Norasikin Ahmad Ludin

List of Publications by Year
in descending order

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78 papers	3,377 citations	186265 28 h-index	144013 57 g-index
79 all docs	79 docs citations	79 times ranked	4725 citing authors

#	Article	IF	Citations
1	Performance-Enhancing Sulfur-Doped TiO2 Photoanodes for Perovskite Solar Cells. Applied Sciences (Switzerland), 2022, 12, 429.	2.5	3
2	Micropower system optimization for the telecommunication towers based on various renewable energy sources. International Journal of Electrical and Computer Engineering, 2022, 12, 1069.	0.7	2
3	An overview of coâ€catalysts on metal oxides for photocatalytic water splitting. International Journal of Energy Research, 2022, 46, 11596-11619.	4.5	13
4	Environmental Impact and Levelised Cost of Energy Analysis of Solar Photovoltaic Systems in Selected Asia Pacific Region: A Cradle-to-Grave Approach. Sustainability, 2021, 13, 396.	3.2	27
5	Correlation of simulation and experiment for perovskite solar cells with MoS2 hybrid-HTL structure. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	11
6	Ambient fabrication of perovskite solar cells through delay-deposition technique. Materials for Renewable and Sustainable Energy, 2021, 10, 1.	3.6	1
7	Chitosan as a paradigm for biopolymer electrolytes in solid-state dye-sensitised solar cells. Polymer, 2021, 230, 124092.	3.8	81
8	Performance evaluation of renewable energy R&D activities in Malaysia. Renewable Energy, 2021, 163, 544-560.	8.9	34
9	Sustainability and Life-Cycle Cost Analysis of Solar Photovoltaic-Generation Systems in ASEAN Countries. Economics, Law, and Institutions in Asia Pacific, 2021, , 277-302.	0.6	0
10	Recent Issues and Configuration Factors in Perovskite-Silicon Tandem Solar Cells towards Large Scaling Production. Nanomaterials, 2021, 11, 3186.	4.1	10
11	Fabrication of exfoliated graphitic carbon nitride, (g-C3N4) thin film by methanolic dispersion. Journal of Alloys and Compounds, 2020, 818, 152916.	5.5	49
12	Humidity sensing of thin film perovskite nanostructure for improved sensitivity and optical performance. Journal of Materials Research and Technology, 2020, 9, 13274-13281.	5.8	6
13	Tin and germanium substitution in lead free perovskite solar cell: current status and future trends. IOP Conference Series: Materials Science and Engineering, 2020, 957, 012057.	0.6	5
14	Renewable energy performance evaluation studies using the data envelopment analysis (DEA): A systematic review. Journal of Renewable and Sustainable Energy, 2020, 12, .	2.0	19
15	Electrochemical Properties of Natural Sensitizer from Garcinia mangostana and Archidendron pauciflorum Pericarps for Dye-Sensitized Solar Cell (DSSC) Application. Sains Malaysiana, 2020, 49, 3007-3015.	0.5	1
16	Enhanced Performance of Quantum Dots Sensitized Solar Cell Utilizing Copper Indium Sulfide and Reduced-Graphene Oxide with the Presence of Silver Sulfide. Sains Malaysiana, 2020, 49, 2997-3005.	0.5	2
17	Effect of silver sulphide (Ag<SUB align="right">2S) layer towards the performance of copper indium sulphide (CuInS<SUB align="right">2) quantum dots sensitised solar cell. International Journal of Nanotechnology, 2020, 17, 795.	0.2	0
18	Optoelectronic and morphology properties of perovskite/silicon interface layer for tandem solar cell application. Surface and Interface Analysis, 2020, 52, 422-432.	1.8	6

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19	Environmental performance of window-integrated systems using dye-sensitised solar module technology in Malaysia. Solar Energy, 2019, 187, 379-392.	6.1	15
20	Compatibility between compact and mesoporous TiO2 layers on the optimization of photocurrent density in photoelectrochemical cells. Surfaces and Interfaces, 2019, 17, 100341.	3.0	6
21	Efficient Photoelectrochemical Performance of Î³ Irradiated g-C₃N₄ and Its g-C₃N₄@BiVO₄ Heterojunction for Solar Water Splitting. Journal of Physical Chemistry C, 2019, 123, 9013-9026.	3.1	93
22	Light transmission and internal scattering in pulsed laser-etched partially-transparent silicon wafers. Heliyon, 2019, 5, e02790.	3.2	2
23	A review of graphene based transparent conducting films for use in solar photovoltaic applications. Renewable and Sustainable Energy Reviews, 2019, 99, 83-99.	16.4	83
24	Peningkatan Kecekapan Pemisahan Air Menggunakan g-C3N4 yang Disinar Gama. Sains Malaysiana, 2019, 48, 1129-1135.	0.5	5
25	Enhanced photoelectrochemical performance of Z-scheme g-C3N4/BiVO4 photocatalyst. Applied Catalysis B: Environmental, 2018, 234, 296-310.	20.2	301
26	Effect of Film Thickness on Photoelectrochemical Performance of SnO₂ Prepared via AACVD. Physica Status Solidi (B): Basic Research, 2018, 255, 1700570.	1.5	27
27	Palm-based polyurethane-ionic liquid gel polymer electrolyte for quasi-solid state dye sensitized solar cell. Industrial Crops and Products, 2018, 113, 406-413.	5.2	32
28	Quantum dots processed by SILAR for solar cell applications. Solar Energy, 2018, 163, 256-270.	6.1	56
29	Progress towards highly stable and lead-free perovskite solar cells. Materials for Renewable and Sustainable Energy, 2018, 7, 1.	3.6	31
30	The architecture of the electron transport layer for a perovskite solar cell. Journal of Materials Chemistry C, 2018, 6, 682-712.	5.5	172
31	Application of dyes extracted from Alternanthera dentata leaves and Musa acuminata bracts as natural sensitizers for dye-sensitized solar cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 192, 487-498.	3.9	73
32	Graphitic carbon nitride (g-C₃N₄) electrodes for energy conversion and storage: a review on photoelectrochemical water splitting, solar cells and supercapacitors. Journal of Materials Chemistry A, 2018, 6, 22346-22380.	10.3	244
33	The Effect of Chenodeoxycholic Acid (CDCA) in Mangosteen (Garcinia mangostana) Pericarps Sensitizer for Dye-Sensitized Solar Cell (DSSC). Journal of Physics: Conference Series, 2018, 1083, 012018.	0.4	11
34	Utilization of Natural Dyes from Zingiber officinale Leaves and Clitoria ternatea Flowers to Prepare New Photosensitisers for Dye-Sensitised Solar Cells. International Journal of Electrochemical Science, 2018, 13, 7451-7465.	1.3	22
35	A review of integrated photocatalyst adsorbents for wastewater treatment. Journal of Environmental Chemical Engineering, 2018, 6, 7411-7425.	6.7	196
36	Facile fabrication of graphitic carbon nitride, (g-C3N4) thin film. Journal of Alloys and Compounds, 2018, 769, 130-135.	5.5	60

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37	Prospects of life cycle assessment of renewable energy from solar photovoltaic technologies: A review. Renewable and Sustainable Energy Reviews, 2018, 96, 11-28.	16.4	236
38	Properties of zinc tin oxide thin film by aerosol assisted chemical vapor deposition (AACVD). AIP Conference Proceedings, 2018, , .	0.4	0
39	Simultaneous enhancement in light absorption and charge transportation of bismuth vanadate (BiVO4) photoanode via microwave annealing. Materials Letters, 2018, 233, 67-70.	2.6	31
40	Towards high performance perovskite solar cells: A review of morphological control and HTM development. Applied Materials Today, 2018, 13, 69-82.	4.3	43
41	Effects of Iodide/Triiodide (Iâ€“/I3 â€“) Ratios on Palm Based Polyurethane Polymer Electrolyte for Solid-State Dye-Sensitized Solar Cell. Jurnal Kejuruteraan, 2018, SI1, 63-68.	0.3	6
42	Kajian Elektrolit Polimer berasaskan Getah Asli Terubah Suai (MG49) dalam Sel Suria Terpeka Pewarna. Sains Malaysiana, 2018, 47, 2667-2676.	0.5	3
43	Kebergantungan Suhu dengan Penggunaan Tiub Kuarza Relau ke atas Sel SuriaDwi-Muka. Sains Malaysiana, 2018, 47, 789-795.	0.5	0
44	Extraction, preparation and application of pigments from Cordyline fruticosa and Hylocereus polyrhizus as sensitizers for dye-sensitized solar cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 179, 23-31.	3.9	30
45	Energy levels of natural sensitizers extracted from rengas (Gluta spp.) and mengkulang (Heritiera) Tj ETQq1 1 0.784314 rgBT /Overloc	3.6	7
46	Characterizations of natural dye from garcinia mangostana with graphene oxide (GO) as sensitizer in dye-sensitizer solar cells. AIP Conference Proceedings, 2017, , .	0.4	2
47	Model development of monolithic tandem silicon-perovskite solar cell by SCAPS simulation. AIP Conference Proceedings, 2017, , .	0.4	13
48	Characterization of perovskite layer on various nanostructured silicon wafer. AIP Conference Proceedings, 2017, , .	0.4	2
49	The extraction and absorption study of natural dye from Areca catechu for dye sensitized solar cell application. AIP Conference Proceedings, 2017, , .	0.4	9
50	Effect of temperature on the properties of SnO 2 layer fabricated via AACVD and its application in photoelectrochemical cells and organic photovoltaic devices. Solar Energy, 2017, 158, 474-482.	6.1	45
51	Review on recent performance titanium dioxide for flexible dye sensitized solar cell. , 2017, , .		0
52	In-depth investigation of spin-on doped solar cells with thermally grown oxide passivation. Results in Physics, 2017, 7, 2183-2193.	4.1	2
53	Natural dye extracted from Pandannus amaryllifolius leaves as sensitizer in fabrication of dye-sensitized solar cells. International Journal of Electrochemical Science, 2017, 12, 747-761.	1.3	49
54	Analisis Arus-Voltan bagi Pengubahsuaian Proses Fabrikasi Sel Suria Silikon Jenis-P ke atas Wafer Silikon Jenis-N. Sains Malaysiana, 2017, 46, 1943-1949.	0.5	0

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55	An Efficient Metal-Free Hydrophilic Carbon as a Counter Electrode for Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2016, 2016, 1-7.	2.5	9
56	Prospects and challenges of perovskite type transparent conductive oxides in photovoltaic applications. Part I â€“ Material developments. Solar Energy, 2016, 137, 371-378.	6.1	34
57	A review of organic small molecule-based hole-transporting materials for meso-structured organicâ€“inorganic perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 15788-15822.	10.3	150
58	Optimization of dye extraction from Cordyline fruticosa via response surface methodology to produce a natural sensitizer for dye-sensitized solar cells. Results in Physics, 2016, 6, 520-529.	4.1	15
59	Green economy models and energy policies towards sustainable development in Malaysia: a review. International Journal of Green Economics, 2016, 10, 89.	0.8	5
60	Dye-sensitised solar cells: Development, structure, operation principles, electron kinetics, characterisation, synthesis materials and natural photosensitisers. Renewable and Sustainable Energy Reviews, 2016, 65, 183-213.	16.4	139
61	Prospects and challenges of perovskite type transparent conductive oxides in photovoltaic applications. Part II â€“ Synthesis and deposition. Solar Energy, 2016, 139, 309-317.	6.1	4
62	Heterojunction Cr2O3/CuO:Ni photocathodes for enhanced photoelectrochemical performance. RSC Advances, 2016, 6, 56885-56891.	3.6	25
63	Hydrophilic carbon/TiO2 colloid composite: a potential counter electrode for dye-sensitized solar cells. Journal of Applied Electrochemistry, 2016, 46, 259-266.	2.9	13
64	MODIFICATION OF BSF LAYER IN BIFACIAL SOLAR CELL VIA PHOTOSENSITIZATION OF MOLECULES NANOSTRUCTURE. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
65	Influence of ethylene glycol on efficient photoelectrochemical activity of BiVO₄ photoanode via AACVD. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2910-2914.	1.8	15
66	Carbonaceous Materials and Their Advances as a Counter Electrode in Dyeâ€Sensitized Solar Cells: Challenges and Prospects. ChemSusChem, 2015, 8, 1510-1533.	6.8	77
67	Electrodeposited p-type Co₃O₄ with high photoelectrochemical performance in aqueous medium. RSC Advances, 2015, 5, 36820-36827.	3.6	27
68	Effect of solvents on the extraction of natural pigments and adsorption onto TiO2 for dye-sensitized solar cell applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 138, 130-137.	3.9	103
69	Effect of Solvents on Extraction and Adsorption of Natural Dyes Extracted from Cordyline fruticosa and Hylocereus polyrhizus. Asian Journal of Chemistry, 2014, 26, 6285-6288.	0.3	6
70	The Role of Physical Techniques on the Preparation of Photoanodes for Dye Sensitized Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-19.	2.5	52
71	Malaysian oil palm plantation sector: exploiting renewable energy toward sustainability production. Journal of Cleaner Production, 2014, 65, 9-15.	9.3	36
72	Review on the development of natural dye photosensitizer for dye-sensitized solar cells. Renewable and Sustainable Energy Reviews, 2014, 31, 386-396.	16.4	316

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73	A review of semiconductor materials as sensitizers for quantum dot-sensitized solar cells. Renewable and Sustainable Energy Reviews, 2014, 37, 397-407.	16.4	163
74	The Potential of Solar as Alternative Energy Source for Socio-Economic Wellbeing in Rural Areas, Malaysia. Springer Proceedings in Physics, 2014, , 337-343.	0.2	0
75	Green economy: assessing the greenness of the Malaysian economy. International Journal of Green Economics, 2012, 6, 226.	0.8	4
76	Perspective of Agriculture Wastes Usage as a Resource. Advanced Materials Research, 0, 550-553, 2246-2254.	0.3	3
77	Metal Oxide BiVO₄ as Photoelectrode in Photoelectrochemical Solar Water Oxidation. Solid State Phenomena, 0, 253, 41-58.	0.3	3
78	Properties of Nanostructured Rutile Titanium Dioxide (TiO₂) Thin Film Deposited with Silver Sulfide (Ag₂S) Quantum Dots as Photoanode for Solar Photovoltaic. Solid State Phenomena, 0, 290, 329-335.	0.3	1