

List of Publications by Citations

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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.

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	Investigation of charge transport properties in less defective nanostructured ZnO based Schottky diode. <i>RSC Advances</i> , 2015 , 5, 36560-36567	3.7	86
31	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
30	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
29	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
28	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
27	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	2.6	43
26	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
25	Role of zinc oxide nanomorphology on Schottky diode properties. <i>Chemical Physics Letters</i> , 2014 , 610-611, 39-44	2.5	30
24	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
23	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
22	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
21	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
20	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
19	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
18	. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4724-4730	2.9	19
17	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
16	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

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	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
13	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
12	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
11	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
10	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
9	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
8	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
7	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
6	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
5	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
4	Temperature dependent performance of Al/ZnCdS Schottky diode and charge transport analysis 2016 ,		1
3	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
2	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
1	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