

Debdutta Ray

List of Publications by Year in descending order

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43
papers

703
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623734

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1039
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient UV-visible photodetector based on single CuO/Cu ₂ O core-shell nanowire. <i>Journal of Alloys and Compounds</i> , 2022, 895, 162546.	5.5	15
2	Space charge limited conduction in anatase and mixed-phase (anatase/rutile) single TiO ₂ nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 136, 115030.	2.7	3
3	Investigation of 4,4'-bis[(N-carbazole) styryl] biphenyl (BSB4) for a pure blue fluorescent OLED with enhanced efficiency nearing the theoretical limit. <i>Semiconductor Science and Technology</i> , 2022, 37, 035006.	2.0	4
4	A review of silver nanowire-based composites for flexible electronic applications. <i>Flexible and Printed Electronics</i> , 2022, 7, 014009.	2.7	42
5	Investigation of nature of excitons in PPDT2FBT and effect of optical interference. <i>Journal of Applied Physics</i> , 2022, 131, 085702.	2.5	1
6	Probing the states around the charge neutrality point of reduced graphene oxide with time-resolved gated Kelvin Probe Force Microscopy. , 2022, , .		0
7	Morphology dependent electrical conduction and breakdown in single TiO ₂ nanotubes. <i>Nanoscale Advances</i> , 2021, 3, 432-445.	4.6	6
8	Defect Mediated Small Molecular Doping of Graphene. <i>Advanced Optical Materials</i> , 2021, 9, 2002046.	7.3	3
9	Spatial Extent of Interaction between Excitons and Polarons in a Bilayer Organic Field-Effect Transistor. <i>ACS Photonics</i> , 2021, 8, 804-812.	6.6	3
10	A systematic approach to reduce non idealities in pentacene bottom-contact bottom-gate transistors. <i>Thin Solid Films</i> , 2021, 721, 138542.	1.8	2
11	Anomalous diameter dependent electrical transport in individual CuO nanowire. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 255104.	2.8	10
12	Silver Nanowire-Based Printable Electrothermochromic Ink for Flexible Touch-Display Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34550-34560.	8.0	27
13	Influence of film morphology and crystallinity on charge carrier concentration-dependent hole mobility in hexamethyldisilazane treated Pentacene bottom contact devices. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 445105.	2.8	1
14	A study on the effect of film crystallinity and morphology on charge carrier concentration-dependent hole mobility in pentacene thin-film transistors: advantages of high deposition rate. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 015104.	2.8	5
15	Photoresponse of a printed transparent silver nanowire-zinc oxide nanocomposite. <i>Flexible and Printed Electronics</i> , 2021, 6, 045004.	2.7	13
16	Intra-device gating effect in graphene electrode-based organic diodes. <i>Organic Electronics</i> , 2021, , 106399.	2.6	2
17	Enhancing the sensitivity of point-of-use electrochemical microfluidic sensors by ion concentration polarisation – A case study on arsenic. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127340.	7.8	31
18	Determination of the width of the density of states of the highest occupied molecular orbital in pentacene. <i>Thin Solid Films</i> , 2020, 695, 137765.	1.8	3

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19	High response organic UV-blue photodetector with low operating voltage using chemical vapor deposited poly(p-phenylenevinylene). <i>Organic Electronics</i> , 2020, 87, 105975.	2.6	6
20	Enhancing the efficiency of red TADF OLED by optimizing the guest-host matrix and charge balance engineering. <i>Synthetic Metals</i> , 2020, 270, 116599.	3.9	8
21	Printable Silver Nanowire and PEDOT:PSS Nanocomposite Ink for Flexible Transparent Conducting Applications. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1000-1010.	4.3	65
22	Organic field effect transistors (OFETs) of poly(p-phenylenevinylene) fabricated by chemical vapor deposition (CVD) with improved hole mobility. <i>Synthetic Metals</i> , 2019, 255, 116108.	3.9	6
23	Direct writing of silver nanowire-based ink for flexible transparent capacitive touch pad. <i>Flexible and Printed Electronics</i> , 2019, 4, 045001.	2.7	30
24	Study of exciton-polaron interaction in pentacene field effect transistors using high sensitive photocurrent measurements. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	7
25	Optical polarization anisotropy induced by molecular alignment in pentacene films confined in micron sized grooves etched in SiO ₂ substrate. <i>Materials Research Express</i> , 2019, 6, 046402.	1.6	1
26	Exciton Diffusion Length and Charge Extraction Yield in Organic Bilayer Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604424.	21.0	36
27	Dual Probe Sensors Using Atomically Precise Noble Metal Clusters. <i>ACS Omega</i> , 2017, 2, 7576-7583.	3.5	9
28	Optical Properties of CVD Grown PPV Thin Film Deposited on Glass Substrate. , 2016, , .		0
29	Effects of Morphology and Crystallinity on the Optical Properties of Pentacene Thin Films. , 2016, , .		0
30	Determining doping efficiency and mobility from conductivity and Seebeck data of n-doped C ₆₀ layers. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1877-1883.	1.5	12
31	Density of states determination in organic donor-acceptor blend layers enabled by molecular doping. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	15
32	Highly efficient p-dopants in amorphous hosts. <i>Organic Electronics</i> , 2014, 15, 365-371.	2.6	35
33	<i>In-situ</i> conductivity and Seebeck measurements of highly efficient n-dopants in fullerene C ₆₀ . <i>Applied Physics Letters</i> , 2012, 100, .	3.3	112
34	A comparison of two air-stable molecular n-dopants for C ₆₀ . <i>Organic Electronics</i> , 2012, 13, 3319-3325.	2.6	28
35	Quantitative estimation of electronic quality of zinc phthalocyanine thin films. <i>Physical Review B</i> , 2011, 84, .	3.2	10
36	Detection of trap charge in small molecular organic bulk heterojunction solar cells. <i>Physical Review B</i> , 2010, 82, .	3.2	25

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37	Measurement of deep states in hole doped organic semiconductors. Journal of Applied Physics, 2008, 103, .	2.5	18
38	High response organic visible-blind ultraviolet detector. Applied Physics Letters, 2007, 91, .	3.3	66
39	Study of electrical transport of hole-doped TPD. , 2007, , .		2
40	Spontaneous and field induced photocarrier generation in TPD and its blend. , 2007, , .		0
41	Bulk and contact-sensitized photocarrier generation in single layer organic devices. Journal of Applied Physics, 2006, 100, 113727.	2.5	15
42	Photoconduction in Alq3. Journal of Applied Physics, 2005, 98, 123704.	2.5	11
43	Measurement of built-in voltage of organic semiconductor devices. Synthetic Metals, 2005, 155, 349-351.	3.9	15