Rajaram S Mane

List of Publications by Year
in descending order

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324 papers	11,517 citations	31976 53 h-index	54911 84 g-index

333 all docs	333 docs citations	333 times ranked	11553 citing authors

#	Article	IF	Citations
1	Chemical deposition method for metal chalcogenide thin films. Materials Chemistry and Physics, 2000, 65, 1-31.	4.0	717
2	Nanocrystalline TiO2/ZnO Thin Films:Â Fabrication and Application to Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2005, 109, 24254-24259.	2.6	252
3	Mn doped and undoped ZnO films: A comparative structural, optical and electrical properties study. Materials Chemistry and Physics, 2006, 96, 326-330.	4.0	243
4	Hydrophobic and textured ZnO films deposited by chemical bath deposition: annealing effect. Applied Surface Science, 2005, 245, 407-413.	6.1	235
5	High volumetric energy density annealed-MXene-nickel oxide/MXene asymmetric supercapacitor. RSC Advances, 2017, 7, 11000-11011.	3.6	166
6	Bismuth Oxychloride/MXene symmetric supercapacitor with high volumetric energy density. Electrochimica Acta, 2018, 271, 351-360.	5.2	144
7	An effective use of nanocrystalline CdO thin films in dye-sensitized solar cells. Solar Energy, 2006, 80, 185-190.	6.1	137
8	Simple and low-temperature polyaniline-based flexible ammonia sensor: a step towards laboratory synthesis to economical device design. Journal of Materials Chemistry C, 2015, 3, 9461-9468.	5.5	130
9	Facile synthesis of manganese carbonate quantum dots/Ni(HCO₃)₂â€“MnCO₃ composites as advanced cathode materials for high energy density asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 22102-22117.	10.3	127
10	Facile Synthesis of Microsphere Copper Cobalt Carbonate Hydroxides Electrode for Asymmetric Supercapacitor. Electrochimica Acta, 2016, 188, 898-908.	5.2	126
11	Achievement of 4.51% conversion efficiency using ZnO recombination barrier layer in TiO2 based dye-sensitized solar cells. Applied Physics Letters, 2006, 89, 253512.	3.3	122
12	A binder-free wet chemical synthesis approach to decorate nanoflowers of bismuth oxide on Ni-foam for fabricating laboratory scale potential pencil-type asymmetric supercapacitor device. Dalton Transactions, 2017, 46, 6601-6611.	3.3	118
13	Bismuth oxide thin films prepared by chemical bath deposition (CBD) method: annealing effect. Applied Surface Science, 2005, 250, 161-167.	6.1	117
14	Electrochemical supercapacitor application of pervoskite thin films. Electrochemistry Communications, 2007, 9, 1805-1809.	4.7	112
15	Enhanced acetone sensing properties of titanium dioxide nanoparticles with a sub-ppm detection limit. Sensors and Actuators B: Chemical, 2018, 255, 1701-1710.	7.8	110
16	Influence of Bi³⁺-doping on the magnetic and MÃ¶ssbauer properties of spinel cobalt ferrite. Dalton Transactions, 2015, 44, 6384-6390.	3.3	108
17	Preparation of transparent and conducting boron-doped ZnO electrode for its application in dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2009, 93, 524-527.	6.2	100
18	Deposition of CdS thin films by the successive ionic layer adsorption and reaction (SILAR) method. Materials Research Bulletin, 2000, 35, 177-184.	5.2	97

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19	Polycrystalline and Mesoporous 3-D Bi₂O₃ Nanostructured Negatrodes for High-Energy and Power-Asymmetric Supercapacitors: Superfast Room-Temperature Direct Wet Chemical Growth. ACS Applied Materials & Interfaces, 2018, 10, 11037-11047.	8.0	95
20	CBD grown ZnO-based gas sensors and dye-sensitized solar cells. Journal of Alloys and Compounds, 2009, 475, 304-311.	5.5	93
21	D-sorbitol-induced phase control of TiO2 nanoparticles and its application for dye-sensitized solar cells. Scientific Reports, 2016, 6, 20103.	3.3	93
22	The structural and magnetic properties of dual phase cobalt ferrite. Scientific Reports, 2017, 7, 2524.	3.3	93
23	Mixed-phase bismuth ferrite nanoflake electrodes for supercapacitor application. Applied Nanoscience (Switzerland), 2016, 6, 511-519.	3.1	92
24	Ultra-sensitive polyanilineâ€“iron oxide nanocomposite room temperature flexible ammonia sensor. RSC Advances, 2015, 5, 68964-68971.	3.6	91
25	A bismuth oxide nanoplate-based carbon dioxide gas sensor. Scripta Materialia, 2011, 65, 1081-1084.	5.2	87
26	Efficient ZnO Nanowire Solid-State Dye-Sensitized Solar Cells Using Organic Dyes and Coreâ^'shell Nanostructures. Journal of Physical Chemistry C, 2009, 113, 18515-18522.	3.1	85
27	Successive ionic layer adsorption and reaction (SILAR) method for the deposition of large area (â^¼10) Tj ETQq1 1 0.784314 rgBT /Ov	5.2	84
28	Bio-green synthesis of Ni-doped tin oxide nanoparticles and its influence on gas sensing properties. RSC Advances, 2015, 5, 72849-72856.	3.6	84
29	Electrochemical supercapacitor development based on electrodeposited nickel oxide film. RSC Advances, 2015, 5, 51961-51965.	3.6	82
30	Thickness-dependent properties of chemically deposited Sb2S3 thin films. Materials Chemistry and Physics, 2003, 82, 347-354.	4.0	81
31	Highly efficient and stable DSSCs of wet-chemically synthesized MoS₂ counter electrode. Dalton Transactions, 2014, 43, 5256-5259.	3.3	77
32	Use of chemically synthesized ZnO thin film as a liquefied petroleum gas sensor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 137, 119-125.	3.5	76
33	Studies on structural, optical and electrical properties of indium sulfide thin films. Materials Chemistry and Physics, 2003, 78, 15-17.	4.0	75
34	Photoelectrochemical cells based on chemically deposited nanocrystalline Bi2S3 thin films. Materials Chemistry and Physics, 1999, 60, 196-203.	4.0	74
35	Solution-processed rapid synthesis strategy of Co3O4 for the sensitive and selective detection of H2S. Sensors and Actuators B: Chemical, 2017, 245, 524-532.	7.8	71
36	Solid-state synthesis strategy of ZnO nanoparticles for the rapid detection of hazardous Cl2. Sensors and Actuators B: Chemical, 2017, 238, 1102-1110.	7.8	71

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37	A non-thermal chemical synthesis of hydrophilic and amorphous cobalt oxide films for supercapacitor application. Applied Surface Science, 2007, 253, 3952-3956.	6.1	70
38	Revisiting Metal Sulfide Semiconductors: A Solutionâ€Based General Protocol for Thin Film Formation, Hall Effect Measurement, and Application Prospects. Advanced Functional Materials, 2015, 25, 5739-5747.	14.9	70
39	Studies on chemically deposited cadmium sulphoselenide (CdSSe) films. Thin Solid Films, 1997, 304, 56-60.	1.8	69
40	Optimization of growth of In2O3 nano-spheres thin films by electrodeposition for dye-sensitized solar cells. Journal of Alloys and Compounds, 2009, 479, 840-843.	5.5	65
41	A coordination chemistry approach for shape controlled synthesis of indium oxide nanostructures and their photoelectrochemical properties. Journal of Materials Chemistry A, 2014, 2, 5490-5498.	10.3	65
42	Selenium nanostructures: microbial synthesis and applications. RSC Advances, 2015, 5, 92799-92811.	3.6	65
43	Magneto-structural behaviour of Gd doped nanocrystalline Co-Zn ferrites governed by domain wall movement and spin rotations. Ceramics International, 2018, 44, 21675-21683.	4.8	64
44	Ultra-rapid chemical synthesis of mesoporous Bi2O3 micro-sponge-balls for supercapattery applications. Electrochimica Acta, 2019, 296, 308-316.	5.2	64
45	Preparation and characterization of Bi2Se3 thin films deposited by successive ionic layer adsorption and reaction (SILAR) method. Materials Chemistry and Physics, 2000, 63, 230-234.	4.0	61
46	Improved performance of dense TiO2/CdSe coupled thin films by low temperature process. Electrochimica Acta, 2005, 50, 2453-2459.	5.2	61
47	Hydrogel-Assisted Polyaniline Microfiber as Controllable Electrochemical Actuatable Supercapacitor. Journal of the Electrochemical Society, 2009, 156, A313.	2.9	61
48	XRD, SEM, AFM, HRTEM, EDAX and RBS studies of chemically deposited Sb2S3 and Sb2Se3 thin films. Applied Surface Science, 2002, 193, 1-10.	6.1	60
49	Sulphur Source-Inspired Self-Grown 3D Ni_xS_y Nanostructures and Their Electrochemical Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 4551-4559.	8.0	60
50	An ion exchange mediated shape-preserving strategy for constructing 1-D arrays of porous CoS_{1.0365} nanorods for electrocatalytic reduction of triiodide. Journal of Materials Chemistry A, 2015, 3, 7900-7909.	10.3	57
51	Facile Chemical Synthesis and Potential Supercapattery Energy Storage Application of Hydrangea-type Bi₂MoO₆. ACS Omega, 2019, 4, 11093-11102.	3.5	57
52	A chemical method for the deposition of Bi2S3 thin films from a non-aqueous bath. Thin Solid Films, 2000, 359, 136-140.	1.8	56
53	Preparation and characterization of indium selenide thin films from a chemical route. Materials Chemistry and Physics, 2005, 93, 16-20.	4.0	56
54	Liquid-phase synthesized mesoporous electrochemical supercapacitors of nickel hydroxide. Electrochimica Acta, 2008, 53, 5016-5021.	5.2	56

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55	Dye-sensitized solar cell and electrochemical supercapacitor applications of electrochemically deposited hydrophilic and nanocrystalline tin oxide film electrodes. Current Applied Physics, 2009, 9, 87-91.	2.4	56
56	Ethanol gas sensing properties of hydrothermally grown Î±-MnO2 nanorods. Journal of Alloys and Compounds, 2017, 727, 362-369.	5.5	54
57	Development of morphological dependent chemically deposited nanocrystalline ZnO films for liquefied petroleum gas (LPG) sensor. Sensors and Actuators B: Chemical, 2007, 123, 882-887.	7.8	53
58	Concentration-dependent electrochemical supercapacitive performance of Fe2O3. Current Applied Physics, 2013, 13, 985-989.	2.4	53
59	Electrochemical supercapacitor application of electroless surface polymerization of polyaniline nanostructures. Materials Chemistry and Physics, 2009, 113, 14-17.	4.0	52
60	Thickness dependent properties of chemically deposited As2S3 thin films from thioacetamide bath. Materials Chemistry and Physics, 2000, 64, 215-221.	4.0	50
61	Photoelectrochemical (PEC) characterization of chemically deposited Bi2S3 thin films from non-aqueous medium. Materials Chemistry and Physics, 1999, 60, 158-162.	4.0	49
62	Nanostructured tin oxide films: Physical synthesis, characterization, and gas sensing properties. Journal of Colloid and Interface Science, 2017, 493, 162-170.	9.4	49
63	Structural characterization of chemically deposited Bi2S3 and Bi2Se3 thin films. Applied Surface Science, 2002, 187, 108-115.	6.1	48
64	ZnO Nanoparticlesâ”CdS Quantum Dots/N3 Dye Molecules: Dual Photosensitization. Journal of Physical Chemistry C, 2009, 113, 7666-7669.	3.1	48
65	A new chemical method for the preparation of Ag2S thin films. Materials Chemistry and Physics, 2000, 63, 226-229.	4.0	47
66	Sprayed bismuth oxide interconnected nanoplate supercapacitor electrode materials. Applied Surface Science, 2018, 453, 214-219.	6.1	47
67	Direct successive ionic layer adsorption and reaction (SILAR) synthesis of nickel and cobalt hydroxide composites for supercapacitor applications. Journal of Alloys and Compounds, 2017, 722, 809-817.	5.5	45
68	Flexible camphor sulfonic acid-doped PAni/Î±-Fe2O3 nanocomposite films and their room temperature ammonia sensing activity. Materials Chemistry and Physics, 2017, 189, 191-197.	4.0	45
69	Seawater electrolyte-mediated high volumetric MXene-based electrochemical symmetric supercapacitors. Dalton Transactions, 2018, 47, 8676-8682.	3.3	45
70	The role of La3+ substitution in modification of the magnetic and dielectric properties of the nanocrystalline Co-Zn ferrites. Journal of Magnetism and Magnetic Materials, 2020, 502, 166490.	2.3	45
71	Use of successive ionic layer adsorption and reaction (SILAR) method for amorphous titanium dioxide thin films growth. Applied Surface Science, 2006, 253, 421-424.	6.1	44
72	Preparation and characterization of ZnTe thin films by SILAR method. Applied Surface Science, 2007, 253, 4335-4337.	6.1	44

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73	Fabrication of tin substituted nickel ferrite (Sn-NiFe2O4) thin film and its application as opto-electronic humidity sensor. Sensors and Actuators A: Physical, 2018, 272, 267-273.	4.1	44
74	Non-aqueous chemical bath deposition of Sb2S3 thin films. Thin Solid Films, 1999, 353, 29-32.	1.8	43
75	Studies on chemically deposited nanocrystalline Bi2S3 thin films. Materials Research Bulletin, 2000, 35, 587-601.	5.2	43
76	Studies on p-type copper (I) selenide crystalline thin films for hetero-junction solar cells. Vacuum, 2006, 80, 631-635.	3.5	43
77	Gold nanoparticle-catalysed [3 + 2]dipolar cycloaddition of 1,6-allenynebenzaldehydes: construction of polycyclic ring systems. Green Chemistry, 2006, 8, 25-28.	9.0	42
78	Efficient gas sensitivity in mixed bismuth ferrite micro (cubes) and nano (plates) structures. Materials Research Bulletin, 2012, 47, 4169-4173.	5.2	42
79	Bismuth oxide nanoplates-based efficient DSSCs: Influence of ZnO surface passivation layer. Electrochimica Acta, 2013, 111, 593-600.	5.2	42
80	Synthesis of Bi2O3-MnO2 Nanocomposite Electrode for Wide-Potential Window High Performance Supercapacitor. Energies, 2019, 12, 3320.	3.1	42
81	Room temperature synthesis of compact TiO2 thin films for 3-D solar cells by chemical arrested route. Applied Surface Science, 2005, 246, 271-278.	6.1	41
82	Solution-processed nickel oxide films and their liquefied petroleum gas sensing activity. Journal of Alloys and Compounds, 2017, 695, 2008-2015.	5.5	41
83	Morphology-Dependent Electrochemical Supercapacitor Properties of Indium Oxide. Electrochemical and Solid-State Letters, 2008, 11, A9.	2.2	40
84	Influences in high quality zinc oxide films and their photoelectrochemical performance. Journal of Alloys and Compounds, 2010, 503, 416-421.	5.5	39
85	Chemical synthesis of p-type nanocrystalline copper selenide thin films for heterojunction solar cells. Applied Surface Science, 2006, 253, 2123-2126.	6.1	38
86	Nanocrystalline CdS-water-soluble conjugated-polymers: High performance photoelectrochemical cells. Applied Physics Letters, 2007, 90, 263503.	3.3	38
87	Protective Antigen Detection Using Horizontally Stacked Hexagonal ZnO Platelets. Analytical Chemistry, 2009, 81, 4280-4284.	6.5	38
88	Anodically fabricated self-organized nanoporous tin oxide film as a supercapacitor electrode material. RSC Advances, 2013, 3, 9431.	3.6	38
89	Synthesis and electrochemical supercapacitive performance of nickelâ€“manganese ferrite composite films. Journal of Analytical and Applied Pyrolysis, 2015, 116, 177-182.	5.5	38
90	Tailoring the morphology followed by the electrochemical performance of NiMn-LDH nanosheet arrays through controlled Co-doping for high-energy and power asymmetric supercapacitors. Dalton Transactions, 2017, 46, 12876-12883.	3.3	38

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91	Electrochemical capacitive properties of cadmium oxide films. Electrochimica Acta, 2007, 53, 695-699.	5.2	37
92	Cobalt Ferrite Nanocrystallites for Sustainable Hydrogen Production Application. International Journal of Electrochemistry, 2011, 2011, 1-6.	2.4	37
93	Enhanced synergism of antibiotics with zinc oxide nanoparticles against extended spectrum Î²-lactamase producers implicated in urinary tract infections. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	37
94	Low temperature chemically synthesized rutile TiO2 photoanodes with high electron lifetime for organic dye-sensitized solar cells. Chemical Communications, 2013, 49, 2921.	4.1	37
95	A simple, room temperature, solid-state synthesis route for metal oxide nanostructures. Journal of Materials Chemistry A, 2014, 2, 13519-13526.	10.3	37
96	Interfacial Engineering Importance of Bilayered ZnO Cathode Buffer on the Photovoltaic Performance of Inverted Organic Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 7951-7960.	8.0	37
97	Room-temperature successive ion transfer chemical synthesis and the efficient acetone gas sensor and electrochemical energy storage applications of Bi₂O₃ nanostructures. New Journal of Chemistry, 2018, 42, 12530-12538.	2.8	37
98	Role of composition and grain size in controlling the structure sensitive magnetic properties of Sm3+ substituted nanocrystalline Co-Zn ferrites. Journal of Rare Earths, 2020, 38, 1069-1075.	4.8	37
99	Performance enhancement of mesoporous TiO2-based perovskite solar cells by ZnS ultrathin-interfacial modification layer. Journal of Alloys and Compounds, 2018, 738, 405-414.	5.5	36
100	Low-Temperature Ionic Layer Adsorption and Reaction Grown Anatase TiO2 Nanocrystalline Films for Efficient Perovskite Solar Cell and Gas Sensor Applications. Scientific Reports, 2018, 8, 11016.	3.3	36
101	Photoelectrochemical cells based on nanocrystalline Sb2S3 thin films. Materials Chemistry and Physics, 2003, 78, 385-392.	4.0	35
102	Fluorine-doped zinc oxide transparent and conducting electrode by chemical spray synthesis. Applied Surface Science, 2008, 254, 6294-6297.	6.1	35
103	Structural, morphological and electrochemical supercapacitive properties of sprayed manganese ferrite thin film electrode. Journal of Analytical and Applied Pyrolysis, 2016, 122, 224-229.	5.5	35
104	Polyaniline-cobalt hydroxide hybrid nanostructures and their supercapacitor studies. Materials Chemistry and Physics, 2016, 180, 226-236.	4.0	35
105	Title is missing!. Journal of Materials Science Letters, 1999, 18, 1453-1455.	0.5	34
106	Contact angle measurement: A preliminary diagnostic method for evaluating the performance of ZnO platelet-based dye-sensitized solar cells. Scripta Materialia, 2009, 61, 12-15.	5.2	34
107	Photovoltaic properties of nanocrystalline SnSeâ€“CdS. Materials Letters, 2014, 115, 244-247.	2.6	34
108	Nanomorphology-dependent pseudocapacitive properties of NiO electrodes engineered through a controlled potentiodynamic electrodeposition process. RSC Advances, 2016, 6, 24478-24483.	3.6	34

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109	Hydrothermally grown Î±-MnO2 interlocked mesoporous micro-cubes of several nanocrystals as selective and sensitive nitrogen dioxide chemoresistive gas sensors. Applied Surface Science, 2018, 442, 178-184.	6.1	34
110	Microwave-assisted synthesis and magneto-electrical properties of Mg-Zn ferrimagnetic oxide nanostructures. Physica B: Condensed Matter, 2018, 530, 177-182.	2.7	34
111	Porous metal-graphene oxide nanocomposite sensors with high ammonia detectability. Journal of Colloid and Interface Science, 2021, 589, 401-410.	9.4	34
112	Structural, dielectric and enhanced soft magnetic properties of lithium (Li) substituted nickel ferrite (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si6.gif") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 637 Td (overfl	2.3	34
113	Magnet Growth of limited quantum dot chains of cadmium hydroxide thin films by chemical route. Electrochemistry Communications, 2005, 7, 205-208.	4.7	33
114	Boron-doped cadmium oxide composite structures and their electrochemical measurements. Materials Research Bulletin, 2013, 48, 2978-2983.	5.2	33
115	Sprayed zinc oxide films: Ultra-violet light-induced reversible surface wettability and platinum-sensitization-assisted improved liquefied petroleum gas response. Journal of Colloid and Interface Science, 2016, 480, 109-117.	9.4	33
116	Electrochemically grown MnO₂nanowires for supercapacitor and electrocatalysis applications. New Journal of Chemistry, 2020, 44, 17864-17870.	2.8	33
117	Aggregation-Free ZnO Nanocrystals Coupled HMP-2 Dye of Higher Extinction Coefficient for Enhancing Energy Conversion Efficiency. Journal of Physical Chemistry C, 2009, 113, 9206-9209.	3.1	32
118	Preparation of camphor-sulfonic acid doped PPyâ€“NiO hybrid nanocomposite for detection of toxic nitrogen dioxide. Synthetic Metals, 2015, 209, 426-433.	3.9	32
119	Sputtering and sulfurization-combined synthesis of a transparent WS₂ counter electrode and its application to dye-sensitized solar cells. RSC Advances, 2015, 5, 103567-103572.	3.6	32
120	Electrochemical supercapacitors of anodized-brass-templated NiO nanostrutured electrodes. Scripta Materialia, 2015, 99, 29-32.	5.2	32
121	Gold sensitized sprayed SnO2 nanostructured film for enhanced LPG sensing. Journal of Analytical and Applied Pyrolysis, 2017, 124, 362-368.	5.5	32
122	Natural Carbonized Sugar as a Low-Temperature Ammonia Sensor Material: Experimental, Theoretical, and Computational Studies. ACS Applied Materials & Interfaces, 2017, 9, 43051-43060.	8.0	32
123	Microwave-assisted hierarchical bismuth oxide worm-like nanostructured films as room-temperature hydrogen gas sensors. Journal of Alloys and Compounds, 2019, 802, 244-251.	5.5	32
124	Solâ€“gel auto-combustionÂmediated cobalt ferrite nanoparticles: a potential material for antimicrobial applications. International Nano Letters, 2019, 9, 141-147.	5.0	32
125	Hematite nanostructures: Morphology-mediated liquefied petroleum gas sensors. Sensors and Actuators B: Chemical, 2013, 188, 669-674.	7.8	31
126	Asymmetric faradaic assembly of Bi₂O₃and MnO₂for a high-performance hybrid electrochemical energy storage device. RSC Advances, 2019, 9, 32154-32164.	3.6	31

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127	ment in magnetic and dielectric properties of the ruthenium-doped copper ferrite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si6.gif"		

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145	Large, Linear, and Tunable Positive Magnetoresistance of Mechanically Stable Graphene Foamâ€“Toward High-Performance Magnetic Field Sensors. ACS Applied Materials & Interfaces, 2017, 9, 1891-1898.	8.0	27
146	Fabrication and characterization of Ru-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif" overflow="scroll"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:mi mathvariant="normal">i</mml:mi><mml:mi mathvariant="normal">C</mml:mi><mml:mi mathvariant="normal">u</mml:mi><mml:msub><mml:mrow><mml:mi mathvariant="normal">F</mml:mi><mml:mi mathvariant="normal">e</mml:mi></mml:mrow><mml:mn>	2.3	27
147	Controlled repeated chemical growth of ZnO films for dye-sensitized solar cells. Current Applied Physics, 2008, 8, 549-553.	2.4	26
148	Study on photoelectrochemical solar cells of nanocrystalline Cd0.7Zn0.3Se -water soluble conjugated polymer. Electrochimica Acta, 2009, 54, 3169-3175.	5.2	26
149	CdS buffer-layer free highly efficient ZnO-CdSe photoelectrochemical cells. Applied Physics Letters, 2012, 101, .	3.3	26
150	Metal-free heterogeneous and mesoporous biogenic graphene-oxide nanoparticle-catalyzed synthesis of bioactive benzylpyrazolyl coumarin derivatives. RSC Advances, 2018, 8, 17373-17379.	3.6	26
151	Role of Ruthenium in the Dielectric, Magnetic Properties of Nickel Ferrite (Ruâ€“NiFe₂O₄) Nanoparticles and Their Application in Hydrogen Sensors. ACS Omega, 2019, 4, 12919-12926.	3.5	26
152	Room-temperature synthesis and CO₂-gas sensitivity of bismuth oxide nanosensors. RSC Advances, 2020, 10, 17217-17227.	3.6	26
153	Low-temperature wet chemical synthesis strategy of In2O3 for selective detection of NO2 down to ppb levels. Journal of Alloys and Compounds, 2018, 735, 2102-2110.	5.5	26
154	Electrochemical capacitive properties of spray-pyrolyzed copper-ferrite thin films. Current Applied Physics, 2009, 9, S98-S100.	2.4	25
155	Indoline-dye immobilized ZnO nanoparticles for whopping 5.44% light conversion efficiency. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 222, 366-369.	3.9	25
156	Roughness-based monitoring of transparency and conductivity in boron-doped ZnO thin films prepared by spray pyrolysis. Materials Research Bulletin, 2012, 47, 4257-4262.	5.2	25
157	Development of highly transparent seedless ZnO nanorods engineered for inverted polymer solar cells. Nanoscale, 2014, 6, 12130-12141.	5.6	25
158	Self-grown one-dimensional nickel sulfo-selenide nanostructured electrocatalysts for water splitting reactions. International Journal of Hydrogen Energy, 2020, 45, 15904-15914.	7.1	25
159	Room temperature PbS nanoparticle growth, incubation in porous TiO2 electrode for photosensitization application. Journal of Non-Crystalline Solids, 2007, 353, 1645-1649.	3.1	24
160	Co-deposition of TiO2/CdS films electrode for photo-electrochemical cells. Solar Energy, 2007, 81, 290-293.	6.1	24
161	Improved Photoelectrochemical Cell Performance of Tin Oxide with Functionalized Multiwalled Carbon Nanotubesâ€“Cadmium Selenide Sensitizer. ACS Applied Materials & Interfaces, 2015, 7, 25094-25104.	8.0	24
162	Room temperature LPG sensing properties using spray pyrolysis deposited nano-crystalline CdO thin films. Surfaces and Interfaces, 2019, 17, 100339.	3.0	24

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163	Successive ionic layer adsorption and reaction (SILAR) trend for nanocrystalline mercury sulfide thin films growth. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 129, 59-63.	3.5	23
164	Systematic interconnected web-like architecture growth of sprayed TiO2 films. Micron, 2007, 38, 500-504.	2.2	23
165	Optimization of growth of ternary CuInS2 thin films by ionic reactions in alkaline chemical bath as n-type photoabsorber layer. Materials Chemistry and Physics, 2009, 116, 28-33.	4.0	23
166	Electrochemical capacitive properties of micron-sized chemically grown cadmium oxide discrete crystals. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1741-1745.	2.7	23
167	SnO2 nanowall-arrays coated with rutile-TiO2 nanoneedles for high performance dye-sensitized solar cells. Dalton Transactions, 2012, 41, 10161.	3.3	23
168	Monoclinic WO3 nanorodsâ€“rutile TiO2 nanoparticles coreâ€“shell interface for efficient DSSCs. Dalton Transactions, 2013, 42, 10085.	3.3	23
169	Photosensitization of nanocrystalline TiO2 film electrode with cadmium sulphoselenide. Applied Surface Science, 2007, 253, 3922-3926.	6.1	22
170	Falcipain inhibitors as potential therapeutics for resistant strains of malaria: a patent review. Expert Opinion on Therapeutic Patents, 2013, 23, 165-187.	5.0	22
171	Promising ZnO-based DSSC performance using HMP molecular dyes of high extinction coefficients. Dalton Transactions, 2014, 43, 11305-11308.	3.3	22
172	DSSCs synergic effect in thin metal oxide layer-functionalized SnO2 photoanodes. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 295, 64-69.	3.9	22
173	Co-functionalized organic/inorganic hybrid ZnO nanorods as electron transporting layers for inverted organic solar cells. Nanoscale, 2016, 8, 5024-5036.	5.6	22
174	A simple wet-chemical synthesis, reaction mechanism, and charge storage application of cobalt oxide electrodes of different morphologies. Electrochimica Acta, 2017, 253, 151-162.	5.2	22
175	CdSe thin film growth: Primarily amorphous nanograins to self-assembled nanowires. Journal of Electroanalytical Chemistry, 2008, 615, 175-179.	3.8	21
176	Structural analysis and dye-sensitized solar cell application of electrodeposited tin oxide nanoparticles. Materials Letters, 2012, 79, 29-31.	2.6	21
177	Facile one-step hydrothermal synthesis and room-temperature NO2 sensing application of Î±-Fe2O3 sensor. Materials Chemistry and Physics, 2020, 246, 122799.	4.0	21
178	Ammonia gas sensing and magnetic permeability of enhanced surface area and high porosity lanthanum substituted Coâ€“Zn nano ferrites. Ceramics International, 2022, 48, 15043-15055.	4.8	21
179	A novel HMP-2 dye of high extinction coefficient designed for enhancing the performance of ZnO platelets. Electrochemistry Communications, 2009, 11, 752-755.	4.7	20
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