

Sayantana Sil

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34
papers

350
citations

12
h-index

17
g-index

34
ext. papers

472
ext. citations

3.5
avg, IF

3.62
L-index

#	Paper	IF	Citations
34	Synthesis of rGO/n _{0.8} Cd _x 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	2.6	43
33	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
32	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
31	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
30	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
29	Enhancement of Electrical Conductivity due to Structural Distortion from Linear to Nonlinear Dicarboxylato-Bridged Zn(II) 1D-Coordination Polymers. <i>Crystal Growth and Design</i> , 2019 , 19, 2632-2641	3.5	16
28	Lattice-Defect-Induced Piezo Response in Methylammonium-Lead-Iodide Perovskite Based Nanogenerator. <i>ChemistrySelect</i> , 2018 , 3, 5304-5312	1.8	15
27	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
26	Positron Annihilation Spectroscopic Investigation on the Origin of Temperature-Dependent Electrical Response in Methylammonium Lead Iodide Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1745-1751	6.4	14
25	Investigation of Ion-Mediated Charge Transport in Methylammonium Lead Iodide Perovskite. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5515-5522	3.8	13
24	Effect of graphene on improved photosensitivity of MoS ₂ -graphene composite based Schottky diode. <i>Materials Research Bulletin</i> , 2019 , 118, 110507	5.1	13
23	Influence of Axial Linkers on Polymerization in Paddle-Wheel Cu(II) Coordination Polymers for the Application of Optoelectronics Devices. <i>Crystal Growth and Design</i> , 2019 , 19, 6283-6290	3.5	12
22	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
21	Defect induced room temperature ferromagnetism in methylammonium lead iodide perovskite. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126278	2.3	10
20	Photosensitive Schottky barrier diode behavior of a semiconducting Co(III)-Na complex with a compartmental Schiff base ligand. <i>RSC Advances</i> , 2019 , 9, 34710-34719	3.7	10
19	Bias Voltage-Dependent Impedance Spectroscopy Analysis of Hydrothermally Synthesized ZnS Nanoparticles. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 2727-2733	1.6	9
18	Possibility to Use Hydrothermally Synthesized CuFeS ₂ Nanocomposite as an Acceptor in Hybrid Solar Cell. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 2649-2654	1.6	9

17	Designing of Pb(II)-Based Novel Coordination Polymers (CPs): Structural Elucidation and Optoelectronic Application. <i>ACS Omega</i> , 2019 , 4, 19959-19968	3.9	8
16	Elucidation of Inhomogeneous Heterojunction Performance of Al/Cu ₅ FeS ₄ Schottky Diode With a Gaussian Distribution of Barrier Heights. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 2082-2087	2.9	7
15	NMR study of defect-induced magnetism in methylammonium lead iodide perovskite. <i>Physical Review B</i> , 2020 , 101,	3.3	7
14	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
13	Sonochemical synthesis of nanospherical TiO ₂ within graphene oxide nanosheets and its application as a photocatalyst and a Schottky diode. <i>FlatChem</i> , 2020 , 22, 100180	5.1	5
12	Analysis of temperature dependent electrical performance of Al/CuO/ITO Schottky barrier diode and explanation of inhomogeneous barrier heights by double Gaussian distribution. <i>AIP Advances</i> , 2018 , 8, 125104	1.5	5
11	Exploration of temperature dependent dielectric relaxation and correlated barrier hopping (CBH) conduction mechanism of hydrothermally synthesized CuO nanoflakes. <i>Materials Research Express</i> , 2019 , 6, 1050d1	1.7	3
10	Energy-Inexpensive Galvanic Deposition of BiOI on Electrodes and Its Conversion to 3D Porous BiVO ₄ -Based Photoanode. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 18930-18945	3.8	3
9	Investigation of conduction kinetics in Al/CuInSe ₂ Schottky device utilizing impedance spectroscopy (IS) measurement and study of its photosensing behaviour. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 150, 109878	3.9	3
8	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
7	Electronic charge transport phenomena directed smart fabrication of Metal-Semiconductor based electronic junction device by a supramolecular Mn(II)-Metallogel. <i>Journal of Molecular Liquids</i> , 2021 , 338, 116769	6	3
6	Exploring the studies of charge transportation of an aromatic acid based Co(II)-Metallogel scaffold fabricated Schottky device. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 160, 110300	3.9	2
5	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
4	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
3	Investigating the effect of applied bias on methylammonium lead iodide perovskite by electrical and positron annihilation spectroscopic studies. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 465502	3	1
2	Study of A.C. conductivity and dielectric behaviour of hydrothermally synthesised molybdenum disulphide. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 168-181	2.1	0
1	Anthracene-Based Fluorophore and Its Re(I) Complexes: Investigation of Electrical Properties and Schottky Diode Behavior. <i>ACS Omega</i> , 2020 , 5, 29465-29476	3.9	