

Indrajit Mukhopadhyay

List of Publications by Year in descending order

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155
papers

2,642
citations

186265

28
h-index

233421

45
g-index

158
all docs

158
docs citations

158
times ranked

3191
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Synthesis of Different Morphologies of MgO and Their Use as Solid Base Catalysts. Journal of Physical Chemistry C, 2011, 115, 12308-12316.	3.1	150
2	Structural, optical and electrical properties of spray-deposited CZTS thin films under a non-equilibrium growth condition. Journal Physics D: Applied Physics, 2012, 45, 445103.	2.8	144
3	Nanostructured SnS with inherent anisotropic optical properties for high photoactivity. Nanoscale, 2016, 8, 2293-2303.	5.6	123
4	Electrodeposition of Ti from TiCl ₄ in the ionic liquid 1-methyl-3-butyl-imidazolium bis (trifluoro) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 scanning tunneling microscopy. Electrochimica Acta, 2005, 50, 1275-1281.	5.2	95
5	Rectangular MgO microsheets with strong catalytic activity. Materials Chemistry and Physics, 2011, 129, 853-861.	4.0	87
6	Electrochemical Li Insertion in B-Doped Multiwall Carbon Nanotubes. Journal of the Electrochemical Society, 2002, 149, A39.	2.9	85
7	Easy and effective synthesis of micrometer-sized rectangular MgO sheets with very high catalytic activity. Catalysis Communications, 2010, 11, 537-541.	3.3	78
8	Micellar transitions in the aqueous solutions of a surfactant-like ionic liquid: 1-butyl-3-methylimidazolium octylsulfate. Physical Chemistry Chemical Physics, 2010, 12, 11728.	2.8	77
9	Electrodeposition of Ti Nanowires on Highly Oriented Pyrolytic Graphite from an Ionic Liquid at Room Temperature. Langmuir, 2003, 19, 1951-1953.	3.5	70
10	Core shell paraffin/silica nanocomposite: A promising phase change material for thermal energy storage. Renewable Energy, 2021, 167, 591-599.	8.9	62
11	Annealing influence over structural and optical properties of sprayed SnS thin films. Optical Materials, 2013, 35, 1693-1699.	3.6	60
12	Junction characteristics of chemically-derived graphene/p-Si heterojunction solar cell. Carbon, 2014, 67, 766-774.	10.3	58
13	Elucidating the effect of copper as a redox additive and dopant on the performance of a PANI based supercapacitor. Physical Chemistry Chemical Physics, 2015, 17, 878-887.	2.8	57
14	Preparation of MgO nano-rods with strong catalytic activity via hydrated basic magnesium carbonates. Materials Research Bulletin, 2011, 46, 2163-2167.	5.2	52
15	Mesoporous carbon-titania nanocomposites for high-power Li-ion battery anode material. Journal of Physics and Chemistry of Solids, 2010, 71, 511-514.	4.0	38
16	Molar optimization of spray pyrolyzed SnS thin films for photoelectrochemical applications. Journal of Alloys and Compounds, 2015, 619, 458-463.	5.5	35
17	Carbon photovoltaic cell. Carbon, 1997, 35, 863-864.	10.3	33
18	Optimization of photoelectrochemical performance in chemical bath deposited nanostructured CuO. Journal of Alloys and Compounds, 2017, 695, 3655-3665.	5.5	33

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19	Fabrication of long-ranged close-packed monolayer of silica nanospheres by spin coating. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 553, 520-527.	4.7	33
20	Electrochemical in situ STM study of Al and Ti-Al alloy electrodeposition on Au(111) from a room temperature molten salt electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5225-5231.	2.8	31
21	Study of the junction and carrier lifetime properties of a spray-deposited CZTS thin-film solar cell. <i>Semiconductor Science and Technology</i> , 2013, 28, 055001.	2.0	31
22	Facile, Noncyanide Based Etching of Spray Deposited Cu ₂ ZnSnS ₄ Thin Films for Secondary Phase Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2302-2308.	6.7	31
23	Low temperature-controlled synthesis of hierarchical Cu ₂ O/Cu(OH) ₂ /CuO nanostructures for energy applications. <i>Journal of Materials Research</i> , 2019, 34, 3173-3185.	2.6	31
24	Self-standing, hybrid three-dimensional-porous MoS ₂ /Ni ₃ S ₂ foam electrocatalyst for hydrogen evolution reaction in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 7759-7771.	7.1	31
25	Semiconducting multichannel-multilayer camphoric tubules. <i>Carbon</i> , 1995, 33, 331-333.	10.3	30
26	Controlled Growth of Polyaniline Fractals on HOPG through Potentiodynamic Electropolymerization. <i>Langmuir</i> , 2012, 28, 5893-5899.	3.5	30
27	Electrochemical and electronic properties of flower-like MoS ₂ nanostructures in aqueous and ionic liquid media. <i>RSC Advances</i> , 2015, 5, 57943-57949.	3.6	30
28	Growth of titanium dioxide nanorod over shape memory material using chemical vapor deposition for energy conversion application. <i>Materials Today: Proceedings</i> , 2020, 28, 475-479.	1.8	30
29	Preparation of CdTe thin film by electrodeposition in butyl methyl imidazolium bath at 80°C. <i>Journal of Electroanalytical Chemistry</i> , 2014, 713, 70-76.	3.8	26
30	Nanoparticulate CdS 2D array by chemical bath deposition: Characterization and optoelectronic study. <i>Materials Chemistry and Physics</i> , 2019, 226, 26-33.	4.0	26
31	Heterointerfaces of nickel sulphides and selenides on Ni-foam as efficient bifunctional electrocatalysts in acidic environments. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12733-12746.	10.3	26
32	A photoelectrochemical solar cell from camphoric p-carbon semiconductor. <i>Solar Energy Materials and Solar Cells</i> , 1997, 45, 35-41.	6.2	25
33	Highly Photoactive and Photo-Stable Spray Pyrolyzed Tenorite CuO Thin Films for Photoelectrochemical Energy Conversion. <i>Journal of the Electrochemical Society</i> , 2016, 163, H1195-H1203.	2.9	25
34	Unravelling camphor mediated synthesis of TiO ₂ nanorods over shape memory alloy for efficient energy harvesting. <i>Applied Surface Science</i> , 2021, 541, 148489.	6.1	25
35	Crystallization of Spherical Common Salt in the Submillimeter Size Range without Habit Modifier. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 12197-12203.	3.7	24
36	Development of highly sensitive H ₂ O ₂ redox sensor from electrodeposited tellurium nanoparticles using ionic liquid. <i>Biosensors and Bioelectronics</i> , 2019, 132, 319-325.	10.1	24

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37	Thermal decomposition of hydromagnesite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 107, 439-445.	3.6	23
38	Vertically oriented few-layer graphene as an electron field-emitter. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1817-1821.	1.8	22
39	Ultra-stable silica/exfoliated graphite encapsulated n-hexacosane phase change nanocomposite: A promising material for thermal energy storage applications. <i>Energy</i> , 2022, 250, 123729.	8.8	22
40	Electrochemical Li insertion into single-walled carbon nanotubes prepared by graphite arc-discharge method. <i>Physica B: Condensed Matter</i> , 2002, 323, 130-132.	2.7	21
41	Effect of initial bath condition and post-annealing on co-electrodeposition of Cu ₂ ZnSnS ₄ . <i>Materials Chemistry and Physics</i> , 2016, 171, 63-72.	4.0	21
42	Revealing the charge transport mechanism of a photoelectrochemical cell: analysis using A.C. voltage perturbation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20900-20908.	2.8	20
43	Thickness induced metal–nonmetal transition in ultrathin electrodeposited Ge films. <i>Chemical Physics Letters</i> , 2003, 377, 223-228.	2.6	18
44	Electrodeposition of Si from an Ionic Liquid Bath at Room Temperature in the Presence of Water. <i>Langmuir</i> , 2017, 33, 1599-1604.	3.5	18
45	Influence of current collector electrode on the capacitive performance of electrodeposited PANI: insight gained from frequency and time domain analysis. <i>RSC Advances</i> , 2014, 4, 53740-53751.	3.6	17
46	Effect of vacuum and sulphur annealing on the structural properties of spray deposited Cu ₂ SnS ₃ thin films. <i>Vacuum</i> , 2018, 158, 263-270.	3.5	17
47	In-situ preparation of titania/graphene nanocomposite via a facile sol–gel strategy: A promising anodic material for Li-ion batteries. <i>Materials Letters</i> , 2021, 300, 130143.	2.6	17
48	Theoretical simulation of photovoltaic response of graphene-on-semiconductors. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 1159-1163.	2.3	16
49	Elucidating Different Mass Flow Direction Induced Polyaniline–Ionic Liquid Interface Properties: Insight Gained from DC Voltammetry and Impedance Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3235-3242.	2.6	16
50	Strong light absorption capability directed by structured profile of vertical Si nanowires. <i>Optical Materials</i> , 2017, 73, 449-458.	3.6	16
51	Theoretical analysis of a Pico-hydro power system for energy generation in rural or isolated area. , 2014, , .		15
52	Effective Photocurrent Enhancement in Nanostructured CuO by Organic Dye Sensitization: Studies on Charge Transfer Kinetics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3690-3699.	3.1	15
53	Controlled Island Formation of Large-Area Graphene Sheets by Atmospheric Chemical Vapor Deposition: Role of Natural Camphor. <i>ACS Omega</i> , 2019, 4, 8758-8766.	3.5	15
54	Effective light polarization insensitive and omnidirectional properties of Si nanowire arrays developed on different crystallographic planes. <i>Nanotechnology</i> , 2019, 30, 124002.	2.6	14

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55	Controlled etching of silica nanospheres monolayer for template application: A systematic study. <i>Applied Surface Science</i> , 2020, 500, 144050.	6.1	14
56	Interplay between enhanced charge storage and charge transfer mechanism in Cu doped PANI: The role of surface morphology. <i>Journal of Electroanalytical Chemistry</i> , 2015, 745, 88-97.	3.8	13
57	Electrical properties modulation in spray pyrolysed Cu ₂ SnS ₃ thin films through variation of copper precursor concentration for photovoltaic application. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 136, 35-43.	5.5	13
58	Role of nanowire length on the performance of a self-driven NIR photodetector based on mono/bi-layer graphene (camphor)/Si-nanowire Schottky junction. <i>Nanotechnology</i> , 2020, 31, 225208.	2.6	13
59	Photoelectrochemical studies of photoactive lead oxide prepared by the "Potential pulse coupled potentiodynamic anodization technique" in alkaline medium. <i>Journal of Electroanalytical Chemistry</i> , 1994, 379, 531-534.	3.8	12
60	Effect of Annealing on Structural Properties of Electrodeposited CZTS Thin Films. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2016, 33, 2-6.	3.2	12
61	Transition Metal Dichalcogenide Anchored in 3D Nickel Framework with Graphene Support for Efficient Electrocatalytic Hydrogen Evolution. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800168.	5.3	12
62	Systematic investigation of close-packed silica nanospheres monolayer under sintering conditions. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1411-1419.	5.7	12
63	On the electrical and interface properties of nanostructured CdTe Schottky diodes electrodeposited from an ionic liquid medium. <i>Journal of Applied Physics</i> , 2014, 115, 224506.	2.5	11
64	Review "Inorganic Solid State Electrolytes: Insights on Current and Future Scope. <i>Journal of the Electrochemical Society</i> , 2021, 168, 080536.	2.9	11
65	Photoelectrochemical study of electrochemically synthesized CdTe thin films from acetate-anion based ionic liquid bath. <i>Electrochimica Acta</i> , 2020, 331, 135437.	5.2	10
66	Comparative study of heat transfer characteristics of a tube equipped with X-shaped and twisted tape insert. <i>Materials Today: Proceedings</i> , 2020, 28, 1175-1180.	1.8	10
67	Photoelectrochemical studies of oxide film of PbO _n + SnO _n obtained by potentiodynamic anodisation of Pb + Sn alloy electrode in alkaline medium. <i>Journal of Electroanalytical Chemistry</i> , 1996, 401, 139-146.	3.8	9
68	Morphology of potassium chloride in aqueous and in formamide solution " An experimental and computational investigation. <i>Canadian Journal of Chemistry</i> , 2009, 87, 514-522.	1.1	9
69	Studies on Surface Functionalized Single Wall Carbon Nanotube for Electrochemical Double Layer Capacitor Application. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 4089-4094.	0.9	9
70	Unraveling the photoelectrochemical properties of ionic liquids: cognizance of partially reversible redox activity. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22735-22744.	2.8	9
71	Fabrication of Bi-Layer Graphene and Theoretical Simulation for Its Possible Application in Thin Film Solar Cell. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 3022-3027.	0.9	9
72	Social benefit cost and life cycle cost analysis of sustainable biodiesel bus transport in India. <i>International Journal of Sustainable Engineering</i> , 2021, 14, 123-136.	3.5	9

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73	Fabrication of silicon nanohorns via soft lithography technique for photoelectrochemical application. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16404-16413.	7.1	9
74	Fabrication of silver nanodome embedded zinc oxide nanorods for enhanced Raman spectroscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 639, 128336.	4.7	9
75	Photoelectrochemical laser imaging on anodically prepared γ -PbO thin films. <i>Journal of Solid State Electrochemistry</i> , 1999, 3, 141-147.	2.5	8
76	Schottky junction solar cells based on non-stoichiometric PbOx films. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 025102.	2.8	8
77	Electrodeposition of CdTe from BmimCl: Influence of substrate and electrolytic bath. <i>Journal of Electroanalytical Chemistry</i> , 2018, 814, 59-65.	3.8	8
78	Solar to chemical energy conversion using titania nanorod photoanodes augmented by size distribution of plasmonic Au-nanoparticle. <i>Materials Chemistry and Physics</i> , 2019, 231, 322-334.	4.0	8
79	Highly stable n-hexacosane loaded exfoliated graphite nanosheets for enhanced thermal energy storage application. <i>Journal of Energy Storage</i> , 2022, 48, 103903.	8.1	8
80	Surface modification by the potential delay technique to obtain a photoactive PbO film. <i>Surface Science</i> , 1997, 384, 234-239.	1.9	7
81	Anodic oxidation of Pb-In alloys in alkaline solution: Effect of In on electrochemical and photoelectrochemical behaviour of lead oxide. <i>Solar Energy Materials and Solar Cells</i> , 1998, 53, 83-94.	6.2	7
82	Generation of Nanostructures by the Aggregation of Porphyrin Derivatives with Long Alkane Chain in Mix-Solvent. <i>Journal of Nanomaterials</i> , 2007, 2007, 1-8.	2.7	7
83	Catalyst-free synthesis of silicon nanowires by oxidation and reduction process. <i>Journal of Materials Science</i> , 2014, 49, 3592-3597.	3.7	7
84	Influence of the magnitude and direction of electric field on the transport and growth property of deposited polyaniline films. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 453-463.	2.5	7
85	In situ growth of CdTe nanostructures from a novel electrodeposition bath: tuning of electrical properties and reuse of ionic liquid. <i>New Journal of Chemistry</i> , 2015, 39, 1979-1985.	2.8	7
86	Impedance Analysis of Inherently Redox-Active Ionic-Liquid-Based Photoelectrochemical Cells: Charge-Transfer Mechanism in the Presence of an Additional Redox Couple. <i>ChemPhysChem</i> , 2015, 16, 1750-1756.	2.1	6
87	Structure, optical and electronic properties of solid solution Zn(O,S) thin films and the effect of annealing. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	6
88	Determining the confined optical length of high index vertical Si nanoforest arrays for photonic applications. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	6
89	Articulating effect of low copper content on structure and optoelectronic properties of spray deposited Cu ₂ ZnSnS ₄ thin films – From experiment and first-principles investigations. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 263, 114912.	3.5	6
90	Cutting edge cleaning solution for PV modules. <i>Materials Today: Proceedings</i> , 2021, 39, 2005-2008.	1.8	6

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91	Electrodeposited Ni-Mo Surface Alloy @ Ni-Foam for Electrocatalytic Hydrogen Generation in Acidic and Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2022, 169, 056511.	2.9	6
92	Investigation of semiconducting parameters of Pb-Sn alloy oxide-electrolyte interface by Butler Gartner model. <i>Solar Energy Materials and Solar Cells</i> , 1997, 45, 141-149.	6.2	5
93	Application of the Gartner model to elucidate parameters adversely affecting photoactivity of thin film PbO in electrolyte. <i>Electrochimica Acta</i> , 1997, 42, 67-72.	5.2	5
94	Different methods of preparing electrode from single-wall carbon nanotubes and their effect on the Li ion insertion process. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 715-720.	2.5	5
95	Transparent Conductive Multiwall Carbon Nanotubes-Polymer Composite for Electrode Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 2816-2822.	0.9	5
96	Electrodeposition of CdTe thin film from acetate-based ionic liquid bath. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	5
97	Preparation and characterization of Cu ₂ SnS ₃ thin films by electrodeposition. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	5
98	SnS and SnS ₂ films by direct-coating from same molecular ink. <i>Materials Science in Semiconductor Processing</i> , 2021, 131, 105852.	4.0	5
99	Thermal crowning mechanism in gold-silica nanocomposites: plasmonic-photonic pairing in archetypal two-dimensional structures. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17197-17207.	2.8	5
100	Surface characterisation of anodic films of Pb-Sn alloy electrodes: the effect of Sn on the photoelectrochemical properties. <i>Materials Chemistry and Physics</i> , 1997, 49, 169-173.	4.0	4
101	Synthesis and characterization of spray deposited CZTS thin films for photo-electrochemical application. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
102	Photoelectrochemical Properties of PbO Films Prepared by Spray Pyrolysis. <i>Journal of the Electrochemical Society</i> , 2019, 166, H698-H703.	2.9	4
103	Electrochemical deposition of Si nano-spheres from water contaminated ionic liquid at room temperature: Structural evolution and growth mechanism. <i>Journal of Electroanalytical Chemistry</i> , 2022, 910, 116175.	3.8	4
104	Semiconducting properties of the anodic films grown over PbIn alloy electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 2605-2615.	6.2	3
105	Plasmon Enhanced Light Trapping to Improve Efficiency of Dye-Sensitized Solar Cell. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 2624-2629.	0.9	3
106	Electrical Characteristics of Horizontally and Vertically Oriented Few-Layer Graphene on Si-Based Dielectrics. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 6246-6251.	0.9	3
107	Energy positive solar LED streetlight system. , 2017, , .		3
108	Effect of annealing atmosphere on microstructure, optical and electronic properties of spray-pyrolysed In-doped Zn(O,S) thin films. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	1.7	3

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109	Initializing the commercial viability of ionic liquids for the electrodeposition techniques: A detailed procedure for preparing CdTe thin films with high photo-absorption. <i>Journal of Electroanalytical Chemistry</i> , 2019, 847, 113233.	3.8	3
110	Electrochemical-thermal modelling of commercially available cylindrical lithium-ion cells for the tropical climate of India. <i>Materials Today: Proceedings</i> , 2021, 47, 647-651.	1.8	3
111	Hydrothermal synthesis of silicon nanosphere embedded on carbon nanotubes for high-performance lithium-ion batteries. <i>International Journal of Nanotechnology</i> , 2021, 18, 483.	0.2	3
112	Role of surface passivation on the development of camphor based Graphene/SiNWAs schottky diode. <i>Materials Today: Proceedings</i> , 2021, 45, 3789-3794.	1.8	3
113	Effect of Azimuth and Tilt Angle on Ideally Designed Rooftop Solar PV Plant for Energy Generation. , 2021, , .		3
114	Techno-Economic-Environment Analysis of Solar PV Smart Microgrid for Sustainable Rural Electrification in Agriculture community. , 2021, , .		3
115	Controlled restructuring of bidisperse silica nanospheres for size-selective nanowire growth. <i>Materials Chemistry and Physics</i> , 2021, 273, 125063.	4.0	3
116	Electrodeposition of silicon nanospheres on rGO coated copper substrate for lithium-ion batteries. <i>Materials Today: Proceedings</i> , 2021, 47, 691-696.	1.8	3
117	Pseudocapacitive Energy Storage in Copper Oxide and Hydroxide Nanostructures Casted Over Nickel-Foam. <i>Springer Proceedings in Energy</i> , 2021, , 1383-1391.	0.3	3
118	A powerful approach to develop nitrogen-doped graphene sheets: theoretical and experimental framework. <i>Journal of Materials Science</i> , 0, , .	3.7	3
119	Hydrothermally grown MoS ₂ nanosheets under non-equilibrium condition and its electrocatalytic hydrogen evolution performance. <i>Journal of Materials Research</i> , 2022, 37, 1892-1903.	2.6	3
120	Synthesis of vapor-grown carbon fibers from camphor without catalyst and their characterization. <i>Journal of Materials Research</i> , 2003, 18, 2033-2038.	2.6	2
121	Spray pyrolyzed Cu ₂ SnS ₃ thin films for photovoltaic application. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
122	Effect of annealing temperature on the PEC performance of electrodeposited copper oxides. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
123	Bidisperse silica nanoparticles close-packed monolayer on silicon substrate by three step spin method. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
124	Inexpensive Cu ₂ SnS ₃ grown by room-temperature aqueous bath electrodeposition for thin film solar cells. <i>International Journal of Modern Physics B</i> , 2018, 32, 1840071.	2.0	2
125	Raman study of galvanostatically deposited CdTe thin films from BmimCl. <i>Physica B: Condensed Matter</i> , 2019, 568, 36-41.	2.7	2
126	The Effect of Substrate Temperature on the Phase Formation of Spray-Pyrolysed Ternary Cu ₂ SnS ₃ for Thin-Film Solar Cells. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 1675-1678.	1.5	2

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127	Titania coated Zinc Oxide nanorods: A study of structural and optical properties for photocatalytic applications. <i>Materials Today: Proceedings</i> , 2021, 47, 682-685.	1.8	2
128	Effect of copper pretreatment on optical and electrical properties of camphor-based graphene by chemical vapour deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 8397-8408.	2.2	2
129	The effects of some components on the electrodeposition process used for solar cell applications. <i>Heliyon</i> , 2021, 7, e07554.	3.2	2
130	Pyroelectric properties of electrochemically anodized PbO thin films. <i>Materials Research Bulletin</i> , 2022, 146, 111609.	5.2	2
131	p-CuO films and photoelectrochemical corrosion. <i>Journal of Electroanalytical Chemistry</i> , 2022, 919, 116555.	3.8	2
132	PbOx/Au-Pd core-shell structures for Schottky junction solar cells. , 2015, , .		1
133	Reinforcement of Zn(O,S) buffer layer for efficient band matching in a kesterite (Cu ₂ ZnSnS ₄) solar cell and its analysis using simulation tool for the application in energy harvesting. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
134	One pot synthesis of pure micro/nano photoactive $\hat{\pm}$ -PbO crystals. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
135	Effect of growth temperature and precursor concentration on synthesis of CVD-graphene from camphor. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
136	Electrochemical deposition of cabbage-like lead microstructures on fluorine-doped tin oxide for oxygen sensor application. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 159-167.	2.5	1
137	Synthesis and investigation of the structural properties of vanadium pentoxide nano thread at low temperature. <i>Materials Today: Proceedings</i> , 2021, 47, 597-600.	1.8	1
138	Nanogrids in India: A conceptual solution for off grid/rural electrification. , 2021, , .		1
139	Snail Trail Impact on Rooftop Solar PV Plant Energy Generation. , 2021, , .		1
140	A solid carbon source based high performance mono/bi layer graphene/SiNWs heterojunction NIR photodetector. , 2019, , .		1
141	DC and DP polarographic studies to explore the intermediate species form and operating conditions effects on electrodeposition of Cu from Cu(II) in the presence of alizarin red S. <i>Chemical Papers</i> , 2022, 76, 1745.	2.2	1
142	Effect of Doping Concentration on Grain Boundary Conductivity of Samaria Doped Ceria Composites. <i>Journal of the Electrochemical Society</i> , 2021, 168, 124515.	2.9	1
143	Surface Modification by Potential Delay to Obtain a Photoactive PbO Film. <i>Materials and Manufacturing Processes</i> , 1997, 12, 925-933.	4.7	0
144	Electrochemical lithium insertion of heat treated and chemically modified multi-wall carbon nanotubes. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	0

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145	Fabrication of multiple layer graphene films on Cu ²⁺ •SiO ₂ •Si substrate by hot-filament chemical vapor deposition. , 2013, , .		0
146	On the Applications of Newly Architected CdTe Nanostructures from Ionic Liquid Medium. ECS Transactions, 2015, 69, 1-6.	0.5	0
147	Towards the fabrication of high quality superstructures from ionic liquid electrolytic bath. Proceedings of SPIE, 2015, , .	0.8	0
148	Solid-solution Zn(O,S) thin films: Potential alternative buffer layer for Cu ₂ ZnSnS ₄ solar cells. AIP Conference Proceedings, 2018, , .	0.4	0
149	Achieving sub-50nm controlled diameter of aperiodic Si nanowire arrays by ultrasonic catalyst removal for photonic applications. AIP Conference Proceedings, 2018, , .	0.4	0
150	TiO ₂ nanorods thin-films embedded with gold nanoparticles for enhanced photocatalytic activity. AIP Conference Proceedings, 2018, , .	0.4	0
151	Preface: International Conference on Nanomaterials for Energy Conversion and Storage Applications (NECSA 2018). AIP Conference Proceedings, 2018, , .	0.4	0
152	Photoactive lead oxide thin films by spray pyrolysis. AIP Conference Proceedings, 2018, , .	0.4	0
153	Insight into the Specific Adsorption Properties of Pristine Ionic Liquid: Temperature Dependent Flatband Potential Study. ECS Transactions, 2020, 97, 731-736.	0.5	0
154	Electrodeposition of Stoichiometric CdTe from a Reusable Ionic Liquid Bath. ECS Transactions, 2020, 97, 479-484.	0.5	0
155	Electrodeposition of Si on Cu Substrate As Anode for Li-Ion Battery Application. ECS Meeting Abstracts, 2021, MA2021-02, 380-380.	0.0	0