Dinesh Pathak

List of Publications by Year
in descending order

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49 papers	914 citations	471509 17 h-index	477307 29 g-index
49 all docs	49 docs citations	49 times ranked	1198 citing authors

#	Article	IF	Citations
1	Organic materials for photovoltaic applications: Review and mechanism. Synthetic Metals, 2014, 190, 20-26.	3.9	139
2	Twin-Tail Surfactant Peculiarity in Superficial Fabrication of Semiconductor Quantum Dots: Toward Structural, Optical, and Electrical Features. Journal of Physical Chemistry C, 2015, 119, 5062-5073.	3.1	49
3	Multifractal analysis of dropâ€casted copper (II) tetrasulfophthalocyanine film surfaces on the indium tin oxide substrates. Surface and Interface Analysis, 2014, 46, 393-398.	1.8	46
4	Multifractal characterization of water soluble copper phthalocyanine based films surfaces. Electronic Materials Letters, 2014, 10, 719-730.	2.2	46
5	Photovoltaic performance of AgInSe2-conjugated polymer hybrid system bulk heterojunction solar cells. Synthetic Metals, 2015, 199, 87-92.	3.9	46
6	Effect of nano-size fumed silica on ionic conductivity of PVdF-HFP-based plasticized nano-composite polymer electrolytes. Ionics, 2016, 22, 1865-1872.	2.4	43
7	Ionic conductivity, FTIR and thermal studies of nano-composite plasticized proton conducting polymer electrolytes. Solid State Ionics, 2017, 305, 57-62.	2.7	43
8	AgInSe2.PCBM.P3HT inorganic organic blends for hybrid bulk heterojunction photovoltaics. Synthetic Metals, 2015, 200, 102-108.	3.9	35
9	Synthesis, characterization and photovoltaic applications of noble metalâ€”doped ZnS quantum dots. Chinese Journal of Physics, 2019, 58, 348-362.	3.9	35
10	Response surface methodology based analysis of the impact of nanoclay addition on the wear resistance of polypropylene. EPJ Applied Physics, 2019, 86, 10401.	0.7	29
11	Influence of the dopant concentration on structural, optical and photovoltaic properties of Cu-doped ZnS nanocrystals based bulk heterojunction hybrid solar cells. EPJ Applied Physics, 2017, 78, 34811.	0.7	25
12	Structural, electrical and optical properties of transparent Zn1â˜'Mg O nanocomposite thin films. Thin Solid Films, 2009, 518, 1394-1398.	1.8	23
13	Effect of substrate temperature on the structural, optical and electrical properties of Silver Indium selenide films prepared by laser ablation. Journal of the Korean Physical Society, 2010, 56, 836-841.	0.7	23
14	Characterization of mechanically synthesized AgInSe₂ nanostructures. Canadian Journal of Physics, 2014, 92, 789-796.	1.1	22
15	Structural, optical and photovoltaic properties of P3HT and Mn-doped CdS quantum dots based bulk hetrojunction hybrid layers. Optical Materials, 2018, 78, 132-141.	3.6	21
16	Fabrication of Densely Distributed Silver Indium Selenide Nanorods by Ag+ Ion Irradiation. Journal of the Korean Physical Society, 2010, 57, 474-479.	0.7	19
17	Characterization of AgInSe₂Films Deposited by Hot-Wall Vacuum Evaporation Method. Materials and Manufacturing Processes, 2010, 25, 1012-1017.	4.7	17
18	Synthesis, characterization and photovoltaic performance of Mn-doped ZnS quantum dots- P3HT hybrid bulk heterojunction solar cells. Optical Materials, 2017, 73, 754-762.	3.6	17

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19	Structural, optical, electrochemical and photovoltaic studies of spider web like Silver Indium Diselenide Quantum dots synthesized by ligand mediated colloidal sol-gel approach. Optical Materials, 2017, 73, 70-76.	3.6	17
20	Growth of AgInSe2 on Si(100) substrate by thermal evaporation technique. Applied Physics A: Materials Science and Processing, 2009, 95, 843-847.	2.3	16
21	New tailored organic semiconductors thin films for optoelectronic applications. EPJ Applied Physics, 2021, 95, 10201.	0.7	16
22	TiO₂ nanofibers fabricated by electrospinning technique and degradation of MO dye under UV light. Zeitschrift Fur Kristallographie - Crystalline Materials, 2021, 236, 239-250.	0.8	16
23	Surface Roughness Characterization of ZnO: TiO₂-Organic Blended Solar Cells Layers by Atomic Force Microscopy and Fractal Analysis. International Journal of Nanoscience, 2014, 13, 1450020.	0.7	14
24	Characterization of PVdF-HFP-based nanocomposite plasticized polymer electrolytes. Surface Innovations, 2017, 5, 251-256.	2.3	13
25	Metal oxides for energy applications. , 2020, , 471-504.		13
26	CRYSTALLINE AgInSe₂ FILMS ON GLASS BY LASER ABLATION. International Journal of Modern Physics B, 2010, 24, 5379-5385.	2.0	12
27	Array of bis-quaternary ammonium surfactant tailored Cu_(2â^'x)Te quantum dots with amended functional assets. RSC Advances, 2016, 6, 13981-13990.	3.6	11
28	Electrical characterization of nano-composite polymer gel electrolytes containing NH4BF4 and SiO2: role of donor number of solvent and fumed silica. Ionics, 2017, 23, 2761-2766.	2.4	11
29	FTIR, thermal and ionic conductivity studies of nanocomposite polymer electrolytes. Surface Innovations, 2019, 7, 51-58.	2.3	11
30	Experimental assessment of the utilization of a novel interpenetrating polymer network in different processes in the agricultural sector. Journal of Applied Polymer Science, 2019, 136, 47739.	2.6	11
31	T-Shaped Indan-1,3-dione derivatives as promising electron donors for bulk heterojunction small molecule solar cell. Optical Materials, 2017, 69, 312-317.	3.6	10
32	GROWTH OF AgInSe₂ ON Si(100) SUBSTRATE BY PULSE LASER ABLATION. Surface Review and Letters, 2009, 16, 917-923.	1.1	8
33	Well-defined quantum dots and broadening of optical phonon line from hydrothermal method. RSC Advances, 2016, 6, 102010-102014.	3.6	8
34	Low-cost deposition of cupric oxide thin films for optoelectronic applications. EPJ Applied Physics, 2018, 84, 20301.	0.7	6
35	Merocyanine-540 grafted on ZnS and CdS nanocrystals- an approach for enhancing the efficiency of inorganic- organic hybrid solar cell. Optical Materials, 2018, 83, 165-175.	3.6	6
36	Structural, optical and photovoltaic properties of P3HT and metal doped TiO2 quantum dots based bulk heterojunction layers. Optical Materials, 2019, 91, 376-385.	3.6	6

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37	Structural and Optical Properties of Sol-gel Processed ZnCdMgO Nanostructured Films as Transparent Conductor. Advanced Materials Letters, 2014, 5, 587-592.	0.6	6
38	Photovoltaic performance of P3HT-porphyrin functionalized 1D CdS nanostructured organic inorganic bulk heterojunction hybrid solar cells. EPJ Applied Physics, 2017, 78, 34809.	0.7	5
39	CHARACTERIZATION OF DROP CASTED CuTsPc FILMS ON ITO SUBSTRATES. International Journal of Nanoscience, 2013, 12, 1350001.	0.7	3
40	SYNTHESIS OF RGOâ€“ZnO COMPOSITES FOR THERMAL, ELECTRICAL AND ANTIBACTERIAL STUDIES. Surface Review and Letters, 2017, 24, 1750095.	1.1	3
41	Identification of polycyclic aromatic hydrocarbons in roadside leaves (Ficus benghalensis) as a measure of air pollution in a semi arid region of northern, Indian city-A smart city. Environmental Technology and Innovation, 2019, 16, 100485.	6.1	3
42	Inverted Ternary Bulk Hetrojunction Hybrid Photovoltaic Device Based On AgInSe2 â€“polymer Blend As Absorber And PEDOT: PSS As Hole Transport Layer. Advanced Materials Letters, 2015, 6, 421-424.	0.6	3
43	Nanocomposite polymer electrolytes for energy devices. , 2021, , 27-40.		2
44	Dip Coated ZnO Films for Transparent Window Applications. Journal of Nano- and Electronic Physics, 2018, 10, 05038-1-05038-5.	0.5	2
45	Nanopowder and Thin Films of ZnO by Sol Gel Approach. Journal of Nano- and Electronic Physics, 2019, 11, 04027-1-04027-5.	0.5	2
46	Solar power energy derived from nanotools and devices. , 2021, , 473-503.		1
47	Cupric Oxide Thin Films for Optoelectronic Application. ECS Meeting Abstracts, 2018, , .	0.0	1
48	INFILTRATED SILICA PHOTONIC CRYSTAL WITH LIQUID CRYSTAL AND VARIOUS ORGANIC LIQUIDS. Surface Review and Letters, 2017, 24, 1750054.	1.1	0
49	Nanodispersed polymer gels used as electrolytes in lithium-ion batteries. , 2021, , 41-57.		0