## **Pramod Patil**

List of Publications by Year in descending order

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246 papers 8,987 citations

51
h-index

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. Materials Chemistry and Physics, 1999, 59, 185-198.	4.0	607
2	CZTS based thin film solar cells: a status review. Materials Technology, 2013, 28, 98-109.	3.0	276
3	Fabrication of nanostructured ZnO thin films based NO 2 gas sensor via SILAR technique. Sensors and Actuators B: Chemical, 2017, 239, 1185-1193.	7.8	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. Chemistry of Materials, 2015, 27, 1541-1551.	6.7	170
5	Controlled growth of ZnO nanorod arrays via wet chemical route for NO2 gas sensor applications. Sensors and Actuators B: Chemical, 2015, 221, 1195-1201.	7.8	154
6	Electrospinning: A versatile technique for making of 1D growth of nanostructured nanofibers and its applications: An experimental approach. Applied Surface Science, 2017, 423, 641-674.	6.1	152
7	In situ processed gold nanoparticle-embedded TiO <sub>2</sub> nanofibers enabling plasmonic perovskite solar cells to exceed 14% conversion efficiency. Nanoscale, 2016, 8, 2664-2677.	5.6	143
8	Recent advancements in silica nanoparticles based technologies for removal of dyes from water. Colloids and Interface Science Communications, 2019, 30, 100181.	4.1	130
9	Ce doped NiO nanoparticles as selective NO 2 gas sensor. Journal of Physics and Chemistry of Solids, 2018, 114, 28-35.	4.0	123
10	Efficient electrochromic performance of nanoparticulate WO3 thin films. Journal of Materials Chemistry C, 2013, 1, 3722.	5 <b>.</b> 5	120
11	Investigations on silver/polyaniline electrodes for electrochemical supercapacitors. Physical Chemistry Chemical Physics, 2012, 14, 11886.	2.8	119
12	Synthesis and characterization of Cu2ZnSnS4 thin films by SILAR method. Journal of Physics and Chemistry of Solids, 2012, 73, 735-740.	4.0	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. ACS Applied Materials & Samp; Interfaces, 2014, 6, 1688-1696.	8.0	112
14	Nanoarchitectures in dye-sensitized solar cells: metal oxides, oxide perovskites and carbon-based materials. Nanoscale, 2018, 10, 4987-5034.	5 <b>.</b> 6	108
15	Novel synthesis of kesterite Cu2ZnSnS4 nanoflakes by successive ionic layer adsorption and reaction technique: Characterization and application. Electrochimica Acta, 2012, 66, 216-221.	<b>5.2</b>	105
16	Surfactant free most probable TiO2 nanostructures via hydrothermal and its dye sensitized solar cell properties. Scientific Reports, 2013, 3, 3004.	3.3	97
17	Impact of collected sunlight on ZnFe2O4 nanoparticles for photocatalytic application. Journal of Colloid and Interface Science, 2018, 527, 289-297.	9.4	96
18	Towards environmentally benign approaches for the synthesis of CZTSSe nanocrystals by a hot injection method: a status review. Chemical Communications, 2014, 50, 11258.	4.1	94

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19	Insights into kesterite's back contact interface: A status review. Solar Energy Materials and Solar Cells, 2019, 200, 109911.	6.2	91
20	Surfactant-mediated growth of nanostructured zinc oxide thin films via electrodeposition and their photoelectrochemical performance. Nanotechnology, 2008, 19, 325706.	2.6	85
21	Characterization and NO2 gas sensing properties of spray pyrolyzed SnO2 thin films. Journal of Analytical and Applied Pyrolysis, 2017, 127, 38-46.	<b>5.</b> 5	84
22	Perovskite solar cells: In pursuit of efficiency and stability. Materials and Design, 2017, 136, 54-80.	7.0	83
23	PbS quantum dot sensitized anatase TiO2 nanocorals for quantum dot-sensitized solar cell applications. Dalton Transactions, 2012, 41, 6130.	3.3	82
24	Nanocoral architecture of TiO2 by hydrothermal process: Synthesis and characterization. Applied Surface Science, 2011, 257, 9737-9746.	6.1	79
25	Electrochemical supercapacitor electrode material based on polyacrylic acid/polypyrrole/silver composite. Electrochimica Acta, 2013, 105, 569-577.	5.2	79
26	Preparation, characterization of 1D ZnO nanorods and their gas sensing properties. Ceramics International, 2018, 44, 3333-3340.	4.8	77
27	Synthesis, Characterization of Hydrothermally Grown MWCNT–TiO <sub>2</sub> Photoelectrodes and Their Visible Light Absorption Properties. ECS Journal of Solid State Science and Technology, 2012, 1, M15-M23.	1.8	76
28	Recent advances in synthesis of Cu2FeSnS4 materials for solar cell applications: A review. Solar Energy Materials and Solar Cells, 2018, 182, 204-219.	6.2	75
29	An Mn Doped Polyaniline Electrode for Electrochemical Supercapacitor. Journal of the Electrochemical Society, 2011, 158, A653.	2.9	73
30	Enhanced electrochromic coloration in Ag nanoparticle decorated WO3 thin films. Electrochimica Acta, 2013, 102, 358-368.	5.2	73
31	Novel Synthesis and Characterization of Mesoporous ZnO Nanofibers by Electrospinning Technique. ACS Sustainable Chemistry and Engineering, 2013, 1, 1207-1213.	6.7	73
32	Hydrothermal synthesis of rutile TiO2 nanoflowers using BrÃ,nsted Acidic Ionic Liquid [BAIL]: Synthesis, characterization and growth mechanism. CrystEngComm, 2012, 14, 1920.	2.6	71
33	Photocatalytic degradation of methylene blue by hydrothermally synthesized CZTS nanoparticles. Journal of Materials Science: Materials in Electronics, 2017, 28, 8186-8191.	2.2	70
34	Hydrothermal synthesis of rutile TiO2 with hierarchical microspheres and their characterization. CrystEngComm, 2011, 13, 6349.	2.6	69
35	CdS-sensitized TiO2 nanocorals: hydrothermal synthesis, characterization, application. Photochemical and Photobiological Sciences, 2011, 10, 1652-1658.	2.9	69
36	High performing smart electrochromic device based on honeycomb nanostructured h-WO <sub>3</sub> thin films: hydrothermal assisted synthesis. Dalton Transactions, 2015, 44, 2788-2800.	3.3	69

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37	Immobilization of invertase on chitosan coated $\hat{I}^3$ -Fe 2 O 3 magnetic nanoparticles to facilitate magnetic separation. Journal of Colloid and Interface Science, 2016, 482, 159-164.	9.4	69
38	Electrochromic properties of dandelion flower like nickel oxide thin films. Journal of Materials Chemistry A, 2013, 1, 1035-1039.	10.3	67
39	Mechanochemical growth of a porous ZnFe <sub>2</sub> O <sub>4</sub> nano-flake thin film as an electrode for supercapacitor application. RSC Advances, 2015, 5, 45935-45942.	3.6	67
40	Symmetric supercapacitor: Sulphurized graphene and ionic liquid. Journal of Colloid and Interface Science, 2018, 527, 40-48.	9.4	65
41	Development of nanocoral-like Cd(SSe) thin films using an arrested precipitation technique and their application. New Journal of Chemistry, 2014, 38, 5964-5974.	2.8	62
42	Polyaniline–CuO hybrid nanocomposites: synthesis, structural, morphological, optical and electrical transport studies. Journal of Materials Science: Materials in Electronics, 2013, 24, 3526-3535.	2.2	61
43	Quantum dot sensitized solar cell based on TiO2/CdS/CdSe/ZnS heterostructure. Electrochimica Acta, 2016, 203, 74-83.	5.2	60
44	Chemically synthesized PbS Nano particulate thin films for a rapid NO <sub>2</sub> gas sensor. Materials Science-Poland, 2016, 34, 204-211.	1.0	59
45	Waste tea residue as a low cost adsorbent for removal of hydralazine hydrochloride pharmaceutical pollutant from aqueous media: An environmental remediation. Journal of Cleaner Production, 2019, 206, 407-418.	9.3	59
46	Surfactant free microwave assisted synthesis of ZnO microspheres: Study of their antibacterial activity. Applied Surface Science, 2014, 307, 495-502.	6.1	57
47	Monolayer grafting of aminosilane on magnetic nanoparticles: An efficient approach for targeted drug delivery system. Journal of Colloid and Interface Science, 2018, 529, 415-425.	9.4	57
48	Development of Ag/ZnO/FTO thin film memristor using aqueous chemical route. Materials Science in Semiconductor Processing, 2015, 40, 523-526.	4.0	56
49	Spray pyrolyzed indium oxide thick films as NO2 gas sensor. Ceramics International, 2016, 42, 16160-16168.	4.8	56
50	Design and electro-synthesis of 3-D nanofibers of MnO2 thin films and their application in high performance supercapacitor. Electrochimica Acta, 2015, 176, 523-532.	5.2	54
51	Ultrasensitive Gold Nanostar–Polyaniline Composite for Ammonia Gas Sensing. Langmuir, 2015, 31, 13247-13256.	3.5	53
52	APTES monolayer coverage on self-assembled magnetic nanospheres for controlled release of anticancer drug Nintedanib. Scientific Reports, 2021, 11, 5674.	3.3	53
53	Photoelectrochemical properties of CdS sensitized ZnO nanorod arrays: Effect of nanorod length. Journal of Applied Physics, 2012, 112, .	2.5	52
54	Effective light harvesting in CdS nanoparticle-sensitized rutile TiO2 microspheres. Electrochimica Acta, 2013, 90, 666-672.	5.2	52

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55	A selective ethanol gas sensor based on spray-derived Ag–ZnO thin films. Journal of Materials Science, 2013, 48, 7274-7282.	3.7	51
56	A Simple Aqueous Precursor Solution Processing of Earth-Abundant Cu <sub>2</sub> SnS <sub>3</sub> Absorbers for Thin-Film Solar Cells. ACS Applied Materials & Samp; Interfaces, 2016, 8, 11603-11614.	8.0	51
57	In2O3 nanocapsules for rapid photodegradation of crystal violet dye under sunlight. Journal of Colloid and Interface Science, 2020, 561, 287-297.	9.4	47
58	Electrochromic properties of large-area and high-density arrays of transparent one-dimensional $\hat{l}^2$ -Ta2O5 nanorods on indium-tin-oxide thin-films. Applied Physics Letters, 2011, 98, .	3.3	46
59	Room temperature deposition of nanostructured Bi2Se3 thin films for photoelectrochemical application: effect of chelating agents. New Journal of Chemistry, 2013, 37, 2821.	2.8	46
60	Farming of maize-like zinc oxide via a modified SILAR technique as a selective and sensitive nitrogen dioxide gas sensor. RSC Advances, 2016, 6, 90916-90922.	3.6	46
61	From nanocorals to nanorods to nanoflowers nanoarchitecture for efficient dye-sensitized solar cells at relatively low film thickness: All Hydrothermal Process. Scientific Reports, 2014, 4, 5451.	3.3	45
62	Photoelectrocatalytic degradation of methyl blue using sprayed WO3 thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 1629-1635.	2.2	45
63	Efficient maximization of coloration by modification in morphology of electrodeposited NiO thin films prepared with different surfactants. Journal of Solid State Electrochemistry, 2012, 16, 253-263.	2.5	43
64	Single-step synthesis of 3D nanostructured TiO2 as a scattering layer for vertically aligned 1D nanorod photoanodes and their dye-sensitized solar cell properties. CrystEngComm, 2013, 15, 5660.	2.6	42
65	Novel synthesis of interconnected nanocubic PbS thin films by facile aqueous chemical route. Journal of Materials Science: Materials in Electronics, 2014, 25, 3762-3770.	2.2	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. Synthetic Metals, 2016, 220, 661-666.	3.9	42
67	Synthesis and characterization of chemically grown electrochromic tungsten oxide. Journal of Sol-Gel Science and Technology, 2010, 56, 177-183.	2.4	41
68	Hybrid Physicochemical Synthesis and Electrochromic Performance of WO <sub>3</sub> /MoO <sub>3</sub> Thin Films. Electroanalysis, 2014, 26, 2388-2397.	2.9	41
69	Greener synthesis of magnetite nanoparticles using green tea extract and their magnetic properties. Materials Research Express, 2017, 4, 096102.	1.6	41
70	Single step hydrothermal synthesis of hierarchical TiO <sub>2</sub> microflowers with radially assembled nanorods for enhanced photovoltaic performance. RSC Advances, 2014, 4, 47278-47286.	3.6	40
71	Effect of Concentration on the Charge Storage Kinetics of Nanostructured MnO2 Thin-Film Supercapacitors Synthesized by the Hydrothermal Method. Energies, 2020, 13, 6124.	3.1	40
72	Improved solar cell performance of chemosynthesized cadmium selenide pebbles. Electrochimica Acta, 2013, 98, 244-254.	5.2	39

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73	Development of Ag/WO3/ITO thin film memristor using spray pyrolysis method. Electronic Materials Letters, 2015, 11, 944-948.	2.2	39
74	Photoelectrocatalysis of Cefotaxime Using Nanostructured TiO <sub>2</sub> Photoanode: Identification of the Degradation Products and Determination of the Toxicity Level. Industrial & Engineering Chemistry Research, 2014, 53, 18152-18162.	3.7	38
75	Ru-Loaded mesoporous WO <sub>3</sub> microflowers for dual applications: enhanced H <sub>2</sub> S sensing and sunlight-driven photocatalysis. Dalton Transactions, 2018, 47, 16840-16845.	3.3	38
76	Chemically grown vertically aligned 1D ZnO nanorods with CdS coating for efficient quantum dot sensitized solar cells (QDSSC): a controlled synthesis route. Dalton Transactions, 2013, 42, 16961.	3.3	37
77	Facile Preparation and Enhanced Capacitance of the Ag-PEDOT:PSS/Polyaniline Nanofiber Network for Supercapacitors. Electrochimica Acta, 2016, 213, 680-690.	5.2	37
78	Electrochemical performance of LiFePO4/GO composite for Li-ion batteries. Ceramics International, 2018, 44, 6886-6893.	4.8	37
79	Magnetic nanoparticle decorated graphene based electrochemical nanobiosensor for H2O2 sensing using HRP. Colloids and Surfaces B: Biointerfaces, 2018, 167, 425-431.	5.0	37
80	Highly efficient mixed-halide mixed-cation perovskite solar cells based on rGO-TiO2 composite nanofibers. Energy, 2019, 189, 116396.	8.8	37
81	Rapid synthesis of CdS nanowire mesh <i>via</i> a simplistic wet chemical route and its NO <sub>2</sub> gas sensing properties. New Journal of Chemistry, 2018, 42, 4232-4239.	2.8	36
82	Study of solvent variation on controlled synthesis of different nanostructured NiCo2O4 thin films for supercapacitive application. Journal of Colloid and Interface Science, 2021, 588, 589-601.	9.4	36
83	Gas sensing properties of 3D mesoporous nanostructured ZnO thin films. New Journal of Chemistry, 2018, 42, 13573-13580.	2.8	35
84	Electro-optical properties of copper phthalocyanines (CuPc) vacuum deposited thin films. RSC Advances, 2012, 2, 2100.	3.6	34
85	Simplistic eco-friendly preparation of nanostructured Cu 2 FeSnS 4 powder for solar photocatalytic degradation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 229, 135-143.	3.5	34
86	An Organic Bipolar Resistive Switching Memory Device Based on Natural Melanin Synthesized From <i>Aeromonas</i> sp. SNS. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800550.	1.8	34
87	A facile and low cost strategy to synthesize $Cd \cdot sub \cdot 1\hat{a}^2 \times /sub \cdot Zn \cdot sub \cdot x \cdot /sub \cdot Se$ thin films for photoelectrochemical performance: effect of zinc content. RSC Advances, 2015, 5, 55658-55668.	3.6	33
88	Effect of write voltage and frequency on the reliability aspects of memristor-based RRAM. International Nano Letters, 2017, 7, 209-216.	5.0	33
89	Chemical synthesis of CdS onto TiO2 nanorods for quantum dot sensitized solar cells. Optical Materials, 2016, 58, 46-50.	3.6	32
90	Effect of hydroxide anion generating agents on growth and properties of ZnO nanorod arrays. Electrochimica Acta, 2014, 149, 386-393.	5.2	31

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91	Electrochromic Performance of Nickel Oxide Thin Film: Synthesis via Electrodeposition Technique. Macromolecular Symposia, 2016, 361, 47-50.	0.7	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. Electrochimica Acta, 2015, 166, 356-366.	5.2	30
93	Studies on effect of temperature on synthesis of hierarchical TiO 2 nanostructures by surfactant free single step hydrothermal route and its photoelectrochemical characterizations. Journal of Colloid and Interface Science, 2016, 470, 108-116.	9.4	30
94	A new method to prepare superhydrophobic cotton fabrics by post-coating surface modification of ZnO nanoparticles. Materials Letters, 2019, 255, 126562.	2.6	30
95	Improved electrochemical performance of activated carbon/polyaniline composite electrode. Materials Letters, 2014, 117, 248-251.	2.6	29
96	Mesoporous architecture of TiO2 microspheres via controlled template assisted route and their photoelectrochemical properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 304-316.	2.2	29
97	Single-step hydrothermally grown nanosheet-assembled tungsten oxide thin films for sensitive and selective NO2 gas detection. Journal of Materials Science, 2018, 53, 6094-6105.	3.7	29
98	$\langle i \rangle \hat{1} \pm \langle j \rangle$ -amylase immobilized on magnetic nanoparticles: reusable robust nano-biocatalyst for starch hydrolysis. Materials Research Express, 2018, 5, 075403.	1.6	29
99	Quantum Dot Based Solar Cells: Role of Nanoarchitectures, Perovskite Quantum Dots, and Chargeâ€Transporting Layers. ChemSusChem, 2019, 12, 4724-4753.	6.8	29
100	Photocatalytic decolorization of methyl violet dye using Rhamnolipid biosurfactant modified iron oxide nanoparticles for wastewater treatment. Journal of Materials Science: Materials in Electronics, 2019, 30, 4590-4598.	2.2	29
101	Microwave assisted synthesis, characterization and thermoelectric properties of nanocrystalline copper antimony selenide thin films. RSC Advances, 2014, 4, 51632-51639.	3.6	28
102	Langmuir–Blodgett self organized nanocrystalline tungsten oxide thin films for electrochromic performance. RSC Advances, 2015, 5, 26923-26931.	3.6	28
103	Efficient dye-sensitized solar cells based on hierarchical rutile TiO2 microspheres. CrystEngComm, 2012, 14, 8156.	2.6	27
104	Silver incorporated PEDOT: PSS for enhanced electrochemical performance. Journal of Industrial and Engineering Chemistry, 2016, 42, 113-120.	5.8	27
105	Quantum dot sensitized solar cell based on TiO 2 /CdS/Ag 2 S heterostructure. Optical Materials, 2017, 66, 644-650.	3.6	27
106	Terbiumâ€Doped and Dualâ€Passivated γâ€CsPb(I <sub>1â^'</sub> <i><sub>x</sub></i> Solar Cells with Improved Air Thermal Stability and High Efficiency. Advanced Materials, 2022, 34, e2203204.	21.0	27
107	From beads-to-wires-to-fibers of tungsten oxide: electrochromic response. Applied Physics A: Materials Science and Processing, 2009, 97, 323-330.	2.3	26
108	One-step synthesis and characterization of anisotropic silver nanoparticles: application for enhanced antibacterial activity of natural fabric. Journal of Materials Science, 2013, 48, 8393-8401.	3.7	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.	3.6	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.	2.2	25
112	Facile linker free growth of CdS nanoshell on 1-D ZnO: Solar cell application. Electronic Materials Letters, 2015, 11, 171-179.	2.2	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.	2.6	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.	10.3	25
115	Coexistence of filamentary and homogeneous resistive switching with memristive and meminductive memory effects in Al/MnO2/SS thin film metal–insulator–metal device. International Nano Letters, 2018, 8, 263-275.	5.0	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.	1.6	25
117	Nanostructured materials for electrochromic energy storage systems. Journal of Materials Chemistry A, 2022, 10, 1179-1226.	10.3	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: pHâ€dependent synthesis. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1531-1534.	1.8	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.	3.6	23
121	Photoelectrochemical solar cell based on surfactant mediated rutile TiO2 nanorods. Journal of Materials Science: Materials in Electronics, 2015, 26, 2595-2604.	2.2	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.	2.8	23
123	Hydrothermally grown 3D hierarchical TiO2 based on electrochemically anodized 1D TiO2 nanostructure for supercapacitor. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	23
124	Twoâ€Step Antisolvent Precipitated MAPbI 3 â€Pelletâ€Based Robust Roomâ€Temperature Ammonia Sensor. Advanced Materials Technologies, 2019, 4, 1900251.	5.8	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.	2.8	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.	2.2	23

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127	Structural, Optical, and Photoelectrochemical Properties of Sprayed TiO <sub>2</sub> Thin Films: Effect of Precursor Concentration. Journal of the American Ceramic Society, 2008, 91, 1266-1272.	3.8	22
128	Effect of annealing on the supercapacitor performance of CuO-PAA/CNT films. Journal of Solid State Electrochemistry, 2012, 16, 25-33.	2.5	22
129	Novel-approach for fabrication of CdS thin films for photoelectrochemical solar cell application. Journal of Materials Science: Materials in Electronics, 2014, 25, 5606-5617.	2.2	22
130	Effect of surfactants on the data directionality and learning behaviour of Al/TiO2/FTO thin film memristor-based electronic synapse. Journal of Solid State Electrochemistry, 2017, 21, 2753-2757.	2.5	22
131	Tuning the analog and digital resistive switching properties of TiO2 by nanocompositing Al-doped ZnO. Materials Science in Semiconductor Processing, 2020, 115, 105110.	4.0	22
132	Thermoelectric properties of nanocrystalline Cu3SbSe4 thin films deposited by a self-organized arrested precipitation technique. New Journal of Chemistry, 2015, 39, 5661-5668.	2.8	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. ACS Omega, 2017, 2, 9211-9220.	3.5	21
134	Novel One Step Sonosynthesis and Deposition Technique to Prepare Silver Nanoparticles Coated Cotton Textile with Antibacterial Properties. Colloid Journal, 2019, 81, 720-727.	1.3	21
135	Sustainable approach to almond skin mediated synthesis of tunable selenium microstructures for coating cotton fabric to impart specific antibacterial activity. Journal of Colloid and Interface Science, 2020, 569, 346-357.	9.4	21
136	Effect of surfactant on optical and structural properties of chemically deposited MoBi2S5 thin films. New Journal of Chemistry, 2012, 36, 1807.	2.8	20
137	Influence of laser repetition rate on the Cu2ZnSn(SSe)4 thin films synthesized via pulsed laser deposition technique. Solar Energy Materials and Solar Cells, 2016, 157, 331-336.	6.2	20
138	Dye sensitized solar cells based on hydrothermally grown TiO2 nanostars over nanorods. Ceramics International, 2016, 42, 8038-8043.	4.8	20
139	Synthesis of hydrophilic nickel zinc ferrite thin films by chemical route for supercapacitor application. Journal of Porous Materials, 2012, 19, 649-655.	2.6	19
140	Synthesis, characterization and photoelectrochemical properties of PbS sensitized vertically aligned ZnO nanorods: modified aqueous route. Journal of Materials Science: Materials in Electronics, 2015, 26, 6897-6906.	2,2	19
141	Spray deposited CeO2–TiO2 counter electrode for electrochromic devices. Bulletin of Materials Science, 2015, 38, 483-491.	1.7	19
142	Enhanced photoelectrochemical performance of novel p-type MoBiCuSe <sub>4</sub> thin films deposited by a simple surfactant-mediated solution route. RSC Advances, 2016, 6, 24985-24994.	3.6	19
143	Enhancement of Electrical Conductivity of LiFePO4 by Controlled Solution Combustion Synthesis. Journal of Electronic Materials, 2017, 46, 1683-1691.	2.2	18
144	Bio-mimetic synthesis of catalytically active nano-silver using Bos taurus (A-2) urine. Scientific Reports, 2021, 11, 16934.	3.3	18

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145	Morphologically controlled electrodeposition of fern shaped Bi2Te3 thin films for photoelectrochemical performance. Journal of Electroanalytical Chemistry, 2015, 758, 178-190.	3.8	17
146	Synthesis of flower shaped ZnO thin films for resistive sensing of NO2 gas. Mikrochimica Acta, 2017, 184, 2455-2463.	5.0	17
147	The green hydrothermal synthesis of nanostructured Cu2ZnSnSe4 as solar cell material and study of their structural, optical and morphological properties. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	17
148	Structural and electrochemical analysis of chemically synthesized microcubic architectured lead selenide thin films. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	17
149	Recent advances in metal pyrophosphates for electrochemical supercapacitors: A review. Journal of Energy Storage, 2022, 52, 104986.	8.1	17
150	Study of Novel WO <sub>3</sub> -PEDOT:PSS Bilayered Thin Film for Electrochromic Applications. Nanoscience and Nanotechnology Letters, 2012, 4, 1146-1154.	0.4	16
151	Polyvinylpyrrolidone (PVP) assisted singleâ€step synthesis of kesterite Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoparticles by solvothermal process. Physica Status Solidi - Rapid Research Letters, 2013, 7, 1050-1054.	2.4	16
152	Thiocyanate functionalized ionic liquid electrolyte for photoelectrochemical study of cadmium selenide pebbles. Electrochimica Acta, 2014, 148, 310-316.	5.2	16
153	Novel route for the synthesis of surfactant-assisted MoBi <sub>2</sub> (Se <sub>0.5</sub> Te <sub>0.5</sub> ) <sub>5</sub> thin films for solar cell applications. New Journal of Chemistry, 2015, 39, 3405-3416.	2.8	16
154	Synthesis and Characterization of Potentiostatically Electrodeposited Tungsten Oxide Thin Films for Smart Window Application. Journal of Electronic Materials, 2017, 46, 974-981.	2.2	16
155	Facile green synthesis of In2O3 bricks and its NO2 gas sensing properties. Journal of Materials Science: Materials in Electronics, 2018, 29, 14508-14518.	2.2	16
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