

# J Archana

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,066  
citations

394421

19  
h-index

414414

32  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1083  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Reduced graphene oxide-wrapped $\text{Mn}_2\text{O}_3/\text{MnO}_2$ nanowires for electrocatalytic oxygen reduction in alkaline medium. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 8644-8654.                                   | 2.2  | 8         |
| 2  | Enhanced catalytic performance of $\text{Cu}_2\text{ZnSnS}_4/\text{MoS}_2$ nanocomposites based counter electrode for Pt-free dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162166.  | 5.5  | 20        |
| 3  | Hierarchically ordered macroporous $\text{TiO}_2$ architecture via self-assembled strategy for environmental remediation. <i>Chemosphere</i> , 2022, 288, 132236.  | 8.2  | 10        |
| 4  | Fabrication of novel hybrid Z-Scheme $\text{WO}_3@g\text{-C}_3\text{N}_4@\text{MWCNT}$ nanostructure for photocatalytic degradation of tetracycline and the evaluation of antimicrobial activity. <i>Chemosphere</i> , 2022, 287, 132050.                      | 8.2  | 49        |
| 5  | Interfacial engineering effect and bipolar conduction of Ni-doped $\text{MoS}_2$ nanostructures for thermoelectric application. <i>Journal of Alloys and Compounds</i> , 2022, 895, 162493.  | 5.5  | 24        |
| 6  | Synergistic effect of grain boundaries and phonon engineering in Sb substituted $\text{Bi}_2\text{Se}_3$ nanostructures for thermoelectric applications. <i>Journal of Colloid and Interface Science</i> , 2022, 612, 97-110.                                  | 9.4  | 24        |
| 7  | $\text{CuO}$ decorated $\text{MoS}_2$ nanostructures grown on carbon fabric with enhanced power factor for wearable thermoelectric application. <i>Journal of Alloys and Compounds</i> , 2022, 904, 163769.  | 5.5  | 12        |
| 8  | Hydrothermally synthesized strontium-modified $\text{ZnO}$ hierarchical nanostructured photocatalyst for second-generation fluoroquinolone degradation. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 1869-1884.  | 3.1  | 5         |
| 9  | Realizing an enhanced Seebeck coefficient and extremely low thermal conductivity in anharmonic Sb-substituted $\text{SnSe}$ nanostructures. <i>Journal of Alloys and Compounds</i> , 2022, , 165961.   | 5.5  | 3         |
| 10 | Solution processed edge activated Ni- $\text{MoS}_2$ nanosheets for highly sensitive room temperature $\text{NO}_2$ gas sensor applications. <i>Applied Surface Science</i> , 2022, 600, 154086.   | 6.1  | 26        |
| 11 | 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.         | 9.4  | 20        |
| 12 | High-performance electrocatalytic and cationic substitution in $\text{Cu}_2\text{ZnSnS}_4$ as a low-cost counter electrode for Pt-free dye-sensitized solar cells. <i>Journal of Materials Science</i> , 2021, 56, 4135-4150.                                  | 3.7  | 13        |
| 13 | Cation disorder and bond anharmonicity synergistically boosts the thermoelectric performance of p-type $\text{AgSbSe}_2$ . <i>CrystEngComm</i> , 2021, 23, 5522-5530.  | 2.6  | 15        |
| 14 | Interface effect and band engineering in $\text{Bi}_2\text{Te}_3:\text{C}$ and $\text{Bi}_2\text{Te}_3:\text{Ni-Cu}$ with enhanced thermopower for self-powered wearable thermoelectric generator. <i>Journal of Alloys and Compounds</i> , 2021, 868, 158905. | 5.5  | 17        |
| 15 | Enhanced thermoelectric figure-of-merit of $\text{MoS}_2/\text{MoO}_3$ nanosheets via tuning of sulphur vacancies. <i>Chemical Engineering Journal</i> , 2021, 416, 128484.  | 12.7 | 20        |
| 16 | Ultrathin layered $\text{MoS}_2$ 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.                                    | 10.3 | 52        |
| 17 | Phase transition induced thermoelectric properties of $\text{Cu}_2\text{Te}$ by melt growth process. <i>Materials Letters</i> , 2021, 298, 129957.   | 2.6  | 4         |
| 18 | Yttrium incorporated $\text{TiO}_2/\text{rGO}$ nanocomposites as an efficient charge transfer layer with enhanced mobility and electrical conductivity. <i>Journal of Alloys and Compounds</i> , 2021, 885, 160936.  | 5.5  | 27        |

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|----|--|------|-----------|
| 19 | 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         |
| 20 | Interface enriched highly interlaced layered MoS <sub>2</sub> /NiS <sub>2</sub> nanocomposites for the photocatalytic degradation of rhodamine B dye. RSC Advances, 2021, 11, 19283-19293.                                   | 3.6  | 17        |
| 21 | Hydrothermally Derived Layered 2D SnS Nanosheets for Near Infra-Red (NIR) Photodetectors. IEEE Photonics Technology Letters, 2021, 33, 1499-1502.  | 2.5  | 2         |
| 22 | 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        |
| 23 | One-step fabrication of ultrathin layered 1T@2H phase MoS <sub>2</sub> with high catalytic activity based counter electrode for photovoltaic devices. Journal of Materials Science and Technology, 2020, 51, 94-101.         | 10.7 | 30        |
| 24 | 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        |
| 25 | Effect of densification technique and carrier concentration on the thermoelectric properties of n-type Cu <sub>1.45</sub> Ni <sub>1.45</sub> Te <sub>2</sub> ternary compound. CrystEngComm, 2020, 22, 8100-8109.            | 2.6  | 2         |
| 26 | Enhanced seebeck coefficient and low thermal conductivity of Cu <sub>2</sub> SexTe <sub>1-x</sub> solid solutions via minority carrier blocking and interfacial effects. Journal of Alloys and Compounds, 2020, 835, 155188. | 5.5  | 9         |
| 27 | Ultra-low thermal conductivity via interfacial phonon scattering in PbTe hoppercubes/PbTeO <sub>3</sub> microrods for thermoelectric applications. Journal of Alloys and Compounds, 2019, 799, 26-35.                        | 5.5  | 3         |
| 28 | Chemical synthesis of highly size-confined triethylamine-capped TiO <sub>2</sub> nanoparticles and its dye-sensitized solar cell performance. Bulletin of Materials Science, 2018, 41, 1.                                    | 1.7  | 1         |
| 29 | Ultrathin layered MoS <sub>2</sub> nanosheets with rich active sites for enhanced visible light photocatalytic activity. RSC Advances, 2018, 8, 26664-26675.   | 3.6  | 54        |
| 30 | Synthesis of ZnO/SrO nanocomposites for enhanced photocatalytic activity under visible light irradiation. Applied Surface Science, 2017, 418, 147-155.   | 6.1  | 36        |
| 31 | Functional properties and enhanced visible light photocatalytic performance of V <sub>3</sub> O <sub>4</sub> nanostructures decorated ZnO nanorods. Applied Surface Science, 2017, 418, 171-178.                             | 6.1  | 19        |
| 32 | Highly efficient visible-light photocatalytic activity of MoS <sub>2</sub> @TiO <sub>2</sub> mixtures hybrid photocatalyst and functional properties. RSC Advances, 2017, 7, 24754-24763.                                    | 3.6  | 96        |
| 33 | ZnS quantum dots impregnated-mesoporous TiO <sub>2</sub> nanospheres for enhanced visible light induced photocatalytic application. RSC Advances, 2017, 7, 26446-26457.  | 3.6  | 26        |
| 34 | Synthesis of cluster like TiO <sub>2</sub> 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         |
| 35 | 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       |
| 36 | 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        |

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|----|--|-----|-----------|
| 37 | Hydrothermal growth of reduced graphene oxide on cotton fabric for enhanced ultraviolet protection applications. <i>Materials Letters</i> , 2017, 188, 123-126.  | 2.6 | 75        |
| 38 | Highly efficient dye-sensitized solar cell performance from template derived high surface area mesoporous TiO <sub>2</sub> nanospheres. <i>RSC Advances</i> , 2016, 6, 68092-68099.  | 3.6 | 20        |
| 39 | Controlled exfoliation of monodispersed MoS <sub>2</sub> 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. | 3.6 | 28        |
| 40 | Controlled synthesis of organic ligand passivated ZnO nanostructures and their photocatalytic activity under visible light irradiation. <i>Dalton Transactions</i> , 2015, 44, 10490-10498.  | 3.3 | 68        |