

# Pramod Patil

## List of Publications by Year in descending order

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246  
papers

8,987  
citations

36203

51  
h-index

62479

80  
g-index

251  
all docs

251  
docs citations

251  
times ranked

10474  
citing authors

#	ARTICLE	IF	CITATIONS
1	Versatility of chemical spray pyrolysis technique. <i>Materials Chemistry and Physics</i> , 1999, 59, 185-198.	2.0	607
2	CZTS based thin film solar cells: a status review. <i>Materials Technology</i> , 2013, 28, 98-109.	1.5	276
3	Fabrication of nanostructured ZnO thin films based NO <sub>2</sub> gas sensor via SILAR technique. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 1185-1193.	4.0	205
4	Ultrathin Atomic Layer Deposited TiO <sub>2</sub> for Surface Passivation of Hydrothermally Grown 1D TiO <sub>2</sub> Nanorod Arrays for Efficient Solid-State Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2015, 27, 1541-1551.	3.2	170
5	Controlled growth of ZnO nanorod arrays via wet chemical route for NO <sub>2</sub> gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1195-1201.	4.0	154
6	Electrospinning: A versatile technique for making of 1D growth of nanostructured nanofibers and its applications: An experimental approach. <i>Applied Surface Science</i> , 2017, 423, 641-674.	3.1	152
7	In situ processed gold nanoparticle-embedded TiO <sub>2</sub> nanofibers enabling plasmonic perovskite solar cells to exceed 14% conversion efficiency. <i>Nanoscale</i> , 2016, 8, 2664-2677.	2.8	143
8	Recent advancements in silica nanoparticles based technologies for removal of dyes from water. <i>Colloids and Interface Science Communications</i> , 2019, 30, 100181.	2.0	130
9	Ce doped NiO nanoparticles as selective NO <sub>2</sub> gas sensor. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 114, 28-35.	1.9	123
10	Efficient electrochromic performance of nanoparticulate WO <sub>3</sub> thin films. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3722.	2.7	120
11	Investigations on silver/polyaniline electrodes for electrochemical supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11886.	1.3	119
12	Synthesis and characterization of Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films by SILAR method. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 735-740.	1.9	118
13	Low-Cost Electrospun Highly Crystalline Kesterite Cu <sub>2</sub> ZnSnS <sub>4</sub> Nanofiber Counter Electrodes for Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1688-1696.	4.0	112
14	Nanoarchitectures in dye-sensitized solar cells: metal oxides, oxide perovskites and carbon-based materials. <i>Nanoscale</i> , 2018, 10, 4987-5034.	2.8	108
15	Novel synthesis of kesterite Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoflakes by successive ionic layer adsorption and reaction technique: Characterization and application. <i>Electrochimica Acta</i> , 2012, 66, 216-221.	2.6	105
16	Surfactant free most probable TiO <sub>2</sub> nanostructures via hydrothermal and its dye sensitized solar cell properties. <i>Scientific Reports</i> , 2013, 3, 3004.	1.6	97
17	Impact of collected sunlight on ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles for photocatalytic application. <i>Journal of Colloid and Interface Science</i> , 2018, 527, 289-297.	5.0	96
18	Towards environmentally benign approaches for the synthesis of CZTSSe nanocrystals by a hot injection method: a status review. <i>Chemical Communications</i> , 2014, 50, 11258.	2.2	94

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19	Insights into kesterite's back contact interface: A status review. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 109911.	3.0	91
20	Surfactant-mediated growth of nanostructured zinc oxide thin films via electrodeposition and their photoelectrochemical performance. <i>Nanotechnology</i> , 2008, 19, 325706.	1.3	85
21	Characterization and NO <sub>2</sub> gas sensing properties of spray pyrolyzed SnO <sub>2</sub> thin films. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 127, 38-46.	2.6	84
22	Perovskite solar cells: In pursuit of efficiency and stability. <i>Materials and Design</i> , 2017, 136, 54-80.	3.3	83
23	PbS quantum dot sensitized anatase TiO <sub>2</sub> nanocorals for quantum dot-sensitized solar cell applications. <i>Dalton Transactions</i> , 2012, 41, 6130.	1.6	82
24	Nanocoral architecture of TiO <sub>2</sub> by hydrothermal process: Synthesis and characterization. <i>Applied Surface Science</i> , 2011, 257, 9737-9746.	3.1	79
25	Electrochemical supercapacitor electrode material based on polyacrylic acid/polypyrrole/silver composite. <i>Electrochimica Acta</i> , 2013, 105, 569-577.	2.6	79
26	Preparation, characterization of 1D ZnO nanorods and their gas sensing properties. <i>Ceramics International</i> , 2018, 44, 3333-3340.	2.3	77
27	Synthesis, Characterization of Hydrothermally Grown MWCNT@TiO <sub>2</sub> Photoelectrodes and Their Visible Light Absorption Properties. <i>ECS Journal of Solid State Science and Technology</i> , 2012, 1, M15-M23.	0.9	76
28	Recent advances in synthesis of Cu <sub>2</sub> FeSnS <sub>4</sub> materials for solar cell applications: A review. <i>Solar Energy Materials and Solar Cells</i> , 2018, 182, 204-219.	3.0	75
29	An Mn Doped Polyaniline Electrode for Electrochemical Supercapacitor. <i>Journal of the Electrochemical Society</i> , 2011, 158, A653.	1.3	73
30	Enhanced electrochromic coloration in Ag nanoparticle decorated WO <sub>3</sub> thin films. <i>Electrochimica Acta</i> , 2013, 102, 358-368.	2.6	73
31	Novel Synthesis and Characterization of Mesoporous ZnO Nanofibers by Electrospinning Technique. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1207-1213.	3.2	73
32	Hydrothermal synthesis of rutile TiO <sub>2</sub> nanoflowers using Brønsted Acidic Ionic Liquid [BAIL]: Synthesis, characterization and growth mechanism. <i>CrystEngComm</i> , 2012, 14, 1920.	1.3	71
33	Photocatalytic degradation of methylene blue by hydrothermally synthesized CZTS nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 8186-8191.	1.1	70
34	Hydrothermal synthesis of rutile TiO <sub>2</sub> with hierarchical microspheres and their characterization. <i>CrystEngComm</i> , 2011, 13, 6349.	1.3	69
35	CdS-sensitized TiO <sub>2</sub> nanocorals: hydrothermal synthesis, characterization, application. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1652-1658.	1.6	69
36	High performing smart electrochromic device based on honeycomb nanostructured h-WO <sub>3</sub> thin films: hydrothermal assisted synthesis. <i>Dalton Transactions</i> , 2015, 44, 2788-2800.	1.6	69

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37	Immobilization of invertase on chitosan coated $\text{Fe}_2\text{O}_3$ magnetic nanoparticles to facilitate magnetic separation. <i>Journal of Colloid and Interface Science</i> , 2016, 482, 159-164.	5.0	69
38	Electrochromic properties of dandelion flower like nickel oxide thin films. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1035-1039.	5.2	67
39	Mechanochemical growth of a porous $\text{ZnFe}_2\text{O}_4$ nano-flake thin film as an electrode for supercapacitor application. <i>RSC Advances</i> , 2015, 5, 45935-45942.	1.7	67
40	Symmetric supercapacitor: Sulphurized graphene and ionic liquid. <i>Journal of Colloid and Interface Science</i> , 2018, 527, 40-48.	5.0	65
41	Development of nanocoral-like $\text{Cd}(\text{SSe})$ thin films using an arrested precipitation technique and their application. <i>New Journal of Chemistry</i> , 2014, 38, 5964-5974.	1.4	62
42	Polyaniline-CuO hybrid nanocomposites: synthesis, structural, morphological, optical and electrical transport studies. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 3526-3535.	1.1	61
43	Quantum dot sensitized solar cell based on $\text{TiO}_2/\text{CdS}/\text{CdSe}/\text{ZnS}$ heterostructure. <i>Electrochimica Acta</i> , 2016, 203, 74-83.	2.6	60
44	Chemically synthesized PbS Nano particulate thin films for a rapid $\text{NO}_2$ gas sensor. <i>Materials Science-Poland</i> , 2016, 34, 204-211.	0.4	59
45	Waste tea residue as a low cost adsorbent for removal of hydralazine hydrochloride pharmaceutical pollutant from aqueous media: An environmental remediation. <i>Journal of Cleaner Production</i> , 2019, 206, 407-418.	4.6	59
46	Surfactant free microwave assisted synthesis of ZnO microspheres: Study of their antibacterial activity. <i>Applied Surface Science</i> , 2014, 307, 495-502.	3.1	57
47	Monolayer grafting of aminosilane on magnetic nanoparticles: An efficient approach for targeted drug delivery system. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 415-425.	5.0	57
48	Development of $\text{Ag}/\text{ZnO}/\text{FTO}$ thin film memristor using aqueous chemical route. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 523-526.	1.9	56
49	Spray pyrolyzed indium oxide thick films as $\text{NO}_2$ gas sensor. <i>Ceramics International</i> , 2016, 42, 16160-16168.	2.3	56
50	Design and electro-synthesis of 3-D nanofibers of $\text{MnO}_2$ thin films and their application in high performance supercapacitor. <i>Electrochimica Acta</i> , 2015, 176, 523-532.	2.6	54
51	Ultrasensitive Gold Nanostar-Polyaniline Composite for Ammonia Gas Sensing. <i>Langmuir</i> , 2015, 31, 13247-13256.	1.6	53
52	APTES monolayer coverage on self-assembled magnetic nanospheres for controlled release of anticancer drug Nintedanib. <i>Scientific Reports</i> , 2021, 11, 5674.	1.6	53
53	Photoelectrochemical properties of CdS sensitized ZnO nanorod arrays: Effect of nanorod length. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	52
54	Effective light harvesting in CdS nanoparticle-sensitized rutile $\text{TiO}_2$ microspheres. <i>Electrochimica Acta</i> , 2013, 90, 666-672.	2.6	52

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55	A selective ethanol gas sensor based on spray-derived Ag <sup>+</sup> /ZnO thin films. <i>Journal of Materials Science</i> , 2013, 48, 7274-7282.	1.7	51
56	A Simple Aqueous Precursor Solution Processing of Earth-Abundant Cu <sub>2</sub> /Sn <sub>3</sub> Absorbers for Thin-Film Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11603-11614.	4.0	51
57	In <sub>2</sub> O <sub>3</sub> nanocapsules for rapid photodegradation of crystal violet dye under sunlight. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 287-297.	5.0	47
58	Electrochromic properties of large-area and high-density arrays of transparent one-dimensional I <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> nanorods on indium-tin-oxide thin-films. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	46
59	Room temperature deposition of nanostructured Bi <sub>2</sub> Se <sub>3</sub> thin films for photoelectrochemical application: effect of chelating agents. <i>New Journal of Chemistry</i> , 2013, 37, 2821.	1.4	46
60	Farming of maize-like zinc oxide via a modified SILAR technique as a selective and sensitive nitrogen dioxide gas sensor. <i>RSC Advances</i> , 2016, 6, 90916-90922.	1.7	46
61	From nanocorals to nanorods to nanoflowers nanoarchitecture for efficient dye-sensitized solar cells at relatively low film thickness: All Hydrothermal Process. <i>Scientific Reports</i> , 2014, 4, 5451.	1.6	45
62	Photoelectrocatalytic degradation of methyl blue using sprayed WO <sub>3</sub> thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1629-1635.	1.1	45
63	Efficient maximization of coloration by modification in morphology of electrodeposited NiO thin films prepared with different surfactants. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 253-263.	1.2	43
64	Single-step synthesis of 3D nanostructured TiO <sub>2</sub> as a scattering layer for vertically aligned 1D nanorod photoanodes and their dye-sensitized solar cell properties. <i>CrystEngComm</i> , 2013, 15, 5660.	1.3	42
65	Novel synthesis of interconnected nanocubic PbS thin films by facile aqueous chemical route. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 3762-3770.	1.1	42
66	Secondary electrochemical doping level effects on polaron and bipolaron bands evolution and interband transition energy from absorbance spectra of PEDOT: PSS thin films. <i>Synthetic Metals</i> , 2016, 220, 661-666.	2.1	42
67	Synthesis and characterization of chemically grown electrochromic tungsten oxide. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 56, 177-183.	1.1	41
68	Hybrid Physicochemical Synthesis and Electrochromic Performance of WO <sub>3</sub> /MoO <sub>3</sub> Thin Films. <i>Electroanalysis</i> , 2014, 26, 2388-2397.	1.5	41
69	Greener synthesis of magnetite nanoparticles using green tea extract and their magnetic properties. <i>Materials Research Express</i> , 2017, 4, 096102.	0.8	41
70	Single step hydrothermal synthesis of hierarchical TiO <sub>2</sub> microflowers with radially assembled nanorods for enhanced photovoltaic performance. <i>RSC Advances</i> , 2014, 4, 47278-47286.	1.7	40
71	Effect of Concentration on the Charge Storage Kinetics of Nanostructured MnO <sub>2</sub> Thin-Film Supercapacitors Synthesized by the Hydrothermal Method. <i>Energies</i> , 2020, 13, 6124.	1.6	40
72	Improved solar cell performance of chemosynthesized cadmium selenide pebbles. <i>Electrochimica Acta</i> , 2013, 98, 244-254.	2.6	39

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73	Development of Ag/WO <sub>3</sub> /ITO thin film memristor using spray pyrolysis method. <i>Electronic Materials Letters</i> , 2015, 11, 944-948.	1.0	39
74	Photoelectrocatalysis of Cefotaxime Using Nanostructured TiO <sub>2</sub> Photoanode: Identification of the Degradation Products and Determination of the Toxicity Level. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 18152-18162.	1.8	38
75	Ru-Loaded mesoporous WO <sub>3</sub> microflowers for dual applications: enhanced H <sub>2</sub> S sensing and sunlight-driven photocatalysis. <i>Dalton Transactions</i> , 2018, 47, 16840-16845.	1.6	38
76	Chemically grown vertically aligned 1D ZnO nanorods with CdS coating for efficient quantum dot sensitized solar cells (QDSSC): a controlled synthesis route. <i>Dalton Transactions</i> , 2013, 42, 16961.	1.6	37
77	Facile Preparation and Enhanced Capacitance of the Ag-PEDOT:PSS/Polyaniline Nanofiber Network for Supercapacitors. <i>Electrochimica Acta</i> , 2016, 213, 680-690.	2.6	37
78	Electrochemical performance of LiFePO <sub>4</sub> /GO composite for Li-ion batteries. <i>Ceramics International</i> , 2018, 44, 6886-6893.	2.3	37
79	Magnetic nanoparticle decorated graphene based electrochemical nanobiosensor for H <sub>2</sub> O <sub>2</sub> sensing using HRP. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 167, 425-431.	2.5	37
80	Highly efficient mixed-halide mixed-cation perovskite solar cells based on rGO-TiO <sub>2</sub> composite nanofibers. <i>Energy</i> , 2019, 189, 116396.	4.5	37
81	Rapid synthesis of CdS nanowire mesh via a simplistic wet chemical route and its NO <sub>2</sub> gas sensing properties. <i>New Journal of Chemistry</i> , 2018, 42, 4232-4239.	1.4	36
82	Study of solvent variation on controlled synthesis of different nanostructured NiCo <sub>2</sub> O <sub>4</sub> thin films for supercapacitive application. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 589-601.	5.0	36
83	Gas sensing properties of 3D mesoporous nanostructured ZnO thin films. <i>New Journal of Chemistry</i> , 2018, 42, 13573-13580.	1.4	35
84	Electro-optical properties of copper phthalocyanines (CuPc) vacuum deposited thin films. <i>RSC Advances</i> , 2012, 2, 2100.	1.7	34
85	Simplistic eco-friendly preparation of nanostructured Cu <sub>2</sub> FeSn <sub>4</sub> powder for solar photocatalytic degradation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 229, 135-143.	1.7	34
86	An Organic Bipolar Resistive Switching Memory Device Based on Natural Melanin Synthesized From <i>Aeromonas</i> sp. SNS. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800550.	0.8	34
87	A facile and low cost strategy to synthesize Cd <sub>1-x</sub> Zn <sub>x</sub> Se thin films for photoelectrochemical performance: effect of zinc content. <i>RSC Advances</i> , 2015, 5, 55658-55668.	1.7	33
88	Effect of write voltage and frequency on the reliability aspects of memristor-based RRAM. <i>International Nano Letters</i> , 2017, 7, 209-216.	2.3	33
89	Chemical synthesis of CdS onto TiO <sub>2</sub> nanorods for quantum dot sensitized solar cells. <i>Optical Materials</i> , 2016, 58, 46-50.	1.7	32
90	Effect of hydroxide anion generating agents on growth and properties of ZnO nanorod arrays. <i>Electrochimica Acta</i> , 2014, 149, 386-393.	2.6	31

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91	Electrochromic Performance of Nickel Oxide Thin Film: Synthesis via Electrodeposition Technique. <i>Macromolecular Symposia</i> , 2016, 361, 47-50.	0.4	31
92	Evaluation of various diameters of titanium oxide nanofibers for efficient dye sensitized solar cells synthesized by electrospinning technique: A systematic study and their application. <i>Electrochimica Acta</i> , 2015, 166, 356-366.	2.6	30
93	Studies on effect of temperature on synthesis of hierarchical TiO <sub>2</sub> nanostructures by surfactant free single step hydrothermal route and its photoelectrochemical characterizations. <i>Journal of Colloid and Interface Science</i> , 2016, 470, 108-116.	5.0	30
94	A new method to prepare superhydrophobic cotton fabrics by post-coating surface modification of ZnO nanoparticles. <i>Materials Letters</i> , 2019, 255, 126562.	1.3	30
95	Improved electrochemical performance of activated carbon/polyaniline composite electrode. <i>Materials Letters</i> , 2014, 117, 248-251.	1.3	29
96	Mesoporous architecture of TiO <sub>2</sub> microspheres via controlled template assisted route and their photoelectrochemical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 304-316.	1.1	29
97	Single-step hydrothermally grown nanosheet-assembled tungsten oxide thin films for sensitive and selective NO <sub>2</sub> gas detection. <i>Journal of Materials Science</i> , 2018, 53, 6094-6105.	1.7	29
98	$\alpha$ -amylase immobilized on magnetic nanoparticles: reusable robust nano-biocatalyst for starch hydrolysis. <i>Materials Research Express</i> , 2018, 5, 075403.	0.8	29
99	Quantum Dot Based Solar Cells: Role of Nanoarchitectures, Perovskite Quantum Dots, and Charge Transporting Layers. <i>ChemSusChem</i> , 2019, 12, 4724-4753.	3.6	29
100	Photocatalytic decolorization of methyl violet dye using Rhamnolipid biosurfactant modified iron oxide nanoparticles for wastewater treatment. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 4590-4598.	1.1	29
101	Microwave assisted synthesis, characterization and thermoelectric properties of nanocrystalline copper antimony selenide thin films. <i>RSC Advances</i> , 2014, 4, 51632-51639.	1.7	28
102	Langmuir-Blodgett self organized nanocrystalline tungsten oxide thin films for electrochromic performance. <i>RSC Advances</i> , 2015, 5, 26923-26931.	1.7	28
103	Efficient dye-sensitized solar cells based on hierarchical rutile TiO <sub>2</sub> microspheres. <i>CrystEngComm</i> , 2012, 14, 8156.	1.3	27
104	Silver incorporated PEDOT: PSS for enhanced electrochemical performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 42, 113-120.	2.9	27
105	Quantum dot sensitized solar cell based on TiO <sub>2</sub> /CdS/Ag <sub>2</sub> S heterostructure. <i>Optical Materials</i> , 2017, 66, 644-650.	1.7	27
106	Terbium Doped and Dual Passivated CsPb(I <sub>1-x</sub> Br <sub>x</sub> ) <sub>3</sub> Inorganic Perovskite Solar Cells with Improved Air Thermal Stability and High Efficiency. <i>Advanced Materials</i> , 2022, 34, e2203204.	11.1	27
107	From beads-to-wires-to-fibers of tungsten oxide: electrochromic response. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 323-330.	1.1	26
108	One-step synthesis and characterization of anisotropic silver nanoparticles: application for enhanced antibacterial activity of natural fabric. <i>Journal of Materials Science</i> , 2013, 48, 8393-8401.	1.7	26

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109	Simplistic construction of cadmium sulfoselenide thin films via a hybrid chemical process for enhanced photoelectrochemical performance. RSC Advances, 2015, 5, 40283-40296.	1.7	26
110	Mimicking the Synaptic Weights and Human Forgetting Curve Using Hydrothermally Grown Nanostructured CuO Memristor Device. Journal of Nanoscience and Nanotechnology, 2018, 18, 984-991.	0.9	26
111	Photoelectrochemically active surfactant free single step hydrothermal mediated titanium dioxide nanorods. Journal of Materials Science: Materials in Electronics, 2014, 25, 4501-4511.	1.1	25
112	Facile linker free growth of CdS nanoshell on 1-D ZnO: Solar cell application. Electronic Materials Letters, 2015, 11, 171-179.	1.0	25
113	Monodispersed wurtzite Cu <sub>2</sub> SnS <sub>3</sub> nanocrystals by phosphine and oleylamine free facile heat-up technique. CrystEngComm, 2016, 18, 2885-2893.	1.3	25
114	Synthesis of a nanostructured rutile TiO <sub>2</sub> electron transporting layer via an etching process for efficient perovskite solar cells: impact of the structural and crystalline properties of TiO <sub>2</sub> . Journal of Materials Chemistry A, 2017, 5, 12340-12353.	5.2	25
115	Coexistence of filamentary and homogeneous resistive switching with memristive and meminductive memory effects in Al/MnO <sub>2</sub> /SS thin film metal-insulator-metal device. International Nano Letters, 2018, 8, 263-275.	2.3	25
116	Fabrication of nanogranular TiO <sub>2</sub> thin films by SILAR technique: Application for NO <sub>2</sub> gas sensor. Inorganic and Nano-Metal Chemistry, 2019, 49, 191-197.	0.9	25
117	Nanostructured materials for electrochromic energy storage systems. Journal of Materials Chemistry A, 2022, 10, 1179-1226.	5.2	25
118	A mild hydrothermal route to synthesis of CZTS nanoparticle inks for solar cell applications. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 500-503.	0.8	24
119	Kesterite CZTS nanocrystals: pH-dependent synthesis. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1531-1534.	0.8	23
120	The synergistic influence of anionic bath immersion time on the photoelectrochemical performance of CZTS thin films prepared by a modified SILAR sequence. RSC Advances, 2014, 4, 18537.	1.7	23
121	Photoelectrochemical solar cell based on surfactant mediated rutile TiO <sub>2</sub> nanorods. Journal of Materials Science: Materials in Electronics, 2015, 26, 2595-2604.	1.1	23
122	Sulfur ion concentration dependent morphological evolution of CdS thin films and its subsequent effect on photo-electrochemical performance. Physical Chemistry Chemical Physics, 2016, 18, 28024-28032.	1.3	23
123	Hydrothermally grown 3D hierarchical TiO <sub>2</sub> based on electrochemically anodized 1D TiO <sub>2</sub> nanostructure for supercapacitor. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	23
124	Two-Step Antisolvent Precipitated MAPbI <sub>3</sub> Pellet-Based Robust Room-Temperature Ammonia Sensor. Advanced Materials Technologies, 2019, 4, 1900251.	3.0	23
125	Highly reliable multilevel resistive switching in a nanoparticulated In <sub>2</sub> O <sub>3</sub> thin-film memristive device. Journal Physics D: Applied Physics, 2019, 52, 175306.	1.3	23
126	Enhanced Gas-Sensing Response of Zinc Oxide Nanorods Synthesized via Hydrothermal Route for Nitrogen Dioxide Gas. Journal of Electronic Materials, 2019, 48, 589-595.	1.0	23



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127	Structural, Optical, and Photoelectrochemical Properties of Sprayed TiO <sub>2</sub> Thin Films: Effect of Precursor Concentration. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1266-1272.	1.9	22
128	Effect of annealing on the supercapacitor performance of CuO-PAA/CNT films. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 25-33.	1.2	22
129	Novel-approach for fabrication of CdS thin films for photoelectrochemical solar cell application. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 5606-5617.	1.1	22
130	Effect of surfactants on the data directionality and learning behaviour of Al/TiO <sub>2</sub> /FTO thin film memristor-based electronic synapse. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2753-2757.	1.2	22
131	Tuning the analog and digital resistive switching properties of TiO <sub>2</sub> by nanocompositing Al-doped ZnO. <i>Materials Science in Semiconductor Processing</i> , 2020, 115, 105110.	1.9	22
132	Thermoelectric properties of nanocrystalline Cu <sub>3</sub> SbSe <sub>4</sub> thin films deposited by a self-organized arrested precipitation technique. <i>New Journal of Chemistry</i> , 2015, 39, 5661-5668.	1.4	21
133	Aqueous-Solution-Processed Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> Thin-Film Solar Cells via an Improved Successive Ion-Layer-Adsorption Reaction Sequence. <i>ACS Omega</i> , 2017, 2, 9211-9220.	1.6	21
134	Novel One Step Sonosynthesis and Deposition Technique to Prepare Silver Nanoparticles Coated Cotton Textile with Antibacterial Properties. <i>Colloid Journal</i> , 2019, 81, 720-727.	0.5	21
135	Sustainable approach to almond skin mediated synthesis of tunable selenium microstructures for coating cotton fabric to impart specific antibacterial activity. <i>Journal of Colloid and Interface Science</i> , 2020, 569, 346-357.	5.0	21
136	Effect of surfactant on optical and structural properties of chemically deposited MoBi <sub>2</sub> S <sub>5</sub> thin films. <i>New Journal of Chemistry</i> , 2012, 36, 1807.	1.4	20
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