

Pugazhendi Ilanchezhiyan

List of Publications by Year in descending order

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33
papers

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | One dimensional ZnWO ₄ nanorods coupled with WO ₃ nanoplates heterojunction composite for efficient photocatalytic and photoelectrochemical activity. <i>Ceramics International</i> , 2022, 48, 4332-4340. | 4.8 | 22 |
| 2 | Hybrid CsPbBr ₃ quantum dots decorated two dimensional MoO ₃ nanosheets photodetectors with enhanced performance. <i>Journal of Materials Research and Technology</i> , 2022, 18, 4946-4955. | 5.8 | 6 |
| 3 | Robust photocatalytic and photoelectrochemical functions of PrFe _{1-x} Mn _x O ₃ perovskite nanostructures. <i>Ceramics International</i> , 2022, 48, 29332-29339. | 4.8 | 5 |
| 4 | Fabrication of Zn _{1-x} Ni _x WO ₄ nanorods with superior photoelectrochemical and photocatalytic performances. <i>Ceramics International</i> , 2022, 48, 29438-29444. | 4.8 | 3 |
| 5 | SmFeO_3 and $\text{SmFe}_{1-x}\text{Er}_x\text{O}_3$ based perovskite nanorods for improved oxygen and hydrogen evolution functions. <i>International Journal of Energy Research</i> , 2021, 45, 3955-3965. | 4.5 | 9 |
| 6 | 3D flexible W _x V _{1-x} Se ₂ nanoplates arrays on carbon cloth as an novel efficient hydrogen evolution electrocatalysts. <i>Applied Surface Science</i> , 2021, 540, 148297. | 6.1 | 7 |
| 7 | Highly carbonized tungsten trioxide thin films and their enhanced oxygen evolution related electrocatalytic functions. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2216-2223. | 5.8 | 6 |
| 8 | Neodymium (Nd) based oxide perovskite nanostructures for photocatalytic and photoelectrochemical water splitting functions. <i>Environmental Research</i> , 2021, 197, 111128. | 7.5 | 14 |
| 9 | Enhanced UV photodetectivity in solution driven ZnO nanosheets via piezo-phototronic effect. <i>Journal of Materials Research and Technology</i> , 2021, 13, 397-407. | 5.8 | 5 |
| 10 | Piezo-phototronic effect triggered flexible UV photodetectors based on ZnO nanosheets/GaN nanorods arrays. <i>Applied Surface Science</i> , 2021, 558, 149896. | 6.1 | 33 |
| 11 | Boosting the physico-chemical and charge transfer characteristics in Zn _{1-x} TM _x O nanostructures for enhanced photocatalytic and photoelectrochemical activities. <i>Journal of Materials Research and Technology</i> , 2021, , . | 5.8 | 2 |
| 12 | Elevating the charge separation of MgFe ₂ O ₄ nanostructures by Zn ions for enhanced photocatalytic and photoelectrochemical water splitting. <i>Chemosphere</i> , 2021, 283, 131134. | 8.2 | 14 |
| 13 | Co-Ni based hybrid transition metal oxide nanostructures for cost-effective bi-functional electrocatalytic oxygen and hydrogen evolution reactions. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 391-400. | 7.1 | 33 |
| 14 | Ultrathin VS ₂ nanodiscs for highly stable electro catalytic hydrogen evolution reaction. <i>International Journal of Energy Research</i> , 2020, 44, 811-820. | 4.5 | 35 |
| 15 | Photoelectrochemical analysis of shape modified β - phase In ₂ Se ₃ nanostructures photoelectrodes. <i>Journal of Materials Research and Technology</i> , 2020, 9, 12318-12327. | 5.8 | 14 |
| 16 | Enhancing defect densities in SmEr _x Fe _{1-x} O ₃ nanostructures and tuning their electrical characteristics for photocatalytic and photoresponse functions. <i>Journal of Materials Research and Technology</i> , 2020, 9, 12585-12594. | 5.8 | 9 |
| 17 | Highly efficient overall water splitting performance of gadolinium-erbium-zinc ternary oxide nanostructured electrocatalyst. <i>International Journal of Energy Research</i> , 2020, 44, 6819-6827. | 4.5 | 21 |
| 18 | Effective Modulation of Optical and Photoelectrical Properties of SnS ₂ Hexagonal Nanoflakes via Zn Incorporation. <i>Nanomaterials</i> , 2019, 9, 924. | 4.1 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Electrocatalytic oxygen evolution and photoswitching functions of tungsten-titanium binary oxide nanostructures. <i>Applied Surface Science</i> , 2019, 496, 143652. | 6.1 | 8 |
| 20 | Arrayed CdTe Microdots and Their Enhanced Photodetectivity via Piezo-Phototronic Effect. <i>Nanomaterials</i> , 2019, 9, 178. | 4.1 | 8 |
| 21 | Surface induced charge transfer in $Cu_xIn_{2-x}S_3$ nanostructures and their enhanced photoelectronic and photocatalytic performance. <i>Solar Energy Materials and Solar Cells</i> , 2019, 191, 100-107. | 6.2 | 9 |
| 22 | Evidencing enhanced charge-transfer with superior photocatalytic degradation and photoelectrochemical water splitting in Mg modified few-layered SnS_2 . <i>Journal of Colloid and Interface Science</i> , 2019, 540, 476-485. | 9.4 | 24 |
| 23 | High performance photodiodes based on chemically processed Cu doped SnS_2 nanoflakes. <i>Applied Surface Science</i> , 2018, 455, 446-454. | 6.1 | 33 |
| 24 | Ultrasonic-assisted synthesis of ZnTe nanostructures and their structural, electrochemical and photoelectrical properties. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 414-419. | 8.2 | 20 |
| 25 | Tunable UV-visible absorption of SnS_2 layered quantum dots produced by liquid phase exfoliation. <i>Nanoscale</i> , 2017, 9, 1820-1826. | 5.6 | 47 |
| 26 | MWCNT/CdS nanobelt based hybrid structures and their enhanced photoelectrical performance. <i>Chemical Physics Letters</i> , 2017, 667, 68-73. | 2.6 | 4 |
| 27 | Highly Sensitive Flexible Photodetectors Based on Self-Assembled Tin Monosulfide Nanoflakes with Graphene Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32142-32150. | 8.0 | 44 |
| 28 | Vertically aligned ZnCdS nanowire arrays/P3HT heterojunctions for solar cell applications. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 73-79. | 9.4 | 12 |
| 29 | Enhanced photoelectrical performance of chemically processed SnS_2 nanoplates. <i>RSC Advances</i> , 2016, 6, 99631-99637. | 3.6 | 27 |
| 30 | Electrical property studies on chemically processed polypyrrole/aluminum doped ZnO based hybrid heterostructures. <i>Chemical Physics Letters</i> , 2016, 649, 130-134. | 2.6 | 9 |
| 31 | Fabrication of PEDOT:PSS/ZnO:S based hybrid heterostructures and their photoelectrical characteristics. <i>Materials Letters</i> , 2016, 170, 199-201. | 2.6 | 10 |
| 32 | Electrochemical studies of spherically clustered MoS_2 nanostructures for electrode applications. <i>Journal of Alloys and Compounds</i> , 2015, 634, 104-108. | 5.5 | 77 |
| 33 | Fabrication of polypyrrole/ZnCoO nanohybrid systems for solar cell applications. <i>Dalton Transactions</i> , 2010, 39, 8325. | 3.3 | 20 |