

Asim K Ray

List of Publications by Year in descending order

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56
papers

780
citations

567281

15
h-index

552781

26
g-index

60
all docs

60
docs citations

60
times ranked

910
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric measurements on stearic acid/eicosylamine alternate layer Langmuir-Blodgett films incorporating CdS nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 8798-8806.	2.2	1
2	Flexible zinc oxide photoelectrode for photo electrochemical energy conversion. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 15386-15392.	2.2	6
3	Channel length-dependent characterisations of organic thin-film transistors with solution processable gadolinium phthalocyanine derivatives. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 265-273.	2.2	3
4	Surface Plasmon Resonance for Human Bone Marrow Cells Imaging. <i>IEEE Sensors Journal</i> , 2020, 20, 11625-11631.	4.7	2
5	Effect of Cd ²⁺ ions on AC conductivity of stearic acid metal-insulator-semiconductor diode. <i>AIP Conference Proceedings</i> , 2020, .	0.4	0
6	Electron Charge Transport in Non-Peripherally Substituted Copper Phthalocyanine. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 065003.	1.8	3
7	Electron beam induced synthesis of Ru-rGO and its super capacitive behavior. <i>2D Materials</i> , 2019, 6, 045030.	4.4	10
8	Evolutionary Computation for Parameter Extraction of Organic Thin-Film Transistors Using Newly Synthesized Liquid Crystalline Nickel Phthalocyanine. <i>Micromachines</i> , 2019, 10, 683.	2.9	3
9	Steady state charge conduction through solution processed liquid crystalline lanthanide bisphthalocyanine films. <i>Journal of Porphyrins and Phthalocyanines</i> , 2019, 23, 1603-1615.	0.8	1
10	Organic thin film transistors using a liquid crystalline palladium phthalocyanine as active layer. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	10
11	Hysteresis-free DC conduction in zinc oxide films with a conducting polymer counter electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 2797-2805.	2.2	7
12	Solution processed copper tetrabenzotriazaporphyrin films for organic field effect transistors. <i>Journal of Applied Physics</i> , 2018, 124, 235501.	2.5	4
13	Synthesis and dielectric characterisation of triiodide perovskite methylammonium lead iodide for energy applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18693-18698.	2.2	2
14	Effect of plasma power on reduction of printable graphene oxide thin films on flexible substrates. <i>Materials Research Express</i> , 2018, 5, 056405.	1.6	10
15	Newly synthesised gadolinium bis-phthalocyanine sandwich complex: ambipolar organic semiconductor. <i>Semiconductor Science and Technology</i> , 2018, 33, 095010.	2.0	8
16	Charge transport in lead sulfide quantum dots/phthalocyanines hybrid nanocomposites. <i>Organic Electronics</i> , 2017, 44, 132-143.	2.6	13
17	AC Impedance Studies on Metal/Nanoporous Silicon/p-Silicon Structures. <i>Journal of Electronic Materials</i> , 2017, 46, 2106-2111.	2.2	5
18	Compact Modeling of Organic Thin-Film Transistors with Solution Processed Octadecyl Substituted Tetrabenzotriazaporphyrin as an Active Layer. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 2629-2634.	3.0	12

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19	Graphene films printable on flexible substrates for sensor applications. <i>2D Materials</i> , 2017, 4, 015036.	4.4	21
20	Organic Materials for Chemical Sensing. <i>Springer Handbooks</i> , 2017, , 1-1.	0.6	4
21	Dielectric Measurements on Solâ€“Gel Derived Titania Films. <i>Journal of Electronic Materials</i> , 2017, 46, 6646-6652.	2.2	2
22	Thin Films. <i>Springer Handbooks</i> , 2017, , 1-1.	0.6	5
23	A Tetrabenzotriazaporphyrin Based Organic Thin Film Transistor: Comparison with a Device of the Phthalocyanine Analogue. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, P3086-P3090.	1.8	11
24	Study of dielectric relaxation processes in printable zinc oxide films on transparent substrates. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 7109-7116.	2.2	1
25	High temperature optical absorption investigation into the electronic transitions in solâ€“gel derived C12A7 thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 4691-4697.	2.2	7
26	Plasma treated graphene oxide films: structural and electrical studies. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 4810-4815.	2.2	15
27	Extraction of the optical parameters of solâ€“gel processed 12CaO·7Al ₂ O ₃ thin film for optoelectronic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 7837-7843.	2.2	2
28	Kinetic study of crystallisation of solâ€“gel derived calciaâ€“alumina binary compounds. <i>Journal of Alloys and Compounds</i> , 2014, 582, 277-282.	5.5	9
29	Vibrational spectroscopic studies on crystallisation of solâ€“gel derived thin films of calciaâ€“alumina binary compound. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 2261-2266.	2.2	4
30	Effects of annealing on device parameters of organic field effect transistors using liquid-crystalline tetrasubstituted zinc phthalocyanine. <i>Europhysics Letters</i> , 2014, 106, 58002.	2.0	6
31	Low cost zinc oxide for memristors with high Onâ€“Off ratios. <i>Materials Letters</i> , 2014, 130, 40-42.	2.6	36
32	Ambipolar charge transport in non-peripherally substituted octahexyl zinc phthalocyanine. <i>Europhysics Letters</i> , 2013, 104, 57005.	2.0	8
33	Octaoctyl-Substituted Lutetium Bisphthalocyanine for NADH Biosensing. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15033-15040.	2.6	9
34	A liquid crystalline copper phthalocyanine derivative for high performance organic thin film transistors. <i>Journal of Materials Chemistry</i> , 2012, 22, 19179.	6.7	43
35	<i>In situ</i> chemichromic studies of interactions between a lutetium bis-octaalkyl-substituted phthalocyanine and selected biological cofactors. <i>Journal of the Royal Society Interface</i> , 2012, 9, 183-189.	3.4	11
36	Morphological and Elemental Studies on Titania Thin Films Electrodeposited at Different Bath Temperatures. <i>Journal of the Electrochemical Society</i> , 2011, 159, E30-E36.	2.9	1

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37	High-mobility solution-processed copper phthalocyanine-based organic field-effect transistors. Science and Technology of Advanced Materials, 2011, 12, 025001.	6.1	31
38	Formation of Hybrid Inorganic/Organic Nanocomposites. Journal of Electronic Materials, 2010, 39, 145-148.	2.2	2
39	Optical absorption in solution processed thin films of calcium alumina binary compounds. Journal of Sol-Gel Science and Technology, 2010, 55, 317-321.	2.4	6
40	Solution processable lutetium phthalocyanine organic field-effect transistors. Organic Electronics, 2010, 11, 434-438.	2.6	36
41	Solution processed tetrasubstituted zinc phthalocyanine as an active layer in organic field effect transistors. Journal of Applied Physics, 2010, 107, .	2.5	16
42	Surface plasmon resonance imaging for medical and biosensing. , 2009, , .		2
43	Memory effects in thin film organic transistor characteristics. Journal Physics D: Applied Physics, 2009, 42, 125103.	2.8	10
44	Surface plasmon resonance imaging for biosensing. IET Nanobiotechnology, 2009, 3, 71.	3.8	24
45	Novel Binary Calcium Alumina Systems for Device Applications. Science of Advanced Materials, 2009, 1, 107-120.	0.7	6
46	Preparation and crystallization of sol-gel C12A7 thin films. Journal Physics D: Applied Physics, 2008, 41, 035404.	2.8	17
47	Viscoelastic property and hydration level variations of proteins multilayer adsorbed on liquid crystal phthalocyanine thin film. Materials Research Society Symposia Proceedings, 2008, 1093, 40401.	0.1	0
48	A simply constructed lead phthalocyanine memory diode. Journal of Applied Physics, 2008, 103, 074507.	2.5	20
49	Sputtered rutile stoichiometric TiO ₂ nanocrystalline films. Journal of Materials Science: Materials in Electronics, 2006, 17, 851-855.	2.2	8
50	Sol-gel derived nanocrystalline titania thin films on silicon. Semiconductor Science and Technology, 2005, 20, 788-792.	2.0	26
51	Optical dispersion in spun nanocrystalline titania thin films. Semiconductor Science and Technology, 2004, 19, 198-202.	2.0	40
52	Structural and electrical studies on sol-gel derived spun TiO ₂ thin films. Journal Physics D: Applied Physics, 2003, 36, 1120-1125.	2.8	39
53	High density, non-porous anatase titania thin films for device applications. Journal Physics D: Applied Physics, 2000, 33, 2683-2686.	2.8	57
54	Transport mechanisms in porous silicon. Journal of Applied Physics, 1998, 84, 3232-3235.	2.5	22

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55	On the analysis of experimental data for optical absorption in non-crystalline materials. Journal Physics D: Applied Physics, 1990, 23, 458-459.	2.8	23
56	Invited paper A critical review of the observed electrical properties of MIM devices showing VCNR. International Journal of Electronics, 1984, 57, 1-77.	1.4	94