

Mohd Hamdi Buraidah

List of Publications by Citations

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51
papers

1,293
citations

20
h-index

35
g-index

52
ext. papers

1,473
ext. citations

3.4
avg, IF

4.81
L-index

#	Paper	IF	Citations
51	Ionic conductivity by correlated barrier hopping in NH ₄ I doped chitosan solid electrolyte. <i>Physica B: Condensed Matter</i> , 2009 , 404, 1373-1379	2.8	179
50	Characterization of chitosan/PVA blended electrolyte doped with NH ₄ I. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 3261-3266	3.9	148
49	One-step electrochemical deposition of Ni _{1-x} Mo _x S ternary sulfides as an efficient counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16119-16127	13	65
48	Conductivity and dielectric studies of Li ₂ SnO ₃ . <i>Ionics</i> , 2012 , 18, 655-665	2.7	65
47	An optimized poly(vinylidene fluoride-hexafluoropropylene)/NaI gel polymer electrolyte and its application in natural dye sensitized solar cells. <i>Electrochimica Acta</i> , 2014 , 121, 159-167	6.7	61
46	Effect of tetrabutylammonium iodide content on PVDF-PMMA polymer blend electrolytes for dye-sensitized solar cells. <i>Ionics</i> , 2015 , 21, 2889-2896	2.7	56
45	High efficient dye sensitized solar cells using phthaloylchitosan based gel polymer electrolytes. <i>Electrochimica Acta</i> , 2017 , 245, 846-853	6.7	54
44	Synthesis and characterization of (Ni _{1-x} Cox)Se ₂ based ternary selenides as electrocatalyst for triiodide reduction in dye-sensitized solar cells. <i>Journal of Solid State Chemistry</i> , 2016 , 238, 113-120	3.3	54
43	TiO ₂ /Chitosan-NH ₄ I(+I ₂)-BMII-Based Dye-Sensitized Solar Cells with Anthocyanin Dyes Extracted from Black Rice and Red Cabbage. <i>International Journal of Photoenergy</i> , 2011 , 2011, 1-11	2.1	52
42	Polyacrylonitrile gel polymer electrolyte based dye sensitized solar cells for a prototype solar panel. <i>Electrochimica Acta</i> , 2017 , 251, 223-234	6.7	50
41	PVA based gel polymer electrolytes with mixed iodide salts (K+I ₃ ⁻ and Bu ₄ N+I ₃ ⁻) for dye-sensitized solar cell application. <i>Electrochimica Acta</i> , 2015 , 182, 217-223	6.7	36
40	Impact of tetrabutylammonium, iodide and triiodide ions conductivity in polyacrylonitrile based electrolyte on DSSC performance. <i>Solar Energy</i> , 2020 , 196, 379-388	6.8	36
39	Performance of polymer electrolyte based on chitosan blended with poly(ethylene oxide) for plasmonic dye-sensitized solar cell. <i>Optical Materials</i> , 2016 , 57, 202-211	3.3	34
38	Quasi solid state dye-sensitized solar cells based on polyvinyl alcohol (PVA) electrolytes containing (mathbf{I}^{\mathbf{-}}/\mathbf{I}_3^{\mathbf{-}}) redox couple. <i>Optical and Quantum Electronics</i> , 2014 , 46, 143-154	2.4	34
37	Synthesis of various carbon incorporated flower-like MoS ₂ microspheres as counter electrode for dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 581-590	2.6	33
36	Effect of lithium iodide on the performance of dye sensitized solar cells (DSSC) using poly(ethylene oxide) (PEO)/poly(vinyl alcohol) (PVA) based gel polymer electrolytes. <i>Optical Materials</i> , 2018 , 85, 531-537	3.3	30
35	Characterizations of Chitosan-Based Polymer Electrolyte Photovoltaic Cells. <i>International Journal of Photoenergy</i> , 2010 , 2010, 1-7	2.1	27

34	Performance of Dye-Sensitized Solar Cells with (PVDF-HFP)-KI-EC-PC Electrolyte and Different Dye Materials. <i>International Journal of Photoenergy</i> , 2011 , 2011, 1-5	2.1	27
33	Synthesis of TiO_2/C by Carburization of TiO_2 Nanowires and Its Electrocatalytic Activity towards Tri-iodide Reduction for Dye-Sensitized Solar Cells. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 1339-1344	9.1	24
32	Conductivity studies of poly(ethylene oxide)(PEO)/poly(vinyl alcohol) (PVA) blend gel polymer electrolytes for dye-sensitized solar cells. <i>Ionics</i> , 2016 , 22, 2133-2142	2.7	21
31	Polyacrylonitrile-based gel polymer electrolytes for dye-sensitized solar cells: a review. <i>Ionics</i> , 2020 , 26, 4215-4238	2.7	18
30	Development of gel polymer electrolytes for application in quantum dot-sensitized solar cells. <i>Ionics</i> , 2017 , 23, 347-355	2.7	17
29	Application of LiBOB-based liquid electrolyte in co-sensitized solar cell. <i>Optical Materials</i> , 2013 , 36, 151-158	3.5	15
28	Dye-sensitized solar cells with sequentially deposited anthocyanin and chlorophyll dye as sensitizers. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	15
27	Characteristics of TiO_2 /solid electrolyte junction solar cells with redox couple. <i>Optical Materials</i> , 2010 , 32, 723-728	3.3	14
26	Investigation of counter electrode materials for gel polymer electrolyte based quantum dot sensitized solar cells. <i>Electrochimica Acta</i> , 2017 , 241, 487-496	6.7	13
25	Synthesis of W, Nb and Ta doped TiO_2 and Their Application as Counter Electrode in Dye-sensitized Solar Cells. <i>Materials Today: Proceedings</i> , 2016 , 3, S65-S72	1.4	12
24	Boosting Efficiencies of Gel Polymer Electrolyte Based Dye Sensitized Solar Cells Using Mixed Cations. <i>Materials Today: Proceedings</i> , 2017 , 4, 5092-5099	1.4	11
23	Characterisation of Li_2SnO_3 by solution evaporation method using nitric acid as chelating agent. <i>Materials Research Innovations</i> , 2011 , 15, s127-s131	1.9	11
22	Effect of 1-Butyl-3-Methylimidazolium Iodide on the Performance of Dye-Sensitized Solar Cell Having PEO-PVA Based Gel Polymer Electrolyte. <i>Materials Today: Proceedings</i> , 2017 , 4, 5161-5168	1.4	10
21	Low Cost Rice Husk Ash/PEDOT:PSS Composite Film as a Counter Electrode for Dye-Sensitized Solar Cells. <i>Materials Focus</i> , 2016 , 5, 355-361		8
20	Characteristics of dye-sensitized solar cells (DSSCs) using liquid and gel polymer electrolytes with tetrapropylammonium salt. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1	2.4	6
19	Third-Generation-Sensitized Solar Cells 2017 ,		6
18	Development of solid polymer electrolytes based on sodium-carboxymethylcellulose (NaCMC)-polysulphide for quantum dot-sensitized solar cells (QDSSCs). <i>Ionics</i> , 2020 , 26, 1365-1378	2.7	6
17	A novel LiSnVO_4 anode material for lithium-ion batteries. <i>Ionics</i> , 2015 , 21, 2393-2399	2.7	5

16	PVA-based gel polymer electrolytes doped with (CH ₃) ₄ NI/KI for application in dye-sensitized solar cells 2013 ,		5
15	Development on Solid Polymer Electrolytes for Electrochemical Devices. <i>Molecules</i> , 2021 , 26,	4.8	5
14	Study on Li ⁺ ion diffusion in Li ₂ SnO ₃ anode material by CV and EIS techniques. <i>Molecular Crystals and Liquid Crystals</i> , 2019 , 694, 117-130	0.5	5
13	Dye-sensitized solar cells using binary iodide-PVA gel electrolyte 2013 ,		4
12	Enhanced photo-current conversion efficiency by incorporation of succinonitrile in N-Phthaloylchitosan based bio-polymer electrolyte for dye sensitized solar cell. <i>Optik</i> , 2020 , 222, 165467	2.5	4
11	Impact of Diethyl carbonate in PVA based gel polymer electrolytes on dye-sensitized solar cells performance. <i>Optical and Quantum Electronics</i> , 2021 , 53, 1	2.4	4
10	Determining the potential of 55 wt.% chitosan-45 wt.% NH ₄ I biopolymer electrolyte for application in dye-sensitized solar cells. <i>Molecular Crystals and Liquid Crystals</i> , 2019 , 695, 1-9	0.5	3
9	Boosting the efficiency of dye-sensitized TiO ₂ solar cells using plasmonic gold nanoparticles. <i>Materials Today: Proceedings</i> , 2019 , 17, 465-471	1.4	2
8	Poly(acrylamide-co-acrylic acid) gel polymer electrolyte incorporating with water-soluble sodium sulfide salt for quasi-solid-state quantum dot-sensitized solar cell. <i>High Performance Polymers</i> , 2020 , 32, 183-191	1.6	2
7	Preparation and Characterization of Polymer based Electrolytes for Dye-sensitized Solar Cell Application. <i>Journal of Applied Science & Process Engineering</i> , 2021 , 8, 750-764	1	2
6	Effect of the potassium iodide in tetrapropyl ammonium iodide-polyvinyl alcohol based gel polymer electrolyte for dye-sensitized solar cells. <i>Optik</i> , 2021 , 247, 167978	2.5	2
5	Electrical Properties of Plasticized Sodium-Carboxymethylcellulose (NaCMC) Based Polysulfide Solid Polymer Electrolyte 2018 ,		1
4	Solar Module Using Dye-Sensitized Solar Cells 2018 ,		1
3	Study of some sensitizers for gel polymer electrolyte based sensitized solar cells (SSCs). <i>Materials Today: Proceedings</i> , 2019 , 17, 394-400	1.4	
2	Optical Properties of Semiconductor Nanoparticles in Photoelectrochemical Cells. <i>Advances in Materials Science and Engineering</i> , 2016 , 283-306		
1	Polysaccharide-based polymer electrolytes for future renewable energy sources 2021 , 283-316		