J Archana

List of Publications by Year
in descending order

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40	1,066	394421	414414
papers	citations	19 h-index	32 g-index

40	40	40	1083
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Controlled structural and compositional characteristic of visible light active ZnO/CuO photocatalyst for the degradation of organic pollutant. Applied Surface Science, 2017, 418, 103-112.	6.1	137
2	Highly efficient visible-light photocatalytic activity of MoS₂â€“TiO₂ mixtures hybrid photocatalyst and functional properties. RSC Advances, 2017, 7, 24754-24763.	3.6	96
3	Hydrothermal growth of reduced graphene oxide on cotton fabric for enhanced ultraviolet protection applications. Materials Letters, 2017, 188, 123-126.	2.6	75
4	Controlled synthesis of organic ligand passivated ZnO nanostructures and their photocatalytic activity under visible light irradiation. Dalton Transactions, 2015, 44, 10490-10498.	3.3	68
5	Ultrathin layered MoS₂ nanosheets with rich active sites for enhanced visible light photocatalytic activity. RSC Advances, 2018, 8, 26664-26675.	3.6	54
6	Ultrathin layered MoS2 and N-doped graphene quantum dots (N-GQDs) anchored reduced graphene oxide (rGO) nanocomposite-based counter electrode for dye-sensitized solar cells. Carbon, 2021, 181, 107-117.	10.3	52
7	Fabrication of novel hybrid Z-Scheme WO3@g-C3N4@MWCNT nanostructure for photocatalytic degradation of tetracycline and the evaluation of antimicrobial activity. Chemosphere, 2022, 287, 132050.	8.2	49
8	Hierarchical NiO@NiS@graphene nanocomposite as a sustainable counter electrode for Pt free dye-sensitized solar cell. Applied Surface Science, 2020, 501, 144010.	6.1	44
9	Synergetic effect of CuS@ZnS nanostructures on photocatalytic degradation of organic pollutant under visible light irradiation. RSC Advances, 2017, 7, 34366-34375.	3.6	40
10	Synthesis of ZnO/SrO nanocomposites for enhanced photocatalytic activity under visible light irradiation. Applied Surface Science, 2017, 418, 147-155.	6.1	36
11	One-step fabrication of ultrathin layered 1T@2H phase MoS2 with high catalytic activity based counter electrode for photovoltaic devices. Journal of Materials Science and Technology, 2020, 51, 94-101.	10.7	30
12	Controlled exfoliation of monodispersed MoS₂ layered nanostructures by a ligand-assisted hydrothermal approach for the realization of ultrafast degradation of an organic pollutant. RSC Advances, 2016, 6, 109495-109505.	3.6	28
13	Yttrium incorporated TiO2/rGO nanocomposites as an efficient charge transfer layer with enhanced mobility and electrical conductivity. Journal of Alloys and Compounds, 2021, 885, 160936.	5.5	27
14	ZnS quantum dots impregnated-mesoporous TiO₂ nanospheres for enhanced visible light induced photocatalytic application. RSC Advances, 2017, 7, 26446-26457.	3.6	26
15	Solution processed edge activated Ni-MoS2 nanosheets for highly sensitive room temperature NO2 gas sensor applications. Applied Surface Science, 2022, 600, 154086.	6.1	26
16	Interfacial engineering effect and bipolar conduction of Ni- doped MoS2 nanostructures for thermoelectric application. Journal of Alloys and Compounds, 2022, 895, 162493.	5.5	24
17	Synergistic effect of grain boundaries and phonon engineering in Sb substituted Bi2Se3 nanostructures for thermoelectric applications. Journal of Colloid and Interface Science, 2022, 612, 97-110.	9.4	24
18	Highly efficient dye-sensitized solar cell performance from template derived high surface area mesoporous TiO₂ nanospheres. RSC Advances, 2016, 6, 68092-68099.	3.6	20

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19	Interface driven energy-filtering and phonon scattering of polyaniline incorporated ultrathin layered molybdenum disulphide nanosheets for promising thermoelectric performance. Journal of Colloid and Interface Science, 2021, 584, 295-309.	9.4	20
20	Enhanced thermoelectric figure-of-merit of MoS2/Î±-MoO3 nanosheets via tuning of sulphur vacancies. Chemical Engineering Journal, 2021, 416, 128484.	12.7	20
21	Enhanced catalytic performance of Cu2ZnSnS4/MoS2 nanocomposites based counter electrode for Pt-free dye-sensitized solar cells. Journal of Alloys and Compounds, 2022, 894, 162166.	5.5	20
22	Functional properties and enhanced visible light photocatalytic performance of V3O4 nanostructures decorated ZnO nanorods. Applied Surface Science, 2017, 418, 171-178.	6.1	19
23	Interface effect and band engineering in Bi2Te3:C and Bi2Te3:Ni-Cu with enhanced thermopower for self-powered wearable thermoelectric generator. Journal of Alloys and Compounds, 2021, 868, 158905.	5.5	17
24	Interface enriched highly interlaced layered MoS₂/NiS₂ nanocomposites for the photocatalytic degradation of rhodamine B dye. RSC Advances, 2021, 11, 19283-19293.	3.6	17
25	Cation disorder and bond anharmonicity synergistically boosts the thermoelectric performance of p-type AgSbSe₂. CrystEngComm, 2021, 23, 5522-5530.	2.6	15
26	High-performance electrocatalytic and cationic substitution in Cu2ZnSnS4 as a low-cost counter electrode for Pt-free dye-sensitized solar cells. Journal of Materials Science, 2021, 56, 4135-4150.	3.7	13
27	CuO decorated MoS2 nanostructures grown on carbon fabric with enhanced power factor for wearable thermoelectric application. Journal of Alloys and Compounds, 2022, 904, 163769.	5.5	12
28	Enhanced photo-response of CdTe Thin film via Mo doping prepared using electron beam evaporation technique. Journal of Materials Science: Materials in Electronics, 2020, 31, 21059-21072.	2.2	10
29	Hierarchically ordered macroporous TiO2 architecture via self-assembled strategy for environmental remediation. Chemosphere, 2022, 288, 132236.	8.2	10
30	Enhanced seebeck coefficient and low thermal conductivity of Cu2SexTe1-x solid solutions via minority carrier blocking and interfacial effects. Journal of Alloys and Compounds, 2020, 835, 155188.	5.5	9
31	Reduced graphene oxide-wrapped Î±-Mn2O3/Î±-MnO2 nanowires for electrocatalytic oxygen reduction in alkaline medium. Journal of Materials Science: Materials in Electronics, 2022, 33, 8644-8654.	2.2	8
32	Hydrothermally synthesized strontium-modified ZnO hierarchical nanostructured photocatalyst for second-generation fluoroquinolone degradation. Applied Nanoscience (Switzerland), 2022, 12, 1869-1884.	3.1	5
33	Phase transition induced thermoelectric properties of Cu2Te by melt growth process. Materials Letters, 2021, 298, 129957.	2.6	4
34	Ultra-low thermal conductivity via interfacial phonon scattering in PbTe hoppercubes/PbTeO3 microrods for thermoelectric applications. Journal of Alloys and Compounds, 2019, 799, 26-35.	5.5	3
35	Realizing an enhanced Seebeck coefficient and extremely low thermal conductivity in anharmonic Sb-substituted SnSe nanostructures. Journal of Alloys and Compounds, 2022, , 165961.	5.5	3
36	Effect of densification technique and carrier concentration on the thermoelectric properties of n-type Cu1.45Ni1.45Te2 ternary compound. CrystEngComm, 2020, 22, 8100-8109.	2.6	2

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37	Hydrothermally Derived Layered 2D SnS Nanosheets for Near Infra-Red (NIR) Photodetectors. IEEE Photonics Technology Letters, 2021, 33, 1499-1502.	2.5	2
38	Chemical synthesis of highly size-confined triethylamine-capped $$hbox {TiO}_{2}$$ TiO 2 nanoparticles and its dye-sensitized solar cell performance. Bulletin of Materials Science, 2018, 41, 1.	1.7	1
39	Synthesis of cluster like TiO2 mesoporous spheres and nanorods and their applications in dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 14935-14943.	2.2	0
40	Oxide-based catalysis: tailoring surface structures via organic ligands and related interfacial charge carrier for environmental remediation. RSC Advances, 2021, 11, 19059-19069.	3.6	0