

Supravat Karak

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

609
citations

1040056

9
h-index

940533

16
g-index

21
all docs

21
docs citations

21
times ranked

1393
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the influences of In-situ annealing and substrate vibration on the charge carrier dynamics of ultrasonic spray-coated polymer solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 15180-15190.	2.2	2
2	Defect mediated improved charge carrier dynamics in hybrid bulk-heterojunction solar cell induced by phase pure iron pyrite nanocubes. <i>Nanotechnology</i> , 2021, 32, 265401.	2.6	4
3	Understanding the Correlation Between Temperature Dependent Performance and Trap Distribution for Nickel Oxide Based Inverted Perovskite Solar Cells. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 3907-3913.	3.0	10
4	Defects in Phase-Pure Iron Pyrite Nanocubes: Implications for Photovoltaics. <i>IEEE Journal of Photovoltaics</i> , 2021, , 1-7.	2.5	1
5	Performance improvement of ultrasonic spray deposited polymer solar cell through droplet boundary reduction assisted by acoustic substrate vibration. <i>Semiconductor Science and Technology</i> , 2021, 36, 015002.	2.0	7
6	Structural and optical properties of exfoliated graphene-like carbon nitride into nanosheets and quantum dots. <i>Materials Characterization</i> , 2020, 169, 110646.	4.4	9
7	Investigation on the morphological and optical properties of Selenium based thin films for photovoltaic application. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
8	Effect of <i>In Situ</i> Annealing on Phase Segregation And Optoelectronic Properties of Ultrasonic-Spray Deposited Polymer Blend Films. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1727-1734.	2.5	7
9	Graphitic carbon nitride quantum dots (g-C ₃ N ₄) to improve photovoltaic performance of polymer solar cell by combining Förster resonance energy transfer (FRET) and morphological effects. <i>Nano Express</i> , 2020, 1, 010057.	2.4	19
10	2-D graphitic carbon nitride nanostructures for optoelectronic application. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
11	Amino-fulleropyrrolidines as electrochromic additives to enhance organic photovoltaics. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2143-2147.	4.9	9
12	A perovskite based plug and play AC photovoltaic device with ionic liquid induced transient opto-electronic conversion. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9019-9028.	10.3	12
13	Raising efficiency of organic solar cells with electrochromic additives. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	28
14	Kinetics of Ion Transport in Perovskite Active Layers and Its Implications for Active Layer Stability. <i>Journal of the American Chemical Society</i> , 2015, 137, 13130-13137.	13.7	394
15	Photovoltaic Effect at the Schottky Interface with Organic Single Crystal Rubrene. <i>Advanced Functional Materials</i> , 2014, 24, 1039-1046.	14.9	41
16	Rubrene: Photovoltaic Effect at the Schottky Interface with Organic Single Crystal Rubrene (Adv.) <i>Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50</i>	14.9	0
17	Bulk Charge Carrier Transport in Push-Pull Type Organic Semiconductor. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20904-20912.	8.0	22
18	Crystallinity and Morphology Effects on a Solvent-Processed Solar Cell Using a Triarylamine-Substituted Squaraine. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11376-11384.	8.0	17

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19	Solution-Processed Photovoltaics with a 3,6-Bis(diarylamino)fluoren-9-ylidene Malononitrile. ACS Applied Materials & Interfaces, 2014, 6, 16476-16480.	8.0	17
20	The effects of different atmospheric conditions on device stability of organic small-molecule solar cells under constant illumination. Semiconductor Science and Technology, 2011, 26, 095020.	2.0	6
21	Understanding the Linear and Nonlinear Optical Responses of Few-Layer Exfoliated MoS2 and WS2 Nanoflakes: Experimental and Simulation Studies. Nanotechnology, 0, , .	2.6	4