-2597	3.6	9
27	Properties of PEDOT:PEG/ZnO/p-Si heterojunction diode. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012 , 177, 785-790	3.1	12
26	Surface wettability of titania thin films with increasing Nb content. <i>Journal of Applied Physics</i> , 2012 , 112, 073502	2.5	18
25	Effect of maleic anhydride-aniline derivative buffer layer on the properties of flexible substrate heterostructures: Indium tin oxide/nucleic acid base/metal. <i>Thin Solid Films</i> , 2011 , 520, 1251-1258	2.2	8
24	Maple prepared organic heterostructures for photovoltaic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 921-928	2.6	27
23	Thin films of arylenevinylene oligomers prepared by MAPLE for applications in non-linear optics. <i>Applied Surface Science</i> , 2011 , 257, 5298-5302	6.7	22
22	On physical properties of undoped and Al and In doped zinc oxide films deposited on PET substrates by reactive pulsed laser deposition. <i>EPJ Applied Physics</i> , 2010 , 51, 33212	1.1	24
21	Electrosynthesis of organic-organic compounds (p-n heterojunction). <i>Materials Science in Semiconductor Processing</i> , 2010 , 13, 141-146	4.3	8
20	Undoped and Cr-doped TiO ₂ thin films obtained by spray pyrolysis. <i>Thin Solid Films</i> , 2010 , 518, 4586-4589.2	2	31
19	On the structural, morphological, optical and electrical properties of sol-gel deposited ZnO:In films. <i>Thin Solid Films</i> , 2010 , 519, 573-577	2.2	50
18	Role of ITO and PEDOT:PSS in stability/degradation of polymer:fullerene bulk heterojunctions solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 446-450	6.4	121
17	Gas sensing materials based on TiO ₂ thin films. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 538		9

16	Thermal stability of poly(3,4-ethylenedioxythiophene)/polystyrenesulfonic acid films electrical properties. <i>Superlattices and Microstructures</i> , 2009 , 46, 44-51	2.8	22
15	On morphological, structural and electrical properties of vacuum deposited pentacene thin films. <i>Vacuum</i> , 2009 , 83, 1159-1163	3.7	18
14	Structural and optical properties of ZnO thin films deposited onto ITO/glass substrates. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 4461-4464	3.9	21
13	Structural and electrical properties of zinc oxides thin films prepared by thermal oxidation. <i>Applied Surface Science</i> , 2008 , 254, 4179-4185	6.7	44
12	Optical characterization of vacuum evaporated CdZnTe thin films deposited by a multilayer method. <i>Vacuum</i> , 2007 , 81, 1476-1479	3.7	43
11	Preparation and characterization of ZnO thin films prepared by thermal oxidation of evaporated Zn thin films. <i>Superlattices and Microstructures</i> , 2007 , 42, 116-122	2.8	45
10	Investigations on the optical constants of indium oxide thin films prepared by ultrasonic spray pyrolysis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 118, 175-178	3.1	23
9	Chromium-doped titanium oxide thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 118, 187-191	3.1	26
8	The influence of post-annealing treatment on the electrical properties of In ₂ O ₃ thin films prepared by an ultrasonic spray CVD process. <i>Surface and Coatings Technology</i> , 2004 , 184, 219-224	4.4	22
7	On the Electronic Transport and Optical Properties of Some Poly(Azomethine Urethane) in Thin Films. <i>Journal of Macromolecular Science - Physics</i> , 2004 , 43, 1123-1141	1.4	
6	On the physical properties of indium oxide thin films deposited by pyrosol in comparison with films deposited by pneumatic spray pyrolysis. <i>Thin Solid Films</i> , 2003 , 427, 406-410	2.2	32
5	Structural and optical properties of indium oxide thin films prepared by an ultrasonic spray CVD process. <i>Surface and Coatings Technology</i> , 2003 , 172, 242-250	4.4	137
4	The influence of preparation conditions on the electrical and optical properties of oxidized indium thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000 , 76, 156-160	3.1	25
3	Influence of oxidation conditions on the properties of indium oxide thin films. <i>Applied Surface Science</i> , 2000 , 162-163, 492-498	6.7	41
2	Temperature dependence of the electrical conductivity and Seebeck coefficient of new poly(ester-syloxane)urethane elastomers in thin films. <i>Thin Solid Films</i> , 1998 , 326, 256-262	2.2	28
1	Organic Heterostructures with Indium-Free Transparent Conductor Electrode for Optoelectronic Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2100521	1.6	0