

Mohd Yusri Abd Rahman

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89
papers

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35
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95
ext. papers

1,830
ext. citations

3.3
avg, IF

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L-index

#	Paper	IF	Citations
89	Review on polymer electrolyte in dye-sensitized solar cells (DSSCs). <i>Solar Energy</i> , 2015 , 115, 452-470	6.8	198
88	Morphology, chemical interaction, and conductivity of a PEO-ENR50 based on solid polymer electrolyte. <i>Ionics</i> , 2010 , 16, 161-170	2.7	104
87	The potential of polyurethane bio-based solid polymer electrolyte for photoelectrochemical cell application. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 3005-3017	6.7	64
86	Chemical interaction and conductivity of carboxymethyl κ -carrageenan based green polymer electrolyte. <i>Solid State Ionics</i> , 2012 , 224, 51-57	3.3	63
85	Direct growth of oriented ZnO nanotubes by self-selective etching at lower temperature for photo-electrochemical (PEC) solar cell application. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 153-158	5.7	62
84	Green synthesis of few-layered graphene from aqueous processed graphite exfoliation for graphene thin film preparation. <i>Materials Chemistry and Physics</i> , 2017 , 193, 212-219	4.4	53
83	Effect of lithium salt concentrations on blended 49% poly(methyl methacrylate) grafted natural rubber and poly(methyl methacrylate) based solid polymer electrolyte. <i>Electrochimica Acta</i> , 2011 , 57, 123-131	6.7	45
82	Derivative of iota-carrageenan as solid polymer electrolyte. <i>Ionics</i> , 2015 , 21, 1311-1320	2.7	43
81	Two-Dimensional, Hierarchical Ag-Doped TiO Nanocatalysts: Effect of the Metal Oxidation State on the Photocatalytic Properties. <i>ACS Omega</i> , 2018 , 3, 2579-2587	3.9	36
80	Highly-reactive AgPt nanofern composed of {001}-faceted nanopyramidal spikes for enhanced heterogeneous photocatalysis application. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17655-17665	13	33
79	Porous Zn-doped TiO ₂ nanowall photoanode: Effect of Zn ²⁺ concentration on the dye-sensitized solar cell performance. <i>Applied Surface Science</i> , 2015 , 353, 835-842	6.7	30
78	Preparation and characterization of PMMA/MG49/PiClO ₄ solid polymeric electrolyte. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 055410	3	30
77	One-pot synthesis nano-hybrid ZrO ₂ /TiO ₂ fillers in 49% poly(methyl methacrylate) grafted natural rubber (MG49) based nano-composite polymer electrolyte for lithium ion battery application. <i>Solid State Ionics</i> , 2015 , 276, 72-79	3.3	29
76	Effect of organic dye, the concentration and dipping time of the organic dye N719 on the photovoltaic performance of dye-sensitized ZnO solar cell prepared by ammonia-assisted hydrolysis technique. <i>Electrochimica Acta</i> , 2013 , 88, 639-643	6.7	29
75	Tailoring the active surface sites of ZnO nanorods on the glass substrate for photocatalytic activity enhancement. <i>Surfaces and Interfaces</i> , 2019 , 15, 117-124	4.1	28
74	Effect of ZnO nanoparticles filler concentration on the properties of PEO-ENR50-LiCF ₃ SO ₃ solid polymeric electrolyte. <i>Ionics</i> , 2011 , 17, 451-456	2.7	27
73	Effect of ionic conductivity of a PVC/PiClO ₄ based solid polymeric electrolyte on the performance of solar cells of ITO/TiO ₂ /PVC/PiClO ₄ /graphite. <i>Journal of Power Sources</i> , 2004 , 133, 293-297	8.9	27

72	Ionic conductivity studies of 49% poly(methyl methacrylate)-grafted natural rubber-based solid polymer electrolytes. <i>Ionics</i> , 2009 , 15, 497-500	2.7	26
71	LiClO ₄ salt concentration effect on the properties of PVC-modified low molecular weight LENR50-based solid polymer electrolyte. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 2227-2233	2.9	25
70	Preparation of grass-like TiO ₂ nanostructure thin films: Effect of growth temperature. <i>Applied Surface Science</i> , 2013 , 270, 109-114	6.7	24
69	Effect of ethylene carbonate plasticizer and TiO ₂ nanoparticles on 49% poly(methyl methacrylate) grafted natural rubber-based polymer electrolyte. <i>Ionics</i> , 2010 , 16, 821-826	2.7	23
68	Solid polymeric electrolyte of PVC/ENR/LiClO ₄ . <i>Ionics</i> , 2007 , 13, 67-70	2.7	23
67	Effect of boric acid composition on the properties of ZnO thin film nanotubes and the performance of dye-sensitized solar cell (DSSC). <i>Journal of Alloys and Compounds</i> , 2015 , 648, 86-91	5.7	21
66	Effect of NiO nanofiller concentration on the properties of PEO-NiO-LiClO ₄ composite polymer electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2487-2491	2.6	20
65	Preparation and characterization of a solid polymer electrolyte PEO-ENR50 (80/20)-LiCF ₃ SO ₃ . <i>Journal of Applied Polymer Science</i> , 2009 , 113, 855-859	2.9	20
64	Preparation and characterization of PVC/LiClO ₄ based composite polymer electrolyte. <i>Physica B: Condensed Matter</i> , 2008 , 403, 4128-4131	2.8	18
63	Investigation of plasticized UV-curable glycidyl methacrylate based solid polymer electrolyte for photoelectrochemical cell (PEC) application. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 3018-3024	6.7	17
62	Temperature dependence of the conductivity of plasticized poly(vinyl chloride)-low molecular weight liquid 50% epoxidized natural rubber solid polymer electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2251-2260	2.6	17
61	Effect of surface roughness of TiO ₂ films on short-circuit current density of photoelectrochemical cell of ITO/TiO ₂ /PVC-LiClO ₄ /graphite. <i>Current Applied Physics</i> , 2005 , 5, 599-602	2.6	17
60	Effect of LiBF ₄ Salt Concentration on the Properties of Plasticized MG49-TiO ₂ Based Nanocomposite Polymer Electrolyte. <i>ISRN Materials Science</i> , 2011 , 2011, 1-7		16
59	Improvement of dye-sensitized solar cell performance by utilizing graphene-coated TiO ₂ films photoanode. <i>Superlattices and Microstructures</i> , 2019 , 128, 92-98	2.8	15
58	Electrical properties of a solid polymeric electrolyte of PVC/nO/LiClO ₄ . <i>Ionics</i> , 2009 , 15, 221-225	2.7	15
57	Influence of binary lithium salts on 49% poly(methyl methacrylate) grafted natural rubber based solid polymer electrolytes. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 3351-3361	5.9	15
56	Fabrication and characterization of a solid polymeric electrolyte of PAN-TiO ₂ -LiClO ₄ . <i>Journal of Applied Polymer Science</i> , 2010 , 115, 2144-2148	2.9	14
55	Current transport mechanism and photovoltaic properties of photoelectrochemical cells of ITO/TiO ₂ /PVC/LiClO ₄ /graphite. <i>Current Applied Physics</i> , 2007 , 7, 446-449	2.6	14

54	Fibrous AuPt bimetallic nanocatalyst with enhanced catalytic performance. <i>RSC Advances</i> , 2016 , 6, 27696-27705	5.7	14
53	Comparative study of the properties of TiO ₂ nanoflower and TiO ₂ -ZnO composite nanoflower and their application in dye-sensitized solar cells. <i>Ionics</i> , 2017 , 23, 1897-1902	2.7	13
52	(001) faceted-Ga-TiO ₂ microtablet synthesis and its organic perovskite sensitized solar cells characterization. <i>Journal of Alloys and Compounds</i> , 2016 , 674, 470-476	5.7	13
51	Polymer electrolyte for photoelectrochemical cell and dye-sensitized solar cell: a brief review. <i>Ionics</i> , 2014 , 20, 1201-1205	2.7	13
50	Nanocomposite solid polymeric electrolyte of 49% poly(methyl methacrylate)-grafted natural rubber/titanium dioxide/lithium tetrafluoroborate (MG49-TiO ₂ -LiBF ₄). <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 2611-2618	2.6	12
49	Effect of growth temperature and time on the ZnO film properties and the performance of dye-sensitized solar cell (DSSC). <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 1217-1221	2.6	11
48	Dye-sensitized solar cell (DSSC) utilizing reduced graphene oxide (RGO) films counter electrode: effect of graphene oxide (GO) content. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 1674-1678	2.1	11
47	Preparation and characterization of PVDF-MG49-NH ₄ CF ₃ SO ₃ based solid polymer electrolyte. <i>E-Polymers</i> , 2014 , 14, 115-120	2.7	11
46	Effect of optical property of surfactant-treated TiO ₂ nanostructure on the performance of TiO ₂ photo-electrochemical cell. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2005-2010	2.6	11
45	TiO ₂ /BrTiO ₃ composite photoanode: effect of strontium precursor concentration on the performance of dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	10
44	Nickel sulphide-reduced graphene oxide composites as counter electrode for dye-sensitized solar cells: Influence of nickel chloride concentration. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 5191-5197	5.9	10
43	Influence of Ag ion adsorption on the photoactivity of ZnO nanorods for dye-sensitized solar cell application. <i>Materials Express</i> , 2017 , 7, 312-318	1.3	10
42	Structural and properties transformation in ZnO hexagonal nanorod by ruthenium doping and its effect on DSSCs power conversion efficiency. <i>Superlattices and Microstructures</i> , 2018 , 123, 119-128	2.8	10
41	Dye-sensitized solar cell utilizing silver-reduced graphene oxide film counter electrode: effect of silver content on its performance. <i>Ionics</i> , 2018 , 24, 3665-3671	2.7	9
40	Morphological, infrared, and ionic conductivity studies of poly(ethylene oxide)/49% poly(methyl methacrylate) grafted natural rubber/lithium perchlorate salt based solid polymer electrolytes. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 4222-4229	2.9	9
39	Influence of ZnO growth temperature on the performance of dye-sensitized solar cell utilizing TiO ₂ -ZnO composite film photoanode. <i>Ionics</i> , 2017 , 23, 3533-3544	2.7	9
38	Light intensity and temperature dependence on performance of a photoelectrochemical cells of ITO/TiO ₂ /PVC-LiClO ₄ /graphite. <i>Ionics</i> , 2007 , 13, 241-244	2.7	9
37	Effect of zinc acetate dihydrate precursor concentration on the properties of TiO ₂ /ZnO core-shell nanograss hetero-structure. <i>Journal of Alloys and Compounds</i> , 2015 , 623, 460-465	5.7	8

36	Preparation and characterization of blended solid polymer electrolyte 49% poly(methyl methacrylate)-grafted natural rubber:poly(methyl methacrylate)lithium tetrafluoroborate. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2275-2282	2.6	8
35	Seed-Mediated Liquid Phase Deposition Method for TiO ₂ Nanostructure Growth on ITO Substrate: Effect of Surfactant. <i>Advanced Materials Research</i> , 2011 , 364, 393-397	0.5	8
34	Fabrication of a nanoparticle TiO ₂ photoelectrochemical cell utilizing a solid polymeric electrolyte of PANi/PClO ₄ . <i>Ionics</i> , 2010 , 16, 639-644	2.7	8
33	TiO ₂ -coated ZnS films as photoanode for dye-sensitized solar cell: effect of zinc nitrate hexahydrate concentration on the performance. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	8
32	Zinc sulphide-coated titanium dioxide films as photoanode for dye-sensitized solar cells: Effect of immersion time on its performance. <i>Superlattices and Microstructures</i> , 2019 , 130, 153-159	2.8	7
31	Effect of molar ratio of zinc nitrate: hexamethylenetetramine on the properties of ZnO thin film nanotubes and nanorods and the performance of dye-sensitized solar cell (DSSC). <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 7955-7966	2.1	7
30	Effect of organic dye on the performance of dye-sensitized solar cell utilizing TiO ₂ nanostructure films synthesized via CTAB-assisted liquid phase deposition technique. <i>Russian Journal of Electrochemistry</i> , 2014 , 50, 1072-1076	1.2	7
29	Effect of ionic liquid 1-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide on the properties of poly(glycidyl methacrylate) based solid polymer electrolytes. <i>Russian Journal of Electrochemistry</i> , 2016 , 52, 362-373	1.2	7
28	Dye-sensitized solar cell utilizing silver doped reduced graphene oxide films counter electrode: Influence of annealing temperature on its performance. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 3383-3390	5.9	7
27	Effect of ZnO growth time on the performance of dye-sensitized solar cell utilizing TiO ₂ /ZnO core-shell nanograss hetero-structure. <i>Materials Letters</i> , 2015 , 160, 388-391	3.3	6
26	Effect of annealing treatment on multilayer TiO ₂ films on the performance of dye-sensitized solar cells. <i>Optik</i> , 2020 , 218, 164976	2.5	6
25	Perovskite-sensitized solar cells-based GaInO ₂ nanodiatom-like photoanode: the improvement of performance by perovskite crystallinity refinement. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	6
24	Effect of ionic conductivity of a PANi/PClO ₄ solid polymeric electrolyte on the performance of a TiO ₂ photoelectrochemical cell. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 2089-2093	2.6	6
23	Nickel/Palladium alloy/reduced graphene oxide as counter electrode for dye-sensitized solar cells. <i>Journal of Molecular Liquids</i> , 2021 , 326, 115289	6	6
22	Effect of N719 Dye Dipping Temperature on the Performance of Dye-Sensitized Solar Cell. <i>Russian Journal of Electrochemistry</i> , 2018 , 54, 755-759	1.2	6
21	Synthesis and characterization of TiO ₂ /ZnO core-shell nanograss hetero-structure and its application in dye-sensitized solar cell (DSSC). <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 4936-4943	2.1	5
20	Effect of dimethyl borate composition on the performance of boron doped ZnO dye-sensitized solar cell (DSSC). <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 2228-2234	2.1	5
19	Photo-polymerization of methacrylate based polymer electrolyte for dye-sensitized solar cell. <i>Journal of Polymer Engineering</i> , 2014 , 34, 695-702	1.4	5

18	Boron doped ZnO films for dye-sensitized solar cell (DSSC): effect of annealing temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 8394-8401	2.1	5
17	Comparative study of the properties of plasticized (PVDF-HFP)-MG49-LiBF ₄ blend polymer electrolytes. <i>Russian Journal of Electrochemistry</i> , 2015 , 51, 227-235	1.2	4
16	Dye-Sensitized Solar Cell Utilizing TiO ₂ Nanostructure Films: Effect of Synthesis Temperature. <i>Russian Journal of Electrochemistry</i> , 2018 , 54, 56-61	1.2	4
15	Facile charge transfer in fibrous PdPt bimetallic nanocube counter electrodes. <i>New Journal of Chemistry</i> , 2019 , 43, 11148-11156	3.6	3
14	Morphological, optical, structural and photoelectrochemical properties of TiO ₂ nanoflower prepared via PVP surfactant assisted liquid phase deposition technique. <i>Journal of Experimental Nanoscience</i> , 2015 , 10, 925-936	1.9	3
13	Morphology, structure, optical property and photoelectrochemical property of TiO ₂ nanoflower films synthesised via liquid phase deposition technique. <i>Micro and Nano Letters</i> , 2014 , 9, 253-256	0.9	3
12	Preparation and characterization of solid polymeric electrolyte of poly(vinyl) chloride-low-molecular weight LENR50 (70/30)-LiClO ₄ . <i>Journal of Applied Polymer Science</i> , 2012 , 126, E159-E165	2.9	3
11	Solid state photoelectrochemical cells utilising graphite thin films counter electrode. <i>Ionics</i> , 2005 , 11, 275-280	2.7	3
10	Dye-sensitized solar cell utilizing TiO ₂ /Sulphur composite photoanode: influence of sulphur precursor content. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	2
9	Effect of hexamethylenetetramine (HMT) concentration on the properties of boron doped ZnO nanotubes array films and the performance of dye-sensitized solar cell (DSSC) 2018 ,		2
8	Dye-sensitized solar cell utilising gold doped reduced graphene oxide counter electrode: influence of annealing time. <i>Micro and Nano Letters</i> , 2018 , 13, 1224-1226	0.9	2
7	Dye-sensitized solar cell using nickel sulfide-reduced graphene oxide counter electrode: Effect of sulphur content. <i>Inorganic Chemistry Communication</i> , 2021 , 135, 109086	3.1	1
6	Charge transfer uplift in dye-sensitized solar cells using fibrous nanocrystals of platinum-based bimetallic counter electrodes. <i>Surfaces and Interfaces</i> , 2021 , 26, 101311	4.1	1
5	Influence of annealing temperature of ZnS-coated TiO ₂ films on the performance of dye-sensitized solar cells. <i>Optik</i> , 2020 , 211, 164644	2.5	0
4	Effect of annealing temperature on the performance of dye-sensitized solar cell using nickel sulphide/reduced graphene oxide cathode. <i>Bulletin of Materials Science</i> , 2021 , 44, 1	1.7	0
3	Review of graphene and its modification as cathode for dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 23690-23719	2.1	0
2	Palladium selenide as cathode for dye-sensitized solar cell: Effect of palladium content. <i>Solid-State Electronics</i> , 2022 , 190, 108255	1.7	0
1	Comparative study of dye-sensitized solar cell utilizing selenium and palladium cathode. <i>Journal of the Indian Chemical Society</i> , 2021 , 99, 100289		

