

Mrinmay Das

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|-------------------|-----------------------|----------------|---------------|
| 32 papers | 678 citations | 16 h-index | 25 g-index |
| 34 ext. papers | 846 ext. citations | 3.9 avg, IF | 4 L-index |

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 32 | Improved charge transport properties of graphene incorporated tin oxide based Schottky diode over pure one. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 148, 109706 | 3.9 | 3 |
| 31 | Facile synthesis of CuCr ₂ O ₄ /BiOBr nanocomposite and its photocatalytic activity towards RhB and tetracycline hydrochloride degradation under household visible LED light irradiation. <i>Journal of Alloys and Compounds</i> , 2021 , 867, 157947 | 5.7 | 12 |
| 30 | Multifunctional Porous Coordination Polymers Synthesized by the Variation of Chain Length and Flexibility of Dicarboxylates and Size of the Metal Ions. <i>Crystal Growth and Design</i> , 2021 , 21, 4892-4903 | 3.5 | 1 |
| 29 | Improved device performance of rod like ZnO in a Schottky type photosensor compared to particle like ZnO: Analysis of charge transport. <i>Materials Science in Semiconductor Processing</i> , 2021 , 130, 105799 | 4.3 | 2 |
| 28 | Enhanced charge transport properties of rGO-TiO ₂ based Schottky diode by tuning graphene content. <i>Materials Today: Proceedings</i> , 2019 , 11, 776-781 | 1.4 | 3 |
| 27 | Self-powered room temperature broadband infrared photodetector based on MoSe ₂ /germanium heterojunction with 35 A/W responsivity at 1550 nm. <i>Applied Physics Letters</i> , 2019 , 114, 121101 | 3.4 | 23 |
| 26 | Three-Dimensional-Coordination Polymer of Zn(II)-Carboxylate: Structural Elucidation, Photoelectrical Conductivity, and Biological Activity. <i>ACS Omega</i> , 2019 , 4, 17649-17661 | 3.9 | 14 |
| 25 | Improvement of charge transport for hydrothermally synthesized Cd _{0.8} Fe _{0.2} S over co-precipitation method: A comparative study of structural, optical and magnetic properties. <i>Materials Science in Semiconductor Processing</i> , 2019 , 91, 133-145 | 4.3 | 21 |
| 24 | Redox-active and semi-conducting donor-acceptor conjugated microporous polymers as metal-free ORR catalysts. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5587-5591 | 13 | 47 |
| 23 | Equivalent circuit analysis of Al/rGO-TiO ₂ metal-semiconductor interface via impedance spectroscopy: Graphene induced improvement in carrier mobility and lifetime. <i>Materials Science in Semiconductor Processing</i> , 2018 , 82, 104-111 | 4.3 | 11 |
| 22 | Experimental and theoretical overview on bias dependent Debye relaxation and conduction mechanism of Cd 1-x Zn x S film and its significance in signal transport network. <i>Materials Chemistry and Physics</i> , 2018 , 213, 23-34 | 4.4 | 7 |
| 21 | Bias dependent conduction and relaxation mechanism study of Cu ₅ FeS ₄ film and its significance in signal transport network. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 5014-5024 | 2.1 | 22 |
| 20 | Improving performance of device made up of CuO nanoparticles synthesized by hydrothermal over the reflux method. <i>Applied Surface Science</i> , 2018 , 452, 155-164 | 6.7 | 46 |
| 19 | Impedance Spectroscopy Study of Hydrothermally Synthesized Nano-semiconducting Bornite (Cu ₅ FeS ₄). <i>Materials Today: Proceedings</i> , 2018 , 5, 9948-9957 | 1.4 | 1 |
| 18 | Analysis of interfaces in Bornite (Cu ₅ FeS ₄) fabricated Schottky diode using impedance spectroscopy method and its photosensitive behavior. <i>Materials Research Bulletin</i> , 2018 , 106, 337-345 | 5.1 | 29 |
| 17 | Synthesis of rGO/Zn _{0.8} Cd _{0.2} S via in situ reduction of GO for the realization of a Schottky diode with low barrier height and highly enhanced photoresponsivity. <i>New Journal of Chemistry</i> , 2017 , 41, 5476-5486 | 3.6 | 43 |
| 16 | Network analysis of semiconducting Zn 1-x Cd x S based photosensitive device using impedance spectroscopy and current-voltage measurement. <i>Applied Surface Science</i> , 2017 , 420, 566-578 | 6.7 | 30 |

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|----|---|-----|----|
| 15 | Temperature dependent properties of Al/rGO-ZnCdS Schottky diode and analysis of barrier inhomogeneities by double Gaussian distribution. <i>Materials Letters</i> , 2017 , 204, 184-187 | 3.3 | 14 |
| 14 | Colossal Increase in Electric Current and High Rectification Ratio in a Photoconducting, Self-Cleaning, and Luminescent Schottky Barrier NMOF Diode. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23803-23810 | 3.8 | 20 |
| 13 | . <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4724-4730 | 2.9 | 19 |
| 12 | Growth of hierarchical strontium incorporated cadmium sulphide for possible application in optical and electronic devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 2049-2061 | 2.1 | 15 |
| 11 | Development of a new Schiff-base semiconducting material for thin film active device and analysis of its charge transport mechanism. <i>Journal of Materials Science</i> , 2016 , 51, 9394-9403 | 4.3 | 6 |
| 10 | Temperature dependent performance of Al/ZnCdS Schottky diode and charge transport analysis 2016 , | | 1 |
| 9 | Light induced charge transport property analysis of nanostructured ZnS based Schottky diode. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 6325-6335 | 2.1 | 69 |
| 8 | Development of large area nanostructured silicon-hydrogen alloy material with improved stability for solar cell application by argon dilution method. <i>Electronic Materials Letters</i> , 2016 , 12, 456-461 | 2.9 | 1 |
| 7 | Investigation of Light Induced Carrier Transport Phenomena Through ZnCdS Nanocomposite Based Schottky Diode. <i>Journal of Electronic Materials</i> , 2016 , 45, 4293-4301 | 1.9 | 5 |
| 6 | Investigation of charge transport properties in less defective nanostructured ZnO based Schottky diode. <i>RSC Advances</i> , 2015 , 5, 36560-36567 | 3.7 | 86 |
| 5 | Novel CuFeS ₂ pellet behaves like a portable signal transporting network: studies of immittance. <i>RSC Advances</i> , 2015 , 5, 34682-34689 | 3.7 | 18 |
| 4 | One step hydrothermal synthesis of a rGO/TiO ₂ nanocomposite and its application on a Schottky diode: improvement in device performance and transport properties. <i>RSC Advances</i> , 2015 , 5, 101582-101592 | 3.7 | 52 |
| 3 | Synthesis of ZnO composited TiO ₂ nanoparticle and its application in dye sensitized solar cells: A novel approach in enhancing open-circuit voltage. <i>Materials Letters</i> , 2014 , 126, 214-216 | 3.3 | 7 |
| 2 | Role of zinc oxide nanomorphology on Schottky diode properties. <i>Chemical Physics Letters</i> , 2014 , 610-611, 39-44 | 2.5 | 30 |
| 1 | Study of resonance energy transfer between MEH-PPV and CuFeS ₂ nanoparticle and their application in energy harvesting device. <i>Journal of Alloys and Compounds</i> , 2014 , 613, 364-369 | 5.7 | 20 |