

# Kallol Mohanta

## List of Publications by Year in descending order

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43  
papers

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citations

687335

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677123

22  
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43  
docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Influence of Thickness of Active Silicon Nanoparticle Films in Heterojunction Photodetectors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, .	1.8	1
2	Photoactive Cu <sub>2</sub> FeSnS <sub>4</sub> thin films: Influence of stabilizers. <i>Applied Surface Science</i> , 2021, 535, 147600.	6.1	13
3	Development and characterization of photodiode from p-Cu <sub>2</sub> /CdSnS <sub>4</sub> /n-Bi <sub>2</sub> S <sub>3</sub> heterojunction. <i>Materials Research Express</i> , 2020, 7, 015909.	1.6	3
4	Solution phase fabrication of photoactive Cu <sub>2</sub> BaSnS <sub>4</sub> thin films for solar energy harvesting. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 305-311.	2.5	9
5	Multiple negative differential resistance in perovskite (CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> ) decorated electrospun TiO <sub>2</sub> nanofibers. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	4
6	Reversible Light-Responsive Solventless-Liquid Switch: Polarization-Induced Dynamic Surface Ordering&#x2013;Disordering in Liquid-Like Carbon Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4726-4733.	4.6	2
7	Phosphotungstic acid - Jeffamine® hybrid catalyst for one-pot Biginelli reaction starting from benzyl alcohol. <i>Applied Catalysis A: General</i> , 2020, 603, 117734.	4.3	10
8	Novel synthesis of Cu <sub>2</sub> CoSnS <sub>4</sub> -carbon quantum dots nano-composites potential light absorber for hybrid photovoltaics. <i>Nanotechnology</i> , 2020, 31, 235401.	2.6	3
9	Emergence of robust carbon quantum dots as nano-tracer for groundwater studies&#x2013;†. <i>Diamond and Related Materials</i> , 2020, 103, 107701.	3.9	11
10	Highly Stable Aqueous Dispersion of CTAB- Intercalated Reduced Graphene Oxide. <i>Materials Today: Proceedings</i> , 2019, 18, 759-764.	1.8	5
11	Synthesis of highly-soluble push&#x2013;pull perylenemonoimide derivatives by regioselective <i>peri</i>-functionalization for switchable memory applications. <i>Chemical Communications</i> , 2019, 55, 103-106.	4.1	11
12	Electrical bistability and memory switching phenomenon in Cu <sub>2</sub> FeSnS <sub>4</sub> thin films: role of p-n junction. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 1307-1314.	2.5	18
13	Synthesis and photovoltaic application of NIR-emitting perylene-monoimide dyes with large Stokes-shift. <i>RSC Advances</i> , 2019, 9, 30448-30452.	3.6	14
14	Electrical bistability of sol-gel derived Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films. <i>Materials Letters</i> , 2018, 220, 285-288.	2.6	10
15	Photoinduced electrical bistability of sputter deposited CdZnTe thin films. <i>Materials Research Express</i> , 2018, 5, 026412.	1.6	15
16	Light-dependent negative differential resistance in MEH-PPV decorated electrospun TiO <sub>2</sub> mat. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	5
17	Preparation of Highly Conductive Yarns by an Optimized Impregnation Process. <i>Journal of Electronic Materials</i> , 2018, 47, 1970-1978.	2.2	6
18	Solvent Directed Morphogenesis and Electrical Properties of a Peptide&#x2013;Perylenediimide Conjugate. <i>Langmuir</i> , 2018, 34, 8355-8364.	3.5	18

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19	Electrochemical study of UV erosion of Au nanorods by silver nanoclusters (NCs) allows the construction of a NC-sensitized photovoltaic cell. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 1641-1648.	3.1	1
20	Stable Semiconducting Ink Based on a Polypyrrole/Carbonâ€Quantumâ€Dot Aqueous Colloidal Suspension: A Potential Sensor for Volatile Organics Present in Food. <i>ChemistrySelect</i> , 2017, 2, 2139-2143.	1.5	6
21	Conductive nonwetting flexible substrate. <i>Organic Electronics</i> , 2017, 46, 247-252.	2.6	4
22	Study of Electrical Charge Storage in Polymerâ€Carbon Quantum Dot Composite. <i>ChemistrySelect</i> , 2017, 2, 4241-4247.	1.5	20
23	Solution processed Cu <sub>2</sub> CdSnS <sub>4</sub> as a low-cost inorganic hole transport material for polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 161, 157-161.	6.2	19
24	Solvent Assisted Tuning of Morphology of a Peptide-Perylenediimide Conjugate: Helical Fibers to Nano-Rings and their Differential Semiconductivity. <i>Scientific Reports</i> , 2017, 7, 9485.	3.3	38
25	Lead Iodide Microcrystals in Carbon Composite Matrix for Low Power Photodetectors. <i>ChemistrySelect</i> , 2017, 2, 11025-11029.	1.5	11
26	Dwindling the resistance value of PEDOT:PSS â€ coated on fabric yarns. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
27	Polarization induced dynamic photoluminescence in carbon quantum dot-based ionic fluid. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2246-2251.	10.3	18
28	Conducting carbon quantum dots â€ a nascent nanomaterial. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1580-1586.	10.3	40
29	Light-Harvesting Antenna System for Molecular Electronics. <i>IEEE Journal of Photovoltaics</i> , 2014, 4, 1570-1575.	2.5	1
30	Reverse Switching Phenomena in Hybrid Organicâ€Inorganic Thin Film Composite Material. <i>Journal of Physical Chemistry C</i> , 2013, 117, 124-130.	3.1	11
31	Co-occurrence of conductance switching and magnetization: Tuning of electrical bistability of Fe <sub>3</sub> O <sub>4</sub> quantum dots by magnetic field. <i>Chemical Physics Letters</i> , 2010, 492, 281-284.	2.6	6
32	Magnetic-Field-Assisted Layer-by-Layer Electrostatic Assembly of Ferromagnetic Nanoparticles. <i>Langmuir</i> , 2010, 26, 9627-9631.	3.5	35
33	Diode junctions between two ZnO nanoparticles: Mechanism of rectification. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	6
34	Half-wave organic-rectifiers with donor/acceptor assemblies in the molecular scale. <i>Organic Electronics</i> , 2009, 10, 960-964.	2.6	6
35	Diode junctions between two ZnO nanoparticles: current rectification and the role of particle size (and bandgap). <i>Nanotechnology</i> , 2009, 20, 185203.	2.6	12
36	Diode Junctions in Single ZnO Nanowires as Half-Wave Rectifiers. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18047-18052.	3.1	12

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37	Organization of Organic Molecules with Inorganic Nanoparticles: Hybrid Nanodiodes. <i>Advanced Functional Materials</i> , 2008, 18, 687-693.	14.9	23
38	Rectifying Junctions from an Assembly of Two Dissimilar Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3232-3238.	3.1	3
39	pn-Junction Rectifiers Based on p-ZnO and n-ZnO Nanoparticles. <i>Chemistry of Materials</i> , 2007, 19, 3662-3666.	6.7	39
40	Tuning of Molecular Rectification in Donor/Acceptor Assemblies via Supramolecular Structures. <i>Chemistry of Materials</i> , 2006, 18, 3302-3307.	6.7	19
41	Electrical Bistability in Electrostatic Assemblies of CdSe Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18231-18235.	2.6	63
42	A control over accessibility of immobilized enzymes through porous coating layer. <i>Journal of Colloid and Interface Science</i> , 2006, 304, 329-334.	9.4	7
43	Assessment of dihydropyrimidinone-based nanocomposites as multifunctional anti-cancer drug. <i>Materials Advances</i> , 0, , .	5.4	5