

# Mohd Yusri Abd Rahman

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89  
papers

1,590  
citations

22  
h-index

35  
g-index

95  
ext. papers

1,830  
ext. citations

3.3  
avg, IF

5.03  
L-index

#	Paper	IF	Citations
89	Palladium selenide as cathode for dye-sensitized solar cell: Effect of palladium content. <i>Solid-State Electronics</i> , <b>2022</b> , 190, 108255	1.7	0
88	Comparative study of dye-sensitized solar cell utilizing selenium and palladium cathode. <i>Journal of the Indian Chemical Society</i> , <b>2021</b> , 99, 100289		
87	Dye-sensitized solar cell using nickel sulfide-reduced graphene oxide counter electrode: Effect of sulphur content. <i>Inorganic Chemistry Communication</i> , <b>2021</b> , 135, 109086	3.1	1
86	NickelPalladium alloy-reduced graphene oxide as counter electrode for dye-sensitized solar cells. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 326, 115289	6	6
85	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> , <b>2021</b> , 44, 1	1.7	0
84	Review of graphene and its modification as cathode for dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 23690-23719	2.1	0
83	Charge transfer uplift in dye-sensitized solar cells using fibrous nanocrystals of platinum-based bimetallic counter electrodes. <i>Surfaces and Interfaces</i> , <b>2021</b> , 26, 101311	4.1	1
82	Influence of annealing temperature of ZnS-coated TiO <sub>2</sub> films on the performance of dye-sensitized solar cells. <i>Optik</i> , <b>2020</b> , 211, 164644	2.5	0
81	Effect of annealing treatment on multilayer TiO <sub>2</sub> films on the performance of dye-sensitized solar cells. <i>Optik</i> , <b>2020</b> , 218, 164976	2.5	6
80	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> , <b>2020</b> , 13, 5191-5197	5.9	10
79	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> , <b>2020</b> , 13, 3383-3390	5.9	7
78	Influence of binary lithium salts on 49% poly(methyl methacrylate) grafted natural rubber based solid polymer electrolytes. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 3351-3361	5.9	15
77	Improvement of dye-sensitized solar cell performance by utilizing graphene-coated TiO <sub>2</sub> films photoanode. <i>Superlattices and Microstructures</i> , <b>2019</b> , 128, 92-98	2.8	15
76	TiO <sub>2</sub> /TiO <sub>3</sub> composite photoanode: effect of strontium precursor concentration on the performance of dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	10
75	Facile charge transfer in fibrous PdPt bimetallic nanocube counter electrodes. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 11148-11156	3.6	3
74	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> , <b>2019</b> , 130, 153-159	2.8	7
73	Dye-sensitized solar cell utilizing TiO <sub>2</sub> /sulphur composite photoanode: influence of sulphur precursor content. <i>SN Applied Sciences</i> , <b>2019</b> , 1, 1	1.8	2

72	Tailoring the active surface sites of ZnO nanorods on the glass substrate for photocatalytic activity enhancement. <i>Surfaces and Interfaces</i> , <b>2019</b> , 15, 117-124	4.1	28
71	Two-Dimensional, Hierarchical Ag-Doped TiO Nanocatalysts: Effect of the Metal Oxidation State on the Photocatalytic Properties. <i>ACS Omega</i> , <b>2018</b> , 3, 2579-2587	3.9	36
70	Perovskite-sensitized solar cells-based GaTiO <sub>2</sub> nanodiatom-like photoanode: the improvement of performance by perovskite crystallinity refinement. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	6
69	Effect of hexamethylenetetramine (HMT) concentration on the properties of boron doped ZnO nanotubes array films and the performance of dye-sensitized solar cell (DSSC) <b>2018</b> ,		2
68	Dye-sensitized solar cell utilizing silver-reduced graphene oxide film counter electrode: effect of silver content on its performance. <i>Ionics</i> , <b>2018</b> , 24, 3665-3671	2.7	9
67	Dye-Sensitized Solar Cell Utilizing TiO <sub>2</sub> Nanostructure Films: Effect of Synthesis Temperature. <i>Russian Journal of Electrochemistry</i> , <b>2018</b> , 54, 56-61	1.2	4
66	Dye-sensitised solar cell utilising gold doped reduced graphene oxide counter electrode: influence of annealing time. <i>Micro and Nano Letters</i> , <b>2018</b> , 13, 1224-1226	0.9	2
65	Effect of N719 Dye Dipping Temperature on the Performance of Dye-Sensitized Solar Cell. <i>Russian Journal of Electrochemistry</i> , <b>2018</b> , 54, 755-759	1.2	6
64	Structural and properties transformation in ZnO hexagonal nanorod by ruthenium doping and its effect on DSSCs power conversion efficiency. <i>Superlattices and Microstructures</i> , <b>2018</b> , 123, 119-128	2.8	10
63	TiO <sub>2</sub> -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> , <b>2018</b> , 124, 1	2.6	8
62	Comparative study of the properties of TiO <sub>2</sub> nanoflower and TiO <sub>2</sub> -ZnO composite nanoflower and their application in dye-sensitized solar cells. <i>Ionics</i> , <b>2017</b> , 23, 1897-1902	2.7	13
61	Green synthesis of few-layered graphene from aqueous processed graphite exfoliation for graphene thin film preparation. <i>Materials Chemistry and Physics</i> , <b>2017</b> , 193, 212-219	4.4	53
60	Influence of ZnO growth temperature on the performance of dye-sensitized solar cell utilizing TiO <sub>2</sub> -ZnO composite film photoanode. <i>Ionics</i> , <b>2017</b> , 23, 3533-3544	2.7	9
59	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> , <b>2017</b> , 28, 1674-1678	2.1	11
58	Influence of Ag ion adsorption on the photoactivity of ZnO nanorods for dye-sensitized solar cell application. <i>Materials Express</i> , <b>2017</b> , 7, 312-318	1.3	10
57	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> , <b>2016</b> , 27, 2228-2234	2.1	5
56	(001) faceted-Ga-TiO <sub>2</sub> microtablet synthesis and its organic perovskite sensitized solar cells characterization. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 674, 470-476	5.7	13
55	Fibrous AuPt bimetallic nanocatalyst with enhanced catalytic performance. <i>RSC Advances</i> , <b>2016</b> , 6, 27696-27705	5.4	14

54	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> , <b>2016</b> , 52, 362-373	1.2	7
53	Boron doped ZnO films for dye-sensitized solar cell (DSSC): effect of annealing temperature. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 8394-8401	2.1	5
52	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> , <b>2015</b> , 19, 1217-1221	2.6	11
51	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> , <b>2015</b> , 648, 86-91	5.7	21
50	Porous Zn-doped TiO <sub>2</sub> nanowall photoanode: Effect of Zn <sup>2+</sup> concentration on the dye-sensitized solar cell performance. <i>Applied Surface Science</i> , <b>2015</b> , 353, 835-842	6.7	30
49	One-pot synthesis nano-hybrid ZrO <sub>2</sub> /TiO <sub>2</sub> 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> , <b>2015</b> , 276, 72-79	3.3	29
48	Synthesis and characterization of TiO <sub>2</sub> /ZnO core-shell nanograss hetero-structure and its application in dye-sensitized solar cell (DSSC). <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 4936-4943	2.1	5
47	Derivative of iota-carrageenan as solid polymer electrolyte. <i>Ionics</i> , <b>2015</b> , 21, 1311-1320	2.7	43
46	Comparative study of the properties of plasticized (PVDF-HFP)-MG49-LiBF <sub>4</sub> blend polymer electrolytes. <i>Russian Journal of Electrochemistry</i> , <b>2015</b> , 51, 227-235	1.2	4
45	Morphological, optical, structural and photoelectrochemical properties of TiO <sub>2</sub> nanoflower prepared via PVP surfactant assisted liquid phase deposition technique. <i>Journal of Experimental Nanoscience</i> , <b>2015</b> , 10, 925-936	1.9	3
44	Review on polymer electrolyte in dye-sensitized solar cells (DSSCs). <i>Solar Energy</i> , <b>2015</b> , 115, 452-470	6.8	198
43	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> , <b>2015</b> , 26, 7955-7966	2.1	7
42	Effect of ZnO growth time on the performance of dye-sensitized solar cell utilizing TiO <sub>2</sub> /ZnO core-shell nanograss hetero-structure. <i>Materials Letters</i> , <b>2015</b> , 160, 388-391	3.3	6
41	Effect of zinc acetate dihydrate precursor concentration on the properties of TiO <sub>2</sub> /ZnO core-shell nanograss hetero-structure. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 623, 460-465	5.7	8
40	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> , <b>2015</b> , 618, 153-158	5.7	62
39	The potential of polyurethane bio-based solid polymer electrolyte for photoelectrochemical cell application. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 3005-3017	6.7	64
38	Highly-reactive AgPt nanofern composed of {001}-faceted nanopyramidal spikes for enhanced heterogeneous photocatalysis application. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17655-17665	13	33
37	Polymer electrolyte for photoelectrochemical cell and dye-sensitized solar cell: a brief review. <i>Ionics</i> , <b>2014</b> , 20, 1201-1205	2.7	13

36	Investigation of plasticized UV-curable glycidyl methacrylate based solid polymer electrolyte for photoelectrochemical cell (PEC) application. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 3018-3024	6.7	17
35	Photo-polymerization of methacrylate based polymer electrolyte for dye-sensitized solar cell. <i>Journal of Polymer Engineering</i> , <b>2014</b> , 34, 695-702	1.4	5
34	Morphology, structure, optical property and photoelectrochemical property of TiO <sub>2</sub> nanoflower films synthesised via liquid phase deposition technique. <i>Micro and Nano Letters</i> , <b>2014</b> , 9, 253-256	0.9	3
33	Effect of organic dye on the performance of dye-sensitized solar cell utilizing TiO <sub>2</sub> nanostructure films synthesized via CTAB-assisted liquid phase deposition technique. <i>Russian Journal of Electrochemistry</i> , <b>2014</b> , 50, 1072-1076	1.2	7
32	Preparation and characterization of PVDF-MG49-NH <sub>4</sub> CF <sub>3</sub> SO <sub>3</sub> based solid polymer electrolyte. <i>E-Polymers</i> , <b>2014</b> , 14, 115-120	2.7	11
31	Preparation of grass-like TiO <sub>2</sub> nanostructure thin films: Effect of growth temperature. <i>Applied Surface Science</i> , <b>2013</b> , 270, 109-114	6.7	24
30	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> , <b>2013</b> , 88, 639-643	6.7	29
29	LiClO <sub>4</sub> salt concentration effect on the properties of PVC-modified low molecular weight LENR50-based solid polymer electrolyte. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 2227-2233	2.9	25
28	Morphological, infrared, and ionic conductivity studies of poly(ethylene oxide)/9% poly(methyl methacrylate) grafted natural rubber/lithium perchlorate salt based solid polymer electrolytes. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 4222-4229	2.9	9
27	Chemical interaction and conductivity of carboxymethyl Earrageenan based green polymer electrolyte. <i>Solid State Ionics</i> , <b>2012</b> , 224, 51-57	3.3	63
26	Preparation and characterization of solid polymeric electrolyte of poly(vinyl chloride)-low-molecular weight LENR50 (70/30)-LiClO <sub>4</sub> . <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 126, E159-E165	2.9	3
25	Effect of optical property of surfactant-treated TiO <sub>2</sub> nanostructure on the performance of TiO <sub>2</sub> photo-electrochemical cell. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 2005-2010	2.6	11
24	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> , <b>2012</b> , 16, 2251-2260	2.6	17
23	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> , <b>2012</b> , 16, 2275-2282	2.6	8
22	Effect of NiO nanofiller concentration on the properties of PEO-NiO-LiClO <sub>4</sub> composite polymer electrolyte. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 2487-2491	2.6	20
21	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> , <b>2011</b> , 57, 123-131	6.7	45
20	Nanocomposite solid polymeric electrolyte of 49% poly(methyl methacrylate)-grafted natural rubber/titanium dioxide/lithium tetrafluoroborate (MG49-TiO <sub>2</sub> -LiBF <sub>4</sub> ). <i>Journal of Solid State Electrochemistry</i> , <b>2011</b> , 15, 2611-2618	2.6	12
19	Effect of ZnO nanoparticles filler concentration on the properties of PEO-ENR50-LiCF <sub>3</sub> SO <sub>3</sub> solid polymeric electrolyte. <i>Ionics</i> , <b>2011</b> , 17, 451-456	2.7	27

18	Seed-Mediated Liquid Phase Deposition Method for TiO <sub>2</sub> Nanostructure Growth on ITO Substrate: Effect of Surfactant. <i>Advanced Materials Research</i> , <b>2011</b> , 364, 393-397	0.5	8
17	Effect of LiBF <sub>4</sub> Salt Concentration on the Properties of Plasticized MG49-TiO <sub>2</sub> Based Nanocomposite Polymer Electrolyte. <i>ISRN Materials Science</i> , <b>2011</b> , 2011, 1-7		16
16	Effect of ionic conductivity of a PAN/PClO <sub>4</sub> solid polymeric electrolyte on the performance of a TiO <sub>2</sub> photoelectrochemical cell. <i>Journal of Solid State Electrochemistry</i> , <b>2010</b> , 14, 2089-2093	2.6	6
15	Morphology, chemical interaction, and conductivity of a PEO-ENR50 based on solid polymer electrolyte. <i>Ionics</i> , <b>2010</b> , 16, 161-170	2.7	104
14	Fabrication of a nanoparticle TiO <sub>2</sub> photoelectrochemical cell utilizing a solid polymeric electrolyte of PAN/PClO <sub>4</sub> . <i>Ionics</i> , <b>2010</b> , 16, 639-644	2.7	8
13	Effect of ethylene carbonate plasticizer and TiO <sub>2</sub> nanoparticles on 49% poly(methyl methacrylate) grafted natural rubber-based polymer electrolyte. <i>Ionics</i> , <b>2010</b> , 16, 821-826	2.7	23
12	Fabrication and characterization of a solid polymeric electrolyte of PAN-TiO <sub>2</sub> -LiClO <sub>4</sub> . <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 115, 2144-2148	2.9	14
11	Preparation and characterization of a solid polymer electrolyte PEO-ENR50 (80/20)-LiCF <sub>3</sub> SO <sub>3</sub> . <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 113, 855-859	2.9	20
10	Electrical properties of a solid polymeric electrolyte of PVC/nOClO <sub>4</sub> . <i>Ionics</i> , <b>2009</b> , 15, 221-225	2.7	15
9	Ionic conductivity studies of 49% poly(methyl methacrylate)-grafted natural rubber-based solid polymer electrolytes. <i>Ionics</i> , <b>2009</b> , 15, 497-500	2.7	26
8	Preparation and characterization of PMMA/MG49/ClO <sub>4</sub> solid polymeric electrolyte. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 055410	3	30
7	Preparation and characterization of PVC/ClO <sub>4</sub> based composite polymer electrolyte. <i>Physica B: Condensed Matter</i> , <b>2008</b> , 403, 4128-4131	2.8	18
6	Current transport mechanism and photovoltaic properties of photoelectrochemical cells of ITO/TiO <sub>2</sub> /PVC/ClO <sub>4</sub> /graphite. <i>Current Applied Physics</i> , <b>2007</b> , 7, 446-449	2.6	14
5	Solid polymeric electrolyte of PVC/ENR/ClO <sub>4</sub> . <i>Ionics</i> , <b>2007</b> , 13, 67-70	2.7	23
4	Light intensity and temperature dependence on performance of a photoelectrochemical cells of ITO/TiO <sub>2</sub> /PVC-LiClO <sub>4</sub> /graphite. <i>Ionics</i> , <b>2007</b> , 13, 241-244	2.7	9
3	Effect of surface roughness of TiO <sub>2</sub> films on short-circuit current density of photoelectrochemical cell of ITO/TiO <sub>2</sub> /PVC-LiClO <sub>4</sub> /graphite. <i>Current Applied Physics</i> , <b>2005</b> , 5, 599-602	2.6	17
2	Solid state photoelectrochemical cells utilising graphite thin films counter electrode. <i>Ionics</i> , <b>2005</b> , 11, 275-280	2.7	3
1	Effect of ionic conductivity of a PVC/ClO <sub>4</sub> based solid polymeric electrolyte on the performance of solar cells of ITO/TiO <sub>2</sub> /PVC/ClO <sub>4</sub> /graphite. <i>Journal of Power Sources</i> , <b>2004</b> , 133, 293-297	8.9	27

