

Navaneethan M

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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
164	Sensitivity enhancement of ammonia gas sensor based on Ag/ZnO flower and nanoellipsoids at low temperature. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 672-683	8.5	148
163	Influence of Al doping on the structural, morphological, optical, and gas sensing properties of ZnO nanorods. <i>Journal of Alloys and Compounds</i> , 2017 , 698, 555-564	5.7	122
162	Improved thermoelectric performance of hot pressed nanostructured n-type SiGe bulk alloys. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6922	13	110
161	Controlled structural and compositional characteristic of visible light active ZnO/CuO photocatalyst for the degradation of organic pollutant. <i>Applied Surface Science</i> , 2017 , 418, 103-112	6.7	90
160	Low temperature ammonia gas sensor based on Mn-doped ZnO nanoparticle decorated microspheres. <i>Journal of Alloys and Compounds</i> , 2017 , 721, 182-190	5.7	85
159	Fabrication of Cr doped SnO ₂ nanoparticles based biosensor for the selective determination of riboflavin in pharmaceuticals. <i>Analyst, The</i> , 2013 , 138, 2061-7	5	81
158	Highly efficient visible-light photocatalytic activity of MoS ₂ /TiO ₂ mixtures hybrid photocatalyst and functional properties. <i>RSC Advances</i> , 2017 , 7, 24754-24763	3.7	70
157	High thermoelectric performance of (AgCrSe ₂) _{0.5} (CuCrSe ₂) _{0.5} nano-composites having all-scale natural hierarchical architectures. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17122-17129	13	65
156	CuCrSe ₂ : a high performance phonon glass and electron crystal thermoelectric material. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11289	13	65
155	Tuning the selectivity of NH ₃ gas sensing response using Cu-doped ZnO nanostructures. <i>Sensors and Actuators A: Physical</i> , 2018 , 269, 331-341	3.9	64
154	Controlled synthesis of organic ligand passivated ZnO nanostructures and their photocatalytic activity under visible light irradiation. <i>Dalton Transactions</i> , 2015 , 44, 10490-8	4.3	58
153	Enhanced charge transfer and separation of hierarchical CuO/ZnO composites: The synergistic effect of photocatalysis for the mineralization of organic pollutant in water. <i>Applied Surface Science</i> , 2019 , 484, 884-891	6.7	54
152	Size and Surface Effects of Ce-Doped NiO and Co ₃ O ₄ Nanostructures on Ferromagnetism Behavior Prepared by the Microwave Route. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23335-23348	3.8	54
151	A visible-light active catechol-metal oxide carbonaceous polymeric material for enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 384-396	13	54
150	Hydrothermal growth of reduced graphene oxide on cotton fabric for enhanced ultraviolet protection applications. <i>Materials Letters</i> , 2017 , 188, 123-126	3.3	51
149	Fast Response and High Sensitivity of ZnO Nanowires-Cobalt Phthalocyanine Heterojunction Based H ₂ S Sensor. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17713-24	9.5	49
148	Ruthenium based metallopolymer grafted reduced graphene oxide as a new hybrid solar light harvester in polymer solar cells. <i>Scientific Reports</i> , 2017 , 7, 43133	4.9	48

147	Synthesis, structural and optical properties of ZnO spindle/reduced graphene oxide composites with enhanced photocatalytic activity under visible light irradiation. <i>Optical Materials</i> , 2018 , 79, 186-195	3.3	46
146	Enhanced photocatalytic activities of ZnO dumbbell/reduced graphene oxide nanocomposites for degradation of organic pollutants via efficient charge separation pathway. <i>Applied Surface Science</i> , 2019 , 487, 1279-1288	6.7	44
145	Functional properties of amine-passivated ZnO nanostructures and dye-sensitized solar cell characteristics. <i>Chemical Engineering Journal</i> , 2012 , 213, 70-77	14.7	43
144	Fabrication of hierarchical ZnO nanostructures on cotton fabric for wearable device applications. <i>Applied Surface Science</i> , 2017 , 418, 352-361	6.7	42
143	Controlled synthesis of Ni-doped ZnO hexagonal microdiscs and their gas sensing properties at low temperature. <i>Chemical Physics Letters</i> , 2017 , 689, 92-99	2.5	42
142	Visible light induced photocatalytic degradation of methylene blue and rhodamine B from the catalyst of CdS nanowire. <i>Chemical Physics Letters</i> , 2017 , 684, 126-134	2.5	36
141	Shape controlled synthesis of hierarchical nickel sulfide by the hydrothermal method. <i>Dalton Transactions</i> , 2014 , 43, 17445-52	4.3	34
140	Synthesis and characterization of TiO ₂ nanorods by hydrothermal method with different pH conditions and their photocatalytic activity. <i>Applied Surface Science</i> , 2020 , 500, 144058	6.7	34
139	Fabrication of Cu ₂ MoS ₄ hollow nanotubes with rGO sheets for enhanced visible light photocatalytic performance. <i>CrystEngComm</i> , 2017 , 19, 2475-2486	3.3	33
138	Growth and influence of Gd doping on ZnO nanostructures for enhanced optical, structural properties and gas sensing applications. <i>Applied Surface Science</i> , 2020 , 499, 143857	6.7	33
137	Enhanced visible light induced photocatalytic activity on the degradation of organic pollutants by SnO nanoparticle decorated hierarchical ZnO nanostructures. <i>RSC Advances</i> , 2016 , 6, 89721-89731	3.7	32
136	Solvothermal growth of high surface area mesoporous anatase TiO ₂ nanospheres and investigation of dye-sensitized solar cell properties. <i>Journal of Power Sources</i> , 2013 , 242, 803-810	8.9	31
135	Enhanced performance on capacity retention of hierarchical NiS hexagonal nanoplate for highly stable asymmetric supercapacitor. <i>Electrochimica Acta</i> , 2018 , 283, 1053-1062	6.7	31
134	Growth, microstructure, structural and optical properties of PVP-capped CdS nanoflowers for efficient photocatalytic activity of Rhodamine B. <i>Materials Research Bulletin</i> , 2017 , 94, 190-198	5.1	30
133	Enhancement of photocatalytic H ₂ evolution from water splitting by construction of two dimensional gC ₃ N ₄ /NiAl layered double hydroxides. <i>Applied Surface Science</i> , 2020 , 509, 144656	6.7	30
132	Facile construction of djembe-like ZnO and its composite with g-C ₃ N ₄ as a visible-light-driven heterojunction photocatalyst for the degradation of organic dyes. <i>Materials Science in Semiconductor Processing</i> , 2020 , 106, 104754	4.3	30
131	Synergetic effect of CuS@ZnS nanostructures on photocatalytic degradation of organic pollutant under visible light irradiation. <i>RSC Advances</i> , 2017 , 7, 34366-34375	3.7	29
130	Hierarchical NiO@NiS@graphene nanocomposite as a sustainable counter electrode for Pt free dye-sensitized solar cell. <i>Applied Surface Science</i> , 2020 , 501, 144010	6.7	28

129	Surfactant free synthesis of CdS nanospheres, microstructural analysis, chemical bonding, optical properties and photocatalytic activities. <i>Superlattices and Microstructures</i> , 2017 , 104, 247-257	2.8	27
128	ZnO hierarchical 3D-flower like architectures and their gas sensing properties at room temperature. <i>Applied Surface Science</i> , 2018 , 449, 314-321	6.7	27
127	Erbium doped TiO ₂ interconnected mesoporous spheres as an efficient visible light catalyst for photocatalytic applications. <i>Applied Surface Science</i> , 2018 , 449, 755-763	6.7	27
126	Optical and surface morphological properties of triethylamine passivated lead sulphide nanoparticles. <i>Materials Chemistry and Physics</i> , 2009 , 117, 443-447	4.4	27
125	Synthesis of ZnO/SrO nanocomposites for enhanced photocatalytic activity under visible light irradiation. <i>Applied Surface Science</i> , 2017 , 418, 147-155	6.7	26
124	An investigation of flower shaped NiO nanostructures by microwave and hydrothermal route. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 5231-5240	2.1	25
123	Enhanced photon collection of high surface area carbonate-doped mesoporous TiO ₂ nanospheres in dye sensitized solar cells. <i>Materials Research Bulletin</i> , 2018 , 101, 353-362	5.1	24
122	Ultrathin layered MoS nanosheets with rich active sites for enhanced visible light photocatalytic activity.. <i>RSC Advances</i> , 2018 , 8, 26664-26675	3.7	24
121	Morphological evolution of monodispersed ZnO nanorods to 3 dimensional hierarchical flowers by hydrothermal growth. <i>CrystEngComm</i> , 2013 , 15, 8246	3.3	23
120	Far-field and hole injection enhancement by noble metal nanoparticles in organic light emitting devices. <i>Synthetic Metals</i> , 2016 , 211, 155-160	3.6	21
119	Synthesis of wurtzite ZnS nanorods by microwave assisted chemical route. <i>Materials Letters</i> , 2012 , 66, 276-279	3.3	21
118	Three dimensional flower-like CuO/Co ₃ O ₄ /r-GO heterostructure for high-performance asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020 , 846, 156439	5.7	20
117	0.8 V nanogenerator for mechanical energy harvesting using bismuth titanate/BDMS nanocomposite. <i>Applied Surface Science</i> , 2017 , 418, 362-368	6.7	19
116	Controlled synthesis and morphological investigation of self-assembled CuO nanostructures. <i>Materials Letters</i> , 2014 , 121, 129-132	3.3	19
115	Low temperature thermoelectric properties of Cu intercalated TiSe ₂ : a charge density wave material. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 111, 465-470	2.6	19
114	Chemical synthesis of ZnO hexagonal thin nanodisks and dye-sensitized solar cell performance. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 120-122	2.5	19
113	Temperature dependence of morphology, structural and optical properties of ZnS nanostructures synthesized by wet chemical route. <i>Journal of Alloys and Compounds</i> , 2010 , 506, 249-252	5.7	19
112	ZnS quantum dots impregnated-mesoporous TiO ₂ nanospheres for enhanced visible light induced photocatalytic application. <i>RSC Advances</i> , 2017 , 7, 26446-26457	3.7	18

111	Highly efficient 3-D hierarchical Bi ₂ WO ₆ catalyst for environmental remediation. <i>Applied Surface Science</i> , 2019 , 488, 696-706	6.7	18
110	Controlled exfoliation of monodispersed MoS ₂ layered nanostructures by a ligand-assisted hydrothermal approach for the realization of ultrafast degradation of an organic pollutant. <i>RSC Advances</i> , 2016 , 6, 109495-109505	3.7	18
109	Morphological transformation of ZnO nanoparticle to nanorods via solid-solid interaction at high temperature annealing and functional properties. <i>Scripta Materialia</i> , 2016 , 113, 163-166	5.6	18
108	Synthesis of highly size confined ZnS quantum dots and its functional characteristics. <i>Materials Letters</i> , 2012 , 68, 78-81	3.3	18
107	Structural and morphological evolution of CdS nanosheets-based superstructures by surfactant assisted solvothermal method. <i>Materials Chemistry and Physics</i> , 2012 , 136, 1038-1043	4.4	18
106	Optical, structural and surface morphological studies of bean-like triethylamine capped zinc selenide nanostructures. <i>Materials Letters</i> , 2009 , 63, 1931-1934	3.3	18
105	Bio-modified TiO nanoparticles with <i>Withania somnifera</i> , <i>Eclipta prostrata</i> and <i>Glycyrrhiza glabra</i> for anticancer and antibacterial applications. <i>Materials Science and Engineering C</i> , 2020 , 108, 110457	8.3	18
104	Hierarchically porous structured carbon derived from peanut shell as an enhanced high rate anode for lithium ion batteries. <i>Applied Surface Science</i> , 2019 , 492, 464-472	6.7	17
103	Hydrothermal growth of monodispersed rutile TiO ₂ nanorods and functional properties. <i>Materials Letters</i> , 2013 , 98, 38-41	3.3	17
102	Enhanced photocatalytic dye degradation activity of carbonate intercalated layered Zn, ZnNi and ZnCu hydroxides. <i>Applied Surface Science</i> , 2019 , 481, 385-393	6.7	16
101	Synthesis and functional properties of nanostructured Gd-doped WO ₃ /TiO ₂ composites for sensing applications. <i>Materials Science in Semiconductor Processing</i> , 2020 , 105, 104732	4.3	16
100	Functional properties and enhanced visible light photocatalytic performance of V ₃ O ₄ nanostructures decorated ZnO nanorods. <i>Applied Surface Science</i> , 2017 , 418, 171-178	6.7	15
99	Investigation of Gd-doped mesoporous TiO ₂ spheres for environmental remediation and energy applications. <i>Applied Surface Science</i> , 2019 , 489, 883-892	6.7	15
98	Highly efficient dye-sensitized solar cell performance from template derived high surface area mesoporous TiO ₂ nanospheres. <i>RSC Advances</i> , 2016 , 6, 68092-68099	3.7	15
97	Metal sulfide nanosheet-nitrogen-doped graphene hybrids as low-cost counter electrodes for dye-sensitized solar cells. <i>Applied Surface Science</i> , 2019 , 480, 177-185	6.7	14
96	Chemical synthesis and properties of spindle-like CuO nanostructures with porous nature. <i>Materials Letters</i> , 2015 , 139, 59-62	3.3	14
95	Surfactant free controllable synthesis of 2D-1D ZnO hierarchical nanostructure and its gas sensing properties. <i>Applied Surface Science</i> , 2018 , 449, 838-845	6.7	14
94	Enhanced thermoelectric properties of selenium-deficient layered TiSe _(2-x) : a charge-density-wave material. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18619-25	9.5	14

93	Synergistic effect and enhanced electrical properties of TiO ₂ /SnO ₂ /ZnO nanostructures as electron extraction layer for solar cell application. <i>Applied Surface Science</i> , 2019 , 498, 143702	6.7	13
92	Ultra-fast photocatalytic and dye-sensitized solar cell performances of mesoporous TiO ₂ nanospheres. <i>Applied Surface Science</i> , 2018 , 449, 729-735	6.7	13
91	Effects of multiple organic ligands on size uniformity and optical properties of ZnSe quantum dots. <i>Materials Research Bulletin</i> , 2012 , 47, 1892-1897	5.1	13
90	Chemical synthesis of monodispersed ZnSe nanowires and its functional properties. <i>Materials Letters</i> , 2012 , 81, 59-61	3.3	13
89	Synthesis of TiO ₂ nanoparticles with mesoporous spherical morphology by a wet chemical method. <i>Materials Letters</i> , 2012 , 82, 208-210	3.3	13
88	Thermoelectric performance of Cu intercalated layered TiSe ₂ above 300 K. <i>Journal of Applied Physics</i> , 2013 , 114, 114509	2.5	13
87	Ultrathin layered MoS ₂ and N-doped graphene quantum dots (N-GQDs) anchored reduced graphene oxide (rGO) nanocomposite-based counter electrode for dye-sensitized solar cells. <i>Carbon</i> , 2021 , 181, 107-117	10.4	13
86	Effect of Erbium on the Photocatalytic Activity of TiO ₂ /Ag Nanocomposites under Visible Light Irradiation. <i>ChemPhysChem</i> , 2015 , 16, 3084-92	3.2	12
85	Effect of organic-ligands on the toxicity profiles of CdS nanoparticles and functional properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 126, 407-13	6	12
84	Synthesis of organic ligand passivated zinc selenide nanorods via wet chemical route. <i>Materials Letters</i> , 2010 , 64, 2094-2097	3.3	12
83	Enhancement of power factor by energy filtering effect in hierarchical BiSbTe ₃ nanostructures for thermoelectric applications. <i>Applied Surface Science</i> , 2017 , 418, 246-251	6.7	11
82	Growth of Fe doped ZnO nanoellipsoids for selective NO ₂ gas sensing application. <i>Chemical Physics Letters</i> , 2019 , 734, 136725	2.5	11
81	Chemical synthesis and functional properties of magnesium doped ZnSe nanoparticles. <i>Materials Letters</i> , 2013 , 100, 54-57	3.3	11
80	Thermoelectric performance of Cu-doped MoS ₂ layered nanosheets for low grade waste heat recovery. <i>Applied Surface Science</i> , 2020 , 505, 144066	6.7	11
79	Hydrothermal growth of ligand-passivated high-surface-area TiO ₂ nanoparticles and dye-sensitized solar cell characteristics. <i>Scripta Materialia</i> , 2013 , 68, 396-399	5.6	10
78	Synthesis and characterization of branchlet-like SrCO ₃ nanorods using triethylamine as a capping agent by wet chemical method. <i>Applied Surface Science</i> , 2019 , 487, 1271-1278	6.7	9
77	Investigation of photocatalytic behavior of l-aspartic acid stabilized Zn(1-x)MnxS solid solutions on methylene blue. <i>Applied Catalysis A: General</i> , 2014 , 476, 1-8	5.1	9
76	The construction of a dual direct Z-scheme NiAl LDH/g-C ₃ N ₄ /Ag ₃ PO ₄ nanocomposite for enhanced photocatalytic oxygen and hydrogen evolution. <i>Nanoscale Advances</i> , 2021 , 3, 2075-2088	5.1	9

75	Influence of organic ligands on the formation and functional properties of CdS nanostructures. <i>Applied Surface Science</i> , 2017 , 418, 346-351	6.7	8
74	Monodispersed synthesis of hierarchical wurtzite ZnS nanostructures and its functional properties. <i>Materials Letters</i> , 2012 , 81, 209-211	3.3	8
73	Interface driven energy-filtering and phonon scattering of polyaniline incorporated ultrathin layered molybdenum disulphide nanosheets for promising thermoelectric performance. <i>Journal of Colloid and Interface Science</i> , 2021 , 584, 295-309	9.3	8
72	Enhanced thermoelectric figure-of-merit of p-type SiGe through TiO ₂ nano-inclusions and modulation doping of boron. <i>Materialia</i> , 2018 , 4, 147-156	3.2	8
71	Enhanced thermoelectric figure-of-merit of MoS ₂ /hMoO ₃ nanosheets via tuning of sulphur vacancies. <i>Chemical Engineering Journal</i> , 2021 , 416, 128484	14.7	8
70	Yttrium incorporated TiO ₂ /rGO nanocomposites as an efficient charge transfer layer with enhanced mobility and electrical conductivity. <i>Journal of Alloys and Compounds</i> , 2021 , 885, 160936	5.7	8
69	Unusual enhancement in the electroreduction of oxygen by NiCoPt by surface tunability through potential cycling. <i>RSC Advances</i> , 2017 , 7, 11777-11785	3.7	7
68	Remarkable Improvement of Thermoelectric Figure-of-Merit in SnTe through In Situ-Created Te Nano-inclusions. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7113-7120	6.1	7
67	Effect of Al doping on the electrical and optical properties of TiO ₂ embedded Graphene Oxide nanosheets for opto-electronic applications. <i>Applied Surface Science</i> , 2018 , 449, 332-339	6.7	7
66	Organic molecules passivated Mn doped Zinc Selenide quantum dots and its properties. <i>Applied Surface Science</i> , 2011 , 257, 7699-7703	6.7	7
65	Fabrication of novel hybrid Z-Scheme WO ₃ @g-CN@MWCNT nanostructure for photocatalytic degradation of tetracycline and the evaluation of antimicrobial activity. <i>Chemosphere</i> , 2022 , 287, 132050	8.4	7
64	Zn and Sr co-doped TiO ₂ mesoporous nanospheres as photoanodes in dye sensitized solar cell. <i>Materials Chemistry and Physics</i> , 2019 , 234, 259-267	4.4	6
63	Fabrication of bistable switching device using CdS nanorods embedded in PMMA (polymethylmethacrylate) nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 9010-9015	2.1	6
62	Electrochemical Sensor Based on Fe Doped Hydroxyapatite-Carbon Nanotubes Composite for L-Dopa Detection in the Presence of Uric Acid. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 6185-92	1.3	6
61	Organic ligand assisted low temperature synthesis of lead sulfide nanocubes and its optical properties. <i>Materials Letters</i> , 2012 , 71, 44-47	3.3	6
60	Influence of lanthanide ion on the morphology and luminescence properties of cadmium sulphide nanocrystals. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 5816-5821	5.7	6
59	One-step fabrication of ultrathin layered 1T@2H phase MoS ₂ with high catalytic activity based counter electrode for photovoltaic devices. <i>Journal of Materials Science and Technology</i> , 2020 , 51, 94-101	9.1	6
58	High-performance electrocatalytic and cationic substitution in Cu ₂ ZnSnS ₄ as a low-cost counter electrode for Pt-free dye-sensitized solar cells. <i>Journal of Materials Science</i> , 2021 , 56, 4135-4150	4.3	6

57	Hydrothermal growth of highly monodispersed TiO ₂ nanoparticles: Functional properties and dye-sensitized solar cell performance. <i>Applied Surface Science</i> , 2017 , 418, 186-193	6.7	5
56	Determination of gas sensing properties of thermally evaporated WO ₃ nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 1389-1394	2.1	5
55	Formation and morphological investigation of petal-like cadmium sulphide nanostructures. <i>Optical Materials</i> , 2013 , 35, 1652-1658	3.3	5
54	Inorganic surface passivation of CdS nanocrystals resulting in strong luminescence. <i>Journal of Alloys and Compounds</i> , 2009 , 486, 844-847	5.7	5
53	Synthesis and Surface Passivation of CuInS ₂ /MnS/ZnS Core-Multishell Nanocrystals, Their Optical, Structural, and Morphological Characterization, and Their Bioimaging Applications. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 15703-15721	3.9	5
52	Investigation on mesoporous bimetallic tungstate nanostructure for high-performance solid-state supercapattery. <i>Journal of Alloys and Compounds</i> , 2021 , 875, 160066	5.7	5
51	Effect of organic ligand on ZnO nanostructures and to investigate the photocatalytic activity under visible light illumination. <i>Materials Science in Semiconductor Processing</i> , 2019 , 103, 104608	4.3	4
50	Chemical synthesis and functional properties of hexamethylenetetramine capped ZnSe nanorods. <i>Materials Letters</i> , 2014 , 125, 32-35	3.3	4
49	Effect of ethylenediamine on morphology of 2D Co-Mo-S@NG hybrids and their enhanced electrocatalytic activity for DSSCs application. <i>Materials Science in Semiconductor Processing</i> , 2020 , 105, 104725	4.3	4
48	Hierarchically ordered macroporous TiO architecture via self-assembled strategy for environmental remediation. <i>Chemosphere</i> , 2022 , 288, 132236	8.4	4
47	Interface enriched highly interlaced layered MoS/NiS nanocomposites for the photocatalytic degradation of rhodamine B dye.. <i>RSC Advances</i> , 2021 , 11, 19283-19293	3.7	4
46	Ultra-low thermal conductivity via interfacial phonon scattering in PbTe hoppercubes/PbTeO ₃ microrods for thermoelectric applications. <i>Journal of Alloys and Compounds</i> , 2019 , 799, 26-35	5.7	3
45	Preparation of Cr ³⁺ -Substituted NiFe ₂ O ₄ Nanoparticles and Its Microwave Absorption Properties. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 1423-1429	1.5	3
44	Thermoelectric performance of layered Sr _x TiSe ₂ above 300 K. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 445002	1.8	3
43	Synergistic effect of grain boundaries and phonon engineering in Sb substituted BiSe nanostructures for thermoelectric applications.. <i>Journal of Colloid and Interface Science</i> , 2021 , 612, 97-110	8.3	3
42	Investigation on synergistic effect of rGO and carbon quantum dots-embedded ZnO hollow spheres for improved photocatalytic aqueous pollutant removal process. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 28633	2.1	3
41	Improvement of Photocatalytic Activity by Zn Doping in Cu ₂ O. <i>Physics of the Solid State</i> , 2020 , 62, 1796-1802	1.8	3
40	Band Convergence and Phonon Scattering Mediated Improved Thermoelectric Performance of SnTe/BbTe Nanocomposites. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8882-8891	6.1	3

39	Interface effect and band engineering in Bi ₂ Te ₃ :C and Bi ₂ Te ₃ :Ni-Cu with enhanced thermopower for self-powered wearable thermoelectric generator. <i>Journal of Alloys and Compounds</i> , 2021 , 868, 1589057	5.7	3
38	Cation disorder and bond anharmonicity synergistically boosts the thermoelectric performance of p-type AgSbSe ₂ . <i>CrystEngComm</i> , 2021 , 23, 5522-5530	3.3	3
37	Conductometric NO ₂ gas sensor based on Co-incorporated MoS ₂ nanosheets for room temperature applications. <i>Sensors and Actuators B: Chemical</i> , 2022 , 360, 131600	8.5	3
36	Chemical synthesis and functional properties of multi-ligands passivated lead sulfide nanoparticles. <i>Materials Letters</i> , 2015 , 158, 75-79	3.3	2
35	Fabrication of ultrathin poly-crystalline SiGe-on-insulator layer for thermoelectric applications. <i>Journal of Physics Communications</i> , 2019 , 3, 075007	1.2	2
34	Chemical synthesis and functional properties of monodispersed lanthanum phosphate nanorods. <i>Materials Letters</i> , 2013 , 112, 16-19	3.3	2
33	Preparation of N-methylaniline capped mesoporous TiO ₂ spheres by simple wet chemical method. <i>Materials Research Bulletin</i> , 2013 , 48, 1541-1544	5.1	2
32	Liquid phase exfoliated WS ₂ nanosheet-based gas sensor for room temperature NO ₂ detection. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	2
31	Synergic effect of Sn-doped TiO ₂ nanostructures for enhanced visible light photocatalysis. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	2
30	Design and preparation of NiCoS nanostructures on Ni foam for high-performance asymmetric supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> ,	2.1	2
29	Interfacial engineering effect and bipolar conduction of Ni-doped MoS ₂ nanostructures for thermoelectric application. <i>Journal of Alloys and Compounds</i> , 2021 , 895, 162493	5.7	2
28	Structural, chemical and low-temperature magnetic properties of lead-free 0.6NiFe ₂ O ₄ -0.4Na _{0.5} Bi _{0.5} TiO ₃ magnetoelectric composite. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	2
27	Enhanced catalytic performance of Cu ₂ ZnSnS ₄ /MoS ₂ nanocomposites based counter electrode for Pt-free dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2021 , 894, 162166	5.7	2
26	Solvothermal growth of diethylamine capped TiO ₂ nanoparticles and functional properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 2380-2383	2.1	1
25	Effect of densification technique and carrier concentration on the thermoelectric properties of n-type Cu _{1.45} Ni _{1.45} Te ₂ ternary compound. <i>CrystEngComm</i> , 2020 , 22, 8100-8109	3.3	1
24	Defect manipulation of WO ₃ nanostructures by yttrium for ultra-sensitive and highly selective NO ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2021 , 131057	8.5	1
23	Interface effect of graphene oxide in MoS ₂ layered nanosheets for thermoelectric application. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	1
22	Surface Modification of ZnO Nanowires with CuO: A Tool to Realize Highly-Sensitive H ₂ S Sensor. <i>Physics of the Solid State</i> , 2021 , 63, 460-467	0.8	1

21	Plasmon enfolded TiO ₂ hierarchical photoanode: fabrication and the performance evaluation as liquid-based dye-sensitized solar cell. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	1
20	Recoverable and reusable visible-light photocatalytic performance of CVD grown atomically thin MoS films. <i>Chemosphere</i> , 2022 , 287, 132347	8.4	1
19	Chemical synthesis of highly size-confined triethylamine-capped (hbox {TiO}_{2}) nanoparticles and its dye-sensitized solar cell performance. <i>Bulletin of Materials Science</i> , 2018 , 41, 1	1.7	0
18	Study on electrochemical performance of temperature-dependent Cu ²⁺ system. <i>Journal of Materials Science: Materials in Electronics</i> , 2022 , 33, 9650	2.1	0
17	CuO decorated MoS ₂ nanostructures grown on carbon fabric with enhanced power factor for wearable thermoelectric application. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 163769	5.7	0
16	Enhanced photocatalytic activity of ZnO hexagonal tube/r-GO composite on degradation of organic aqueous pollutant and study of charge transport properties. <i>Chemosphere</i> , 2021 , 291, 132782	8.4	0
15	Synthesis of r-GO-incorporated CoWO ₄ nanostructure for high-performance supercapattery applications. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	0
14	Co substituted SnS ₂ nanoflakes performed as cost-effective counter electrode for DSSCs applications. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	0
13	Annealing effect on photocatalytic activity of ZnO nanostructures for organic dye degradation. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	0
12	Bismuth induced Cu ₇ Te ₄ /Sb ₂ Te ₃ nanocomposites for higher thermoelectric power factor and carrier properties. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	0
11	Exchange bias, magnetic, and dielectric properties of La ₂ FeMnO ₆ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	0
10	Interfacial charge transport of Ag ²⁺ -decorated CuI thin film for solar cell application. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	0
9	Effect of Sr doping in ZnO microspheres for solar light-driven photodegradation of organic pollutants. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	0
8	Hydrothermally synthesized strontium-modified ZnO hierarchical nanostructured photocatalyst for second-generation fluoroquinolone degradation. <i>Applied Nanoscience (Switzerland)</i> ,1	3.3	0
7	A facile synthesis of Zn-doped TiO ₂ nanostructures for enhanced photocatalytic performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2022 , 33, 9798	2.1	0
6	Hydrothermally Derived Layered 2D SnS Nanosheets for Near Infra-Red (NIR) Photodetectors. <i>IEEE Photonics Technology Letters</i> , 2021 , 33, 1499-1502	2.2	0
5	Enhancing the thermoelectric performance by defect structures induced in p-type polypyrrole-polyaniline nanocomposite for room-temperature thermoelectric applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2022 , 33, 11650	2.1	0
4	Synthesis of cluster like TiO ₂ mesoporous spheres and nanorods and their applications in dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 14935-14943	2.1	

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