

Debdutta Ray

List of Publications by Year in descending order

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43
papers

703
citations

623734

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552781

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43
all docs

43
docs citations

43
times ranked

1039
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In-situ</i> conductivity and Seebeck measurements of highly efficient n-dopants in fullerene C60. Applied Physics Letters, 2012, 100, .	3.3	112
2	High response organic visible-blind ultraviolet detector. Applied Physics Letters, 2007, 91, .	3.3	66
3	Printable Silver Nanowire and PEDOT:PSS Nanocomposite Ink for Flexible Transparent Conducting Applications. ACS Applied Electronic Materials, 2020, 2, 1000-1010.	4.3	65
4	A review of silver nanowire-based composites for flexible electronic applications. Flexible and Printed Electronics, 2022, 7, 014009.	2.7	42
5	Exciton Diffusion Length and Charge Extraction Yield in Organic Bilayer Solar Cells. Advanced Materials, 2017, 29, 1604424.	21.0	36
6	Highly efficient p-dopants in amorphous hosts. Organic Electronics, 2014, 15, 365-371.	2.6	35
7	Enhancing the sensitivity of point-of-use electrochemical microfluidic sensors by ion concentration polarisation – A case study on arsenic. Sensors and Actuators B: Chemical, 2020, 304, 127340.	7.8	31
8	Direct writing of silver nanowire-based ink for flexible transparent capacitive touch pad. Flexible and Printed Electronics, 2019, 4, 045001.	2.7	30
9	A comparison of two air-stable molecular n-dopants for C60. Organic Electronics, 2012, 13, 3319-3325.	2.6	28
10	Silver Nanowire-Based Printable Electrothermochromic Ink for Flexible Touch-Display Applications. ACS Applied Materials & Interfaces, 2021, 13, 34550-34560.	8.0	27
11	Detection of trap charge in small molecular organic bulk heterojunction solar cells. Physical Review B, 2010, 82, .	3.2	25
12	Measurement of deep states in hole doped organic semiconductors. Journal of Applied Physics, 2008, 103, .	2.5	18
13	Measurement of built-in voltage of organic semiconductor devices. Synthetic Metals, 2005, 155, 349-351.	3.9	15
14	Bulk and contact-sensitized photocarrier generation in single layer organic devices. Journal of Applied Physics, 2006, 100, 113727.	2.5	15
15	Density of states determination in organic donor-acceptor blend layers enabled by molecular doping. Journal of Applied Physics, 2015, 117, .	2.5	15
16	Efficient UV-visible photodetector based on single CuO/Cu2O core-shell nanowire. Journal of Alloys and Compounds, 2022, 895, 162546.	5.5	15
17	Photoresponse of a printed transparent silver nanowire-zinc oxide nanocomposite. Flexible and Printed Electronics, 2021, 6, 045004.	2.7	13
18	Determining doping efficiency and mobility from conductivity and Seebeck data of n-doped C ₆₀ layers. Physica Status Solidi (B): Basic Research, 2015, 252, 1877-1883.	1.5	12

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19	Photoconduction in Alq ₃ . Journal of Applied Physics, 2005, 98, 123704.	2.5	11
20	Quantitative estimation of electronic quality of zinc phthalocyanine thin films. Physical Review B, 2011, 84, .	3.2	10
21	Anomalous diameter dependent electrical transport in individual CuO nanowire. Journal Physics D: Applied Physics, 2021, 54, 255104.	2.8	10
22	Dual Probe Sensors Using Atomically Precise Noble Metal Clusters. ACS Omega, 2017, 2, 7576-7583.	3.5	9
23	Enhancing the efficiency of red TADF OLED by optimizing the guest-host matrix and charge balance engineering. Synthetic Metals, 2020, 270, 116599.	3.9	8
24	Study of exciton-polaron interaction in pentacene field effect transistors using high sensitive photocurrent measurements. Journal of Applied Physics, 2019, 126, .	2.5	7
25	Organic field effect transistors (OFETs) of poly(p-phenylenevinylene) fabricated by chemical vapor deposition (CVD) with improved hole mobility. Synthetic Metals, 2019, 255, 116108.	3.9	6
26	High response organic UV-blue photodetector with low operating voltage using chemical vapor deposited poly(p-phenylenevinylene). Organic Electronics, 2020, 87, 105975.	2.6	6
27	Morphology dependent electrical conduction and breakdown in single TiO ₂ nanotubes. Nanoscale Advances, 2021, 3, 432-445.	4.6	6
28	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. Journal Physics D: Applied Physics, 2021, 54, 015104.	2.8	5
29	Investigation of 4,4'-bis[(N-carbazole) styryl] biphenyl (BSB4) for a pure blue fluorescent OLED with enhanced efficiency nearing the theoretical limit. Semiconductor Science and Technology, 2022, 37, 035006.	2.0	4
30	Determination of the width of the density of states of the highest occupied molecular orbital in pentacene. Thin Solid Films, 2020, 695, 137765.	1.8	3
31	Defect Mediated Small Molecular Doping of Graphene. Advanced Optical Materials, 2021, 9, 2002046.	7.3	3
32	Spatial Extent of Interaction between Excitons and Polarons in a Bilayer Organic Field-Effect Transistor. ACS Photonics, 2021, 8, 804-812.	6.6	3
33	Space charge limited conduction in anatase and mixed-phase (anatase/rutile) single TiO ₂ nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 136, 115030.	2.7	3
34	Study of electrical transport of hole-doped TPD. , 2007, , .		2
35	A systematic approach to reduce non idealities in pentacene bottom-contact bottom-gate transistors. Thin Solid Films, 2021, 721, 138542.	1.8	2
36	Intra-device gating effect in graphene electrode-based organic diodes. Organic Electronics, 2021, , 106399.	2.6	2

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37	Optical polarization anisotropy induced by molecular alignment in pentacene films confined in micron sized grooves etched in SiO ₂ substrate. Materials Research Express, 2019, 6, 046402.	1.6	1
38	Influence of film morphology and crystallinity on charge carrier concentration-dependent hole mobility in hexamethyldisilazane treated Pentacene bottom contact devices. Journal Physics D: Applied Physics, 2021, 54, 445105.	2.8	1
39	Investigation of nature of excitons in PPDT2FBT and effect of optical interference. Journal of Applied Physics, 2022, 131, 085702.	2.5	1
40	Spontaneous and field induced photocarrier generation in TPD and its blend. , 2007, , .		0
41	Optical Properties of CVD Grown PPV Thin Film Deposited on Glass Substrate. , 2016, , .		0
42	Effects of Morphology and Crystallinity on the Optical Properties of Pentacene Thin Films. , 2016, , .		0
43	Probing the states around the charge neutrality point of reduced graphene oxide with time-resolved gated Kelvin Probe Force Microscopy. , 2022, , .		0