

# Joy Mitra

## List of Publications by Year in descending order

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34  
papers

993  
citations

567281

15  
h-index

434195

31  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1459  
citing authors

#	ARTICLE	IF	CITATIONS
1	One-step synthesis of ZnO nanosheets: a blue-white fluorophore. <i>Nanoscale Research Letters</i> , 2012, 7, 470.	5.7	317
2	Zn interstitials and O vacancies responsible for n-type ZnO: what do the emission spectra reveal?. <i>RSC Advances</i> , 2015, 5, 23540-23547.	3.6	146
3	Unusual photoresponse of indium doped ZnO/organic thin film heterojunction. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	62
4	Nonlinear electrical transport through artificial grain-boundary junctions in La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> epitaxial thin films. <i>Physical Review B</i> , 2003, 68, .	3.2	46
5	Temperature dependence of density of states near the Fermi level in a strain-free epitaxial film of the hole-doped manganite La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> . <i>Physical Review B</i> , 2005, 71, .	3.2	39
6	Selective Enhancement in Phonon Scattering Leads to a High Thermoelectric Figure-of-Merit in Graphene Oxide-Encapsulated ZnO Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23771-23786.	8.0	34
7	EB1 regulates attachment of Ska1 with microtubules by forming extended structures on the microtubule lattice. <i>Nature Communications</i> , 2016, 7, 11665.	12.8	31
8	Growth of oriented films of La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> and La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> on SrTiO <sub>3</sub> using chemical solution deposition. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 1548-1553.	2.8	28
9	Non-linear electronic transport in Pt nanowires deposited by focused ion beam. <i>Nanotechnology</i> , 2007, 18, 215203.	2.6	28
10	Epsilon-near-zero response in indium tin oxide thin films: Octave span tuning and IR plasmonics. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	26
11	Depletion of the density of states at the Fermi level in metallic colossal magnetoresistive manganites. <i>Physical Review B</i> , 2003, 68, .	3.2	25
12	The tipâ€“sample water bridge and light emission from scanning tunnelling microscopy. <i>Nanotechnology</i> , 2009, 20, 335202.	2.6	24
13	Infrared emission from tunneling electrons: The end of the rainbow in scanning tunneling microscopy. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	22
14	Spatially resolved photoresponse on individual ZnO nanorods: correlating morphology, defects and conductivity. <i>Scientific Reports</i> , 2016, 6, 28468.	3.3	19
15	Composites of poly( $\epsilon$ -caprolactone) and MoS <sub>2</sub> /S <sub>3</sub> I <sub>6</sub> Nanowires. <i>Polymers for Advanced Technologies</i> , 2012, 23, 149-160.	3.2	17
16	Scanning tunneling microscope light emission: Effect of the strong dc field on junction plasmons. <i>Physical Review B</i> , 2016, 94, .	3.2	14
17	Scanning tunnelling microscope light emission: Finite temperature current noise and over cut-off emission. <i>Scientific Reports</i> , 2017, 7, 3530.	3.3	14
18	Electromagnetic interaction between a metallic nanoparticle and surface in tunnelling proximityâ€“modelling and experiment. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 215101.	2.8	13

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19	Negative photoresponse in ZnO/PEDOT:PSS nanocomposites and photogating effects. <i>Nanoscale Advances</i> , 2019, 1, 2435-2443.	4.6	12
20	Interaction of ZnO nanorods with plasmonic metal nanoparticles and semiconductor quantum dots. <i>Journal of Chemical Physics</i> , 2020, 152, 064704.	3.0	10
21	Enhancement of Photoacoustic Signal Strength with Continuous Wave Optical Pre-Illumination: A Non-Invasive Technique. <i>Sensors</i> , 2021, 21, 1190.	3.8	10
22	Point-contact spectroscopy of single crystal $\text{La}_{0.75}\text{Sr}_{0.25}\text{MnO}_3$ and resistivity due to electron-phonon interaction. <i>Physical Review B</i> , 2002, 65, .	3.2	8
23	Resistive switching in individual ZnO nanorods: delineating the ionic current by photo-stimulation. <i>Nanotechnology</i> , 2018, 29, 105701.	2.6	8
24	An alternative methodology in Schottky diode physics. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	6
25	Tailoring Infrared Absorption and Thermal Emission with Ultrathin Film Interferences in $\epsilon \rightarrow 0$ Media. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	6
26	Photon Emission at Step Edges of Single Crystalline Gold Surfaces Investigated by Scanning Tunnelling Microscopy. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 2119-2123.	1.5	5
27	Thickness induced metal to insulator charge transport and unusual hydrogen response in granular palladium nanofilms. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 27861-27872.	2.8	5
28	Novel routes to electromagnetic enhancement and its characterisation in surface- and tip-enhanced Raman scattering. <i>Faraday Discussions</i> , 2017, 205, 121-148.	3.2	4
29	Very low frequency resistance fluctuations in thin films of $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ with quenched disorder. <i>Physical Review B</i> , 2008, 78, .	3.2	3
30	The electrical characterization and response to hydrogen of Schottky diodes with a resistive metal electrode—rectifying an oversight in Schottky diode investigation. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 125101.	2.8	3
31	Tailoring Infrared Absorption and Thermal Emission with Ultrathin Film Interferences in $\epsilon \rightarrow 0$ Media. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	3
32	Temperature dependence of the gap in the density of states near the Fermi level in a hole doped manganite. <i>Solid State Communications</i> , 2005, 136, 410-415.	1.9	2
33	High sensitivity (1 ppm) hydrogen detection using an unconventional Pd/n-InP Schottky device. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 422201.	1.8	2
34	Controlling the macroscopic electrical properties of reduced graphene oxide by nanoscale writing of electronic channels. <i>Nanotechnology</i> , 2021, 32, 175202.	2.6	1