

Marin Rusu

List of Publications by Year in descending order

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72
papers

1,352
citations

361413
20
h-index

377865
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all docs

72
docs citations

72
times ranked

1913
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO/NiO heterostructures with enhanced photocatalytic activity obtained by ultrasonic spraying of a NiO shell onto ZnO nanorods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129366.	4.7	18
2	Tuning halide perovskite energy levels. <i>Energy and Environmental Science</i> , 2021, 14, 1429-1438.	30.8	124
3	BaZrS ₃ Chalcogenide Perovskite Thin Films by H ₂ S Sulfurization of Oxide Precursors. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2148-2153.	4.6	46
4	Electronic Structure of the CdS/Cu(In,Ga)Se ₂ Interface of KF- and RbF-Treated Samples by Kelvin Probe and Photoelectron Yield Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7745-7755.	8.0	12
5	Chemical Interaction at the MoO ₃ /CH ₃ NH ₃ PbI ₃ Cl _x Interface. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17085-17092.	8.0	13
6	Decay mechanisms in CdS-buffered Cu(In,Ga)Se ₂ thin-film solar cells after exposure to thermal stress: Understanding the role of Na. <i>Progress in Photovoltaics: Research and Applications</i> , 2021, 29, 1034-1053.	8.1	4
7	Elucidating the Effect of the Different Buffer Layers on the Thermal Stability of CIGSe Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2021, 11, 648-657.	2.5	2
8	Bulk photovoltaic effect in carbon-doped gallium nitride revealed by anomalous surface photovoltage spectroscopy. <i>Physical Review B</i> , 2020, 101, .	3.2	9
9	Water Adsorption Enhances Electrical Conductivity in Transparent P-Type CuI. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48741-48747.	8.0	15
10	Tunability of MoO ₃ Thin-Film Properties Due to Annealing in Situ Monitored by Hard X-ray Photoemission. <i>ACS Omega</i> , 2019, 4, 10985-10990.	3.5	20
11	Waveguide effect enhancement of local photocurrent in hybrid organic/inorganic solar cells. <i>Nanotechnology</i> , 2019, 30, 245401.	2.6	0
12	Optical Properties of Thin Films of Haycockite. <i>MRS Advances</i> , 2019, 4, 2023-2033.	0.9	1
13	Transient and modulated charge separation at CuInSe ₂ /C60 and CuInSe ₂ /ZnPc hybrid interfaces. <i>Applied Surface Science</i> , 2017, 396, 366-374.	6.1	10
14	CuInSe ₂ nanostructures prepared by chemical close-spaced vapor transport for hybrid photovoltaic devices. <i>Thin Solid Films</i> , 2017, 633, 185-192.	1.8	2
15	Effects of annealing on elemental composition and quality of CZTSSe thin films obtained by spray pyrolysis. <i>Surface Engineering and Applied Electrochemistry</i> , 2016, 52, 509-514.	0.8	5
16	Advantageous light management in Cu(In,Ga)Se ₂ superstrate solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 150, 76-81.	6.2	24
17	Indium tin oxide thin-films prepared by vapor phase pyrolysis for efficient silicon based solar cells. <i>Thin Solid Films</i> , 2016, 610, 35-41.	1.8	15
18	X-ray irradiation induced effects on the chemical and electronic properties of MoO ₃ thin films. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2016, 212, 50-55.	1.7	23

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19	Photovoltaic structures ITO/SiO ₂ /n-Si of increased efficiency. Surface Engineering and Applied Electrochemistry, 2016, 52, 284-288.	0.8	3
20	Effective Mg:Ag / MoO ₃ recombination zone for tandem organic photovoltaic devices. Materials Research Society Symposia Proceedings, 2015, 1737, 32.	0.1	0
21	Electronic transitions and band offsets in C ₆₀ :SubPc and C ₆₀ :MgPc on MoO ₃ studied by modulated surface photovoltage spectroscopy. Journal of Applied Physics, 2015, 118, .	2.5	7
22	Silicon carbide nanolayers as a solar cell constituent. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 184-188.	1.8	10
23	Hybrid solar cells with ZnO-nanorods and dry processed small molecule absorber. Applied Physics Letters, 2014, 104, .	3.3	19
24	Cu _{1-x} F ₂ S ₂ from the new metastable sphalerite to the stable chalcopyrite phase. Physica Status Solidi (B): Basic Research, 2014, 251, 224-228.	1.5	3
25	Hole blocking Pbl ₂ /CH ₃ NH ₃ Pbl ₃ interface. Physica Status Solidi - Rapid Research Letters, 2014, 08, 763-766.	2.4	46
26	Optical constants of diindenoperylene in the dependence of preparation temperature and pressure. Thin Solid Films, 2013, 534, 255-259.	1.8	4
27	A comparative study of (ZnO, In ₂ O ₃ : SnO ₂ , SnO ₂)/CdS/CdTe/(Cu)/Ni heterojunctions. Thin Solid Films, 2013, 535, 244-248.	1.8	10
28	Charge carrier transport in ZnO/CdS/CdTe/(Cu)/Ni heterojunctions. Thin Solid Films, 2013, 535, 241-243.	1.8	6
29	Low-temperature Photoluminescence Studies of CdTe Thin Films Deposited on CdS/ZnO/Glass Substrates. Materials Research Society Symposia Proceedings, 2013, 1538, 261-267.	0.1	0
30	(T-x) phase diagram of the CuSbS ₂ -CuInS ₂ system and solubility limit of Sb in CuInS ₂ . Crystal Research and Technology, 2013, 48, 641-648.	1.3	2
31	The investigation of TCO/CdS/CdTe heterojunctions by C-U and C-f measurements: Experiment and modeling. , 2013, , .		0
32	AgGaSe ₂ thin films grown by chemical close-spaced vapor transport for photovoltaic applications: structural, compositional and optical properties. Journal of Physics Condensed Matter, 2012, 24, 175801.	1.8	8
33	Stable Organic Solar Cells with Mg:Ag Contacts. Energy Procedia, 2012, 31, 96-101.	1.8	3
34	Metal-Free Photocatalytic Graphitic Carbon Nitride on p-Type Chalcopyrite as a Composite Photocathode for Light-Induced Hydrogen Evolution. ChemSusChem, 2012, 5, 1227-1232.	6.8	53
35	Transport properties of CuGaSe ₂ -based thin-film solar cells as a function of absorber composition. Thin Solid Films, 2011, 519, 7304-7307.	1.8	3
36	Engineering of hybrid interfaces in organic photovoltaic devices. Solar Energy Materials and Solar Cells, 2011, 95, 1489-1494.	6.2	13

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37	CuGaSe chalcopyrite-related thin films grown by chemical close-spaced vapor transport (CCSVT) for photovoltaic application: Surface- and bulk material properties, oxidation and surface Ge-doping. Solar Energy Materials and Solar Cells, 2011, 95, 1555-1580.	6.2	19
38	Formation of charge-selective Mg ²⁺ /Ag electrodes to CuPc:C60 blend layers. Applied Physics Letters, 2010, 97, .	3.3	18
39	Germanium doping of wider-band-gap CuGaSe_2 . Local and electronic structure. Physical Review B, 2010, 81, .	3.3	25
40	Three-dimensional structure of the buffer/absorber interface in CdS/CuGaSe ₂ based thin film solar cells. Applied Physics Letters, 2009, 95, 173502.	3.3	25
41	Formation of the charge selective contact in solar cells with extremely thin absorber based on ZnO-nanorod/In ₂ S ₃ /CuSCN. Journal of Applied Physics, 2009, 105, .	2.5	26
42	OVPD [®] technology. EPJ Applied Physics, 2009, 46, 12506.	0.7	4
43	Performance and Transport Properties of Phthalocyanine:Fullerene Organic Solar Cells. Springer Proceedings in Physics, 2009, , 195-198.	0.2	1
44	Organic donor, acceptor and buffer layers of small molecules prepared by OVPD technique for photovoltaics. Renewable Energy, 2008, 33, 254-258.	8.9	18
45	Intensity and temperature dependent characterization of eta solar cell. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1713-1718.	1.8	9
46	Fine tailored interpenetrating donor-acceptor morphology by OVPD for organic solar cells. Thin Solid Films, 2008, 516, 7160-7166.	1.8	19
47	Surface photovoltage analysis of thin CdS layers on polycrystalline chalcopyrite absorber layers by Kelvin probe force microscopy. Nanotechnology, 2008, 19, 145705.	2.6	32
48	The chemical and electronic surface and interface structure of CuGaSe ₂ thin-film solar cell absorbers. Applied Physics Letters, 2008, 93, 232104.	3.3	13
49	Current-voltage characteristics and transport mechanism of solar cells based on ZnO nanorods/In ₂ S ₃ •CuSCN. Applied Physics Letters, 2008, 93, .	3.3	43
50	The role of the CdS buffer layer in CuGaSe ₂ -based solar cells. Journal of Physics Condensed Matter, 2007, 19, 356222.	1.8	21
51	CuGaSe ₂ -Based Solar Cells with High Open Circuit Voltage. Materials Research Society Symposia Proceedings, 2007, 1012, 1.	0.1	7
52	Electron Spin Resonance and Ultra Violet (UV) Photoluminescence of Ge Implanted CuGaSe ₂ Thin Films Prepared by the CCSVT (Chemical Close-spaced Vapor Transport) Technique. Materials Research Society Symposia Proceedings, 2007, 1012, 1.	0.1	0
53	Effects of oxygen and illumination on the photovoltaic properties of organic solar cells based on phthalocyanine:fullerene bulk heterojunction. Applied Physics Letters, 2007, 90, 153511.	3.3	29
54	Formation of the physical vapor deposited CdS•Cu(In,Ga)Se ₂ interface in highly efficient thin film solar cells. Applied Physics Letters, 2006, 88, 143510.	3.3	34

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55	CuGaSe ₂ –CuGa ₃ Se ₅ phase transition in CCSVT-grown thin films. <i>Thin Solid Films</i> , 2006, 511-512, 623-627.	1.8	16
56	Solar cells based on CCSVT-grown CuGaSe ₂ absorber and device properties. <i>Thin Solid Films</i> , 2005, 480-481, 341-346.	1.8	13
57	Structural peculiarities of CCSVT-grown CuGaSe ₂ thin films. <i>Thin Solid Films</i> , 2005, 480-481, 352-357.	1.8	5
58	Monolayer passivation of the transparent electrode in organic solar cells. <i>Thin Solid Films</i> , 2005, 488, 270-273.	1.8	37
59	In situ X-ray photoelectron spectroscopy study of the oxidation of CuGaSe ₂ . <i>Surface Science</i> , 2005, 580, 80-94.	1.9	69
60	Effects of Ge-Implantation on the Photoluminescence of CuGaSe ₂ Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2005, 865, 5271.	0.1	1
61	High-Efficient ZnO/PVD-CdS/Cu(In,Ga)Se ₂ Thin Film Solar Cells: Formation of the Buffer-Absorber Interface and Transport Properties. <i>Materials Research Society Symposia Proceedings</i> , 2005, 865, 14251.	0.1	8
62	Cd ²⁺ ·NH ₃ treatment-induced formation of a CdSe surface layer on CuGaSe ₂ thin-film solar cell absorbers. <i>Applied Physics Letters</i> , 2005, 86, 222107.	3.3	19
63	CuGaSe ₂ thin films prepared by a novel CCSVT technique for photovoltaic application. <i>Thin Solid Films</i> , 2004, 451-452, 556-561.	1.8	33
64	Optimisation of the CBD CdS deposition parameters for ZnO/CdS/CuGaSe ₂ /Mo solar cells. <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 1849-1853.	4.0	30
65	Current transport in ZnO/ZnS/Cu(In,Ga)(S,Se) ₂ solar cell. <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 2037-2040.	4.0	27
66	Deposition and characterization of Ga ₂ Se ₃ thin films prepared by a novel chemical close-spaced vapour transport technique. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 8185-8193.	1.8	19
67	High-resolution work function imaging of single grains of semiconductor surfaces. <i>Applied Physics Letters</i> , 2002, 80, 2979-2981.	3.3	145
68	Contribution of the ZnSe/CuGaSe ₂ heterojunction in photovoltaic performances of chalcopyrite-based solar cells. <i>Thin Solid Films</i> , 2002, 403-404, 344-348.	1.8	9
69	A two-dimensional modeling of the fine-grained polycrystalline silicon thin-film solar cells. <i>Thin Solid Films</i> , 2002, 403-404, 258-262.	1.8	20
70	EBIC technique applied to polycrystalline silicon thin films: minority carrier diffusion length improvement by hydrogenation. <i>Thin Solid Films</i> , 2002, 403-404, 549-552.	1.8	14
71	Interface characterisation of ZnSe/CuGaSe ₂ heterojunction. <i>Solar Energy</i> , 2002, 72, 235-241.	6.1	5
72	Electrical and luminescent properties of CuGaSe ₂ crystals and thin films. <i>Solar Energy Materials and Solar Cells</i> , 2001, 70, 175-186.	6.2	24