Vishal Bharti

List of Publications by Year
in descending order

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Version: 2024-02-01

21	883	623734	752698
papers	citations	14 h-index	20 g-index

21	21	21	1764
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polymerâ€“Polymer FÃ¶rster Resonance Energy Transfer Significantly Boosts the Power Conversion Efficiency of Bulkâ€Heterojunction Solar Cells. Advanced Materials, 2015, 27, 4398-4404.	21.0	201
2	Potential Substitutes for Replacement of Lead in Perovskite Solar Cells: A Review. Global Challenges, 2019, 3, 1900050.	3.6	115
3	Diacetylene bridged triphenylamines as hole transport materials for solid state dye sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 6949.	10.3	105
4	Device simulation of FASnI3 based perovskite solar cell with Zn(O0.3, S0.7) as electron transport layer using SCAPS-1D. Optical Materials, 2021, 119, 111362.	3.6	79
5	Ruthenium based metallopolymer grafted reduced graphene oxide as a new hybrid solar light harvester in polymer solar cells. Scientific Reports, 2017, 7, 43133.	3.3	68
6	Improved All-Polymer Solar Cell Performance of n-Type Naphthalene Diimideâ€“Bithiophene P(NDI2OD-T2) Copolymer by Incorporation of Perylene Diimide as Coacceptor. Macromolecules, 2016, 49, 8113-8125.	4.8	63
7	Hole-transport materials with greatly-differing redox potentials give efficient TiO2â€“[CH3NH3][PbX3] perovskite solar cells. Physical Chemistry Chemical Physics, 2015, 17, 2335-2338.	2.8	57
8	Electrochemical detection of ammonia solution using tin oxide nanoparticles synthesized via solâ€“gel route. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	29
9	Photophysical and charge transport properties of pyrazolines. RSC Advances, 2016, 6, 786-795.	3.6	22
10	Computational approach to explore suitable charge transport layers for all inorganic CsGeI3 perovskite solar cells. Optical Materials, 2022, 128, 112403.	3.6	22
11	Improved hole mobility and suppressed trap density in polymer-polymer dual donor based highly efficient organic solar cells. Applied Physics Letters, 2016, 108, .	3.3	21
12	A green approach for direct growth of CdS nanoparticles network in poly(3-hexylthiophene-2,5-diyl) polymer film for hybrid photovoltaic. Materials Letters, 2012, 89, 195-197.	2.6	20
13	Spray coated europium doped PEDOT:PSS anode buffer layer for organic solar cell: The role of electric field during deposition. Organic Electronics, 2019, 66, 242-248.	2.6	19
14	CoSP approach for the synthesis of blue MoO3 nanoparticles for application as hole transport layer (HTL) in organic solar cells. Solar Energy, 2018, 162, 78-83.	6.1	15
15	Revealing the correlation between charge carrier recombination and extraction in an organic solar cell under varying illumination intensity. Physical Chemistry Chemical Physics, 2017, 19, 26169-26178.	2.8	13
16	Plasma modification of poly(2-heptadecyl-4-vinylthieno[3,4-d]thiazole) low bandgap polymer and its application in solar cells. Physical Chemistry Chemical Physics, 2014, 16, 27043-27052.	2.8	12
17	Effect of Pd concentration on the structural, morphological and photodiode properties of TiO2 nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 65-74.	2.2	12
18	Charge Transport Studies in Pure and CdS Doped PBDTTPD:CdS Nanocomposite for Solar Cell Application. Environmental Science and Engineering, 2014, , 323-325.	0.2	6

#	Article	IF	Citations
19	In-Situ Growth of CdS Nanorods in PTB7 by Solvothermal Process for Hybrid Organic Inorganic Solar Cell applications. Environmental Science and Engineering, 2014, , 331-333.	0.2	3
20	Sustainable Organic Polymer Solar Cells Using TiO2 Derived From Automobile Paint Sludge. Environmental Science and Engineering, 2014, , 395-397.	0.2	1
21	Realization of highly efficient polymer solar cell based on PBDTTT-EFT and [71]PCBM. AIP Conference Proceedings, 2018, , .	0.4	0