Mohd Hamdi Buraidah

List of Publications by Year in Descending Order

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	Development on Solid Polymer Electrolytes for Electrochemical Devices. *Molecules*, **2021**, 26,	4.8	5
50	Preparation and Characterization of Polymer based Electrolytes for Dye-sensitized Solar Cell Application. *Journal of Applied Science & Process Engineering*, **2021**, 8, 750-764	1	2
49	Impact of Diethyl carbonate in PVA based gel polymer electrolytes on dye-sensitized solar cells performance. *Optical and Quantum Electronics*, **2021**, 53, 1	2.4	4
48	Polysaccharide-based polymer electrolytes for future renewable energy sources **2021**, 283-316		
47	Effect of the potassium iodide in tetrapropyl ammonium iodide-polyvinyl alcohol based gel polymer electrolyte for dye-sensitized solar cells. *Optik*, **2021**, 247, 167978	2.5	2
46	Poly(acrylamide-co-acrylic acid) gel polymer electrolyte incorporating with water-soluble sodium sulfide salt for quasi-solid-state quantum dot-sensitized solar cell. *High Performance Polymers*, **2020** , 32, 183-191	1.6	2
45	Polyacrylonitrile-based gel polymer electrolytes for dye-sensitized solar cells: a review. *Ionics*, **2020**, 26, 4215-4238	2.7	18
44	Characteristics of dye-sensitized solar cells (DSSCs) using liquid and gel polymer electrolytes with tetrapropylammonium salt. *Optical and Quantum Electronics*, **2020**, 52, 1	2.4	6
43	Development of solid polymer electrolytes based on sodium-carboxymethylcellulose (NaCMC)-polysulphide for quantum dot-sensitized solar cells (QDSSCs). *Ionics*, **2020**, 26, 1365-1378	2.7	6
42	Impact of tetrabutylammonium, iodide and triiodide ions conductivity in polyacrylonitrile based electrolyte on DSSC performance. *Solar Energy*, **2020**, 196, 379-388	6.8	36
41	Enhanced photo-current conversion efficiency by incorporation of succinonitrile in N-Phthaloylchitosan based bio-polymer electrolyte for dye sensitized solar cell. *Optik*, **2020**, 222, 165467	2.5	4
40	Study of some sensitizers for gel polymer electrolyte based sensitized solar cells (SSCs). *Materials Today: Proceedings*, **2019**, 17, 394-400	1.4	
39	Boosting the efficiency of dye-sensitized TiO2 solar cells using plasmonic gold nanoparticles. *Materials Today: Proceedings*, **2019**, 17, 465-471	1.4	2
38	Study on Li+ ion diffusion in Li2SnO3 anode material by CV and EIS techniques. *Molecular Crystals and Liquid Crystals*, **2019**, 694, 117-130	0.5	5
37	Determining the potential of 55 wt.% chitosan-45 wt.% NH4I biopolymer electrolyte for application in dye-sensitized solar cells. *Molecular Crystals and Liquid Crystals*, **2019**, 695, 1-9	0.5	3
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. *Optical Materials*, **2018**, 85, 531-537	3.2	30
35	Electrical Properties of Plasticized Sodium-Carboxymethylcellulose (NaCMC) Based Polysulfide Solid Polymer Electrolyte **2018**,		1

34	Solar Module Using Dye-Sensitized Solar Cells **2018**,		1
33	Investigation of counter electrode materials for gel polymer electrolyte based quantum dot sensitized solar cells. *Electrochimica Acta*, **2017**, 241, 487-496	6.7	13
32	High efficient dye sensitized solar cells using phthaloylchitosan based gel polymer electrolytes. *Electrochimica Acta*, **2017**, 245, 846-853	6.7	54
31	Third-Generation-Sensitized Solar Cells **2017**,		6
30	Polyacrylonitrile gel polymer electrolyte based dye sensitized solar cells for a prototype solar panel. *Electrochimica Acta*, **2017**, 251, 223-234	6.7	50
29	Boosting Efficiencies of Gel Polymer Electrolyte Based Dye Sensitized Solar Cells Using Mixed Cations. *Materials Today: Proceedings*, **2017**, 4, 5092-5099	1.4	11
28	Effect of 1-Butyl-3-Methylimidazolium Iodide on the Performance of Dye-Sensitized Solar Cell Having PEO-PVA Based Gel Polymer Electrolyte. *Materials Today: Proceedings*, **2017**, 4, 5161-5168	1.4	10
27	Development of gel polymer electrolytes for application in quantum dot-sensitized solar cells. *Ionics*, **2017**, 23, 347-355	2.7	17
26	Synthesis of various carbon incorporated flower-like MoS2 microspheres as counter electrode for dye-sensitized solar cells. *Journal of Solid State Electrochemistry*, **2017**, 21, 581-590	2.6	33
25	One-step electrochemical deposition of Ni1−xMoxS ternary sulfides as an efficient counter electrode for dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 16119-16127	13	65
24	Performance of polymer electrolyte based on chitosan blended with poly(ethylene oxide) for plasmonic dye-sensitized solar cell. *Optical Materials*, **2016**, 57, 202-211	3.3	34
23	Conductivity studies of poly(ethylene oxide)(PEO)/poly(vinyl alcohol) (PVA) blend gel polymer electrolytes for dye-sensitized solar cells. *Ionics*, **2016**, 22, 2133-2142	2.7	21
22	Synthesis and characterization of (Ni1−xCox)Se2 based ternary selenides as electrocatalyst for triiodide reduction in dye-sensitized solar cells. *Journal of Solid State Chemistry*, **2016**, 238, 113-120	3.3	54
21	Synthesis of W, Nb and Ta doped β-Mo2C and Their Application as Counter Electrode in Dye-sensitized Solar Cells. *Materials Today: Proceedings*, **2016**, 3, S65-S72	1.4	12
20	Synthesis of β-Mo2C by Carburization of β-MoO3 Nanowires and Its Electrocatalytic Activity towards Tri-iodide Reduction for Dye-Sensitized Solar Cells. *Journal of Materials Science and Technology*, **2016**, 32, 1339-1344	9.1	24
19	Low Cost Rice Husk Ash/PEDOT:PSS Composite Film as a Counter Electrode for Dye-Sensitized Solar Cells. *Materials Focus*, **2016**, 5, 355-361		8
18	Optical Properties of Semiconductor Nanoparticles in Photoelectrochemical Cells. *Advances in Materials Science and Engineering*, **2016**, 283-306		
17	Dye-sensitized solar cells with sequentially deposited anthocyanin and chlorophyll dye as sensitizers. *Optical and Quantum Electronics*, **2016**, 48, 1	2.4	15

16	A novel LiSnVO4 anode material for lithium-ion batteries. *Ionics*, **2015**, 21, 2393-2399	2.7	5
15	PVA based gel polymer electrolytes with mixed iodide salts (K+I and Bu4N+I) for dye-sensitized solar cell application. *Electrochimica Acta*, **2015**, 182, 217-223	6.7	36
14	Effect of tetrabutylammonium iodide content on PVDF-PMMA polymer blend electrolytes for dye-sensitized solar cells. *Ionics*, **2015**, 21, 2889-2896	2.7	56
13	An optimized poly(vinylidene fluoride-hexafluoropropylene)NaI gel polymer electrolyte and its application in natural dye sensitized solar cells. *Electrochimica Acta*, **2014**, 121, 159-167	6.7	61
12	Quasi solid state dye-sensitized solar cells based on polyvinyl alcohol (PVA) electrolytes containing (mathbf{I}^{mathbf{-}}/mathbf{I}_{mathbf{3}}^{mathbf{-}}) redox couple. *Optical and Quantum Electronics*, **2014**, 46, 143-154	2.4	34
11	Application of LiBOB-based liquid electrolyte in co-sensitized solar cell. *Optical Materials*, **2013**, 36, 151-158	3.3	15
10	Dye-sensitized solar cells using binary iodide-PVA gel electrolyte **2013**,		4
9	PVA-based gel polymer electrolytes doped with (CH3)4NI/KI for application in dye-sensitized solar cells **2013**,		5
8	Conductivity and dielectric studies of Li2SnO3. *Ionics*, **2012**, 18, 655-665	2.7	65
7	Characterization of chitosan/PVA blended electrolyte doped with NH4I. *Journal of Non-Crystalline Solids*, **2011**, 357, 3261-3266	3.9	148
6	Characterisation of Li2SnO3 by solution evaporation method using nitric acid as chelating agent. *Materials Research Innovations*, **2011**, 15, s127-s131	1.9	11
5	TiO2/Chitosan-NH4I(+I2)-BMII-Based Dye-Sensitized Solar Cells with Anthocyanin Dyes Extracted from Black Rice and Red Cabbage. *International Journal of Photoenergy*, **2011**, 2011, 1-11	2.1	52
4	Performance of Dye-Sensitized Solar Cells with (PVDF-HFP)-KI-EC-PC Electrolyte and Different Dye Materials. *International Journal of Photoenergy*, **2011**, 2011, 1-5	2.1	27
3	Characterizations of Chitosan-Based Polymer Electrolyte Photovoltaic Cells. *International Journal of Photoenergy*, **2010**, 2010, 1-7	2.1	27
2	Characteristics of TiO2/solid electrolyte junction solar cells with redox couple. *Optical Materials*, **2010**, 32, 723-728	3.3	14
1	Ionic conductivity by correlated barrier hopping in NH4I doped chitosan solid electrolyte. *Physica B: Condensed Matter*, **2009**, 404, 1373-1379	2.8	179