Mohd Adib Ibrahim

List of Publications by Year
in descending order

82 papers	2,429 citations	279798 23 h-index	206112 48 g-index
83 all docs	83 docs citations	83 times ranked	3708 citing authors

#	Article	IF	Citations
1	Enhanced photoelectrochemical performance of Z-scheme g-C3N4/BiVO4 photocatalyst. Applied Catalysis B: Environmental, 2018, 234, 296-310.	20.2	301
2	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
3	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
4	The architecture of the electron transport layer for a perovskite solar cell. Journal of Materials Chemistry C, 2018, 6, 682-712.	5.5	172
5	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
6	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
7	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
8	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
9	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
10	Facile fabrication of graphitic carbon nitride, (g-C3N4) thin film. Journal of Alloys and Compounds, 2018, 769, 130-135.	5.5	60
11	Quantum dots processed by SILAR for solar cell applications. Solar Energy, 2018, 163, 256-270.	6.1	56
12	Fabrication of exfoliated graphitic carbon nitride, (g-C3N4) thin film by methanolic dispersion. Journal of Alloys and Compounds, 2020, 818, 152916.	5.5	49
13	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
14	Towards high performance perovskite solar cells: A review of morphological control and HTM development. Applied Materials Today, 2018, 13, 69-82.	4.3	43
15	Electrodeposition of organicâ€“inorganic tri-halide perovskites solar cell. Journal of Power Sources, 2018, 378, 717-731.	7.8	36
16	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
17	Application of graphene in dye and quantum dots sensitized solar cell. Solar Energy, 2016, 137, 531-550.	6.1	32
18	Progress towards highly stable and lead-free perovskite solar cells. Materials for Renewable and Sustainable Energy, 2018, 7, 1.	3.6	31

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19	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
20	Electrodeposited p-type Co₃O₄ with high photoelectrochemical performance in aqueous medium. RSC Advances, 2015, 5, 36820-36827.	3.6	27
21	Effect of Film Thickness on Photoelectrochemical Performance of SnO₂ Prepared via AACVD. Physica Status Solidi (B): Basic Research, 2018, 255, 1700570.	1.5	27
22	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
23	Heterojunction Cr2O3/CuO:Ni photocathodes for enhanced photoelectrochemical performance. RSC Advances, 2016, 6, 56885-56891.	3.6	25
24	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
25	Moving into the domain of perovskite sensitized solar cell. Renewable and Sustainable Energy Reviews, 2017, 72, 907-915.	16.4	20
26	Graphene dispersion as a passivation layer for the enhancement of perovskite solar cell stability. Materials Chemistry and Physics, 2021, 257, 123798.	4.0	17
27	Investigation on size and conductivity of polyaniline nanofiber synthesised by surfactant-free polymerization. Journal of Materials Research and Technology, 2021, 14, 255-261.	5.8	17
28	Fabrication of NiO photoelectrodes by aerosolâ€assisted chemical vapour deposition (AACVD). Physica Status Solidi - Rapid Research Letters, 2014, 8, 982-986.	2.4	16
29	A novel and stable ultraviolet and infrared intensity sensor in impedance/capacitance modes fabricated from degraded CH3NH3PbI3-xClx perovskite materials. Journal of Materials Research and Technology, 2020, 9, 12795-12803.	5.8	16
30	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
31	Environmental performance of window-integrated systems using dye-sensitised solar module technology in Malaysia. Solar Energy, 2019, 187, 379-392.	6.1	15
32	A novel and stable way for energy harvesting from Bi2Te3Se alloy based semitransparent photo-thermoelectric module. Journal of Alloys and Compounds, 2020, 849, 156702.	5.5	14
33	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
34	Model development of monolithic tandem silicon-perovskite solar cell by SCAPS simulation. AIP Conference Proceedings, 2017, , .	0.4	13
35	An overview of coâ€catalysts on metal oxides for photocatalytic water splitting. International Journal of Energy Research, 2022, 46, 11596-11619.	4.5	13
36	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

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37	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
38	Recent Issues and Configuration Factors in Perovskite-Silicon Tandem Solar Cells towards Large Scaling Production. Nanomaterials, 2021, 11, 3186.	4.1	10
39	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
40	Superiority of two-step deposition over one-step deposition for perovskite solar cells processed in high humidity atmosphere. Optical Materials, 2021, 118, 111288.	3.6	9
41	Review of Polymer, Dye-Sensitized, and Hybrid Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-12.	2.5	8
42	Fabrication and Microelectronic Properties of Hybrid Organicâ€“Inorganic (poly(9,9,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (dioc 2020, 10, 7974.	2.5	8
43	Energy levels of natural sensitizers extracted from rengas (Gluta spp.) and mengkulang (Heritiera) Tj ETQq1 1 0.784314 rgBT /Overloc	3.6	7
44	Low Temperature Fabrication of Transparent Conductive Electrode With High Ultraviolet Transmittance Down to Wavelength of 250â€‰nm. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800441.	2.4	7
45	Effect of Cd²⁺Molar Concentration in Cd_xZn_(1â^'x)S Thin Film by Chemical Bath Deposition Technique Using Alternative Sulfur Precursor. ECS Journal of Solid State Science and Technology, 2021, 10, 025009.	1.8	7
46	Effect of Chenodeoxycholic Acid on the Performance of Dye-sensitized Solar Cells utilizing Pinang Palm (Areca catechu) Dye. Sains Malaysiana, 2020, 49, 3017-3028.	0.5	7
47	An Overview of the Strategies for Tin Selenide Advancement in Thermoelectric Application. Micromachines, 2021, 12, 1463.	2.9	7
48	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
49	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
50	Multifunctional organic shockproof flexible sensors based on a composite of nickel phthalocyanine colourant, carbon nanotubes and rubber created with rubbingâ€in technology. Coloration Technology, 2022, 138, 176-183.	1.5	6
51	A Brief Review on Smart Grid Residential Network Schemes. Sains Malaysiana, 2020, 49, 2989-2996.	0.5	6
52	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
53	Complementary processing methods for ZnO nanoparticles. Materials Today: Proceedings, 2019, 7, 646-654.	1.8	5
54	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

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55	Motion-dispensing as an effective strategy for preparing efficient high-humidity processed perovskite solar cells. Journal of Alloys and Compounds, 2021, 854, 157320.	5.5	5
56	Peningkatan Kecekapan Pemisahan Air Menggunakan g-C3N4 yang Disinar Gama. Sains Malaysiana, 2019, 48, 1129-1135.	0.5	5
57	Accelerating the controlled synthesis of WO3 photoanode by modifying aerosol-assisted chemical vapour deposition for photoelectrochemical water splitting. Chemical Engineering Science, 2022, 252, 117294.	3.8	5
58	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
59	Flexible longitudinal and transversal displacement sensors based on a composite of CI Disperse Orange 25 and carbon nanotubes. Coloration Technology, 2022, 138, 90-96.	1.5	4
60	Morphological, Optical and Electrical Analysis of Ag Polymer-Nickel Low Temperature Top Electrode in Silicon Solar Cell for Tandem Application. Silicon, 2022, 14, 12421-12435.	3.3	4
61	Metal Oxide BiVO₄ as Photoelectrode in Photoelectrochemical Solar Water Oxidation. Solid State Phenomena, 0, 253, 41-58.	0.3	3
62	Improving Agâ€TiO ₂ nanocompositesâ€™ current density by TiCl ₄ pretreated on FTO glass for dyeâ€sensitised solar cells. Micro and Nano Letters, 2021, 16, 381-386.	1.3	3
63	Performance-Enhancing Sulfur-Doped TiO2 Photoanodes for Perovskite Solar Cells. Applied Sciences (Switzerland), 2022, 12, 429.	2.5	3
64	Determination of surface recombination velocities of organic monolayers on silicon through Kelvin probe. Applied Physics Letters, 2013, 103, .	3.3	2
65	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
66	Characterization of perovskite layer on various nanostructured silicon wafer. AIP Conference Proceedings, 2017, , .	0.4	2
67	Light transmission and internal scattering in pulsed laser-etched partially-transparent silicon wafers. Heliyon, 2019, 5, e02790.	3.2	2
68	Photodetector based on silicon-graphene heterojunction fabricated through rubbing-in technology. Optik, 2021, 248, 168104.	2.9	2
69	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
70	WTa₃₇O_{95.487} Nanocatalyst for Pollutant Degradation. Journal of Physical Chemistry C, 2021, 125, 27148-27158.	3.1	2
71	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
72	Ambient fabrication of perovskite solar cells through delay-deposition technique. Materials for Renewable and Sustainable Energy, 2021, 10, 1.	3.6	1

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73	CO-SENSITIZATION OF NATURAL SENSITIZERS EXTRACTED FROM RENGAS (Gluta spp.) AND MENGKULANG (Heritiera elata) WOOD WITH RUTHENIUM DYE (N719) TO ENHANCE THE PERFORMANCE OF DYE-SENSITIZED SOLAR CELLS. Malaysian Journal of Analytical Sciences, 2018, 22, .	0.1	1
74	EFFECTS OF DEPOSITION TIME ON OF COBALT SULFIDE THIN FILM ELECTRODE FORMATION. Malaysian Journal of Analytical Sciences, 2018, 22, .	0.1	1
75	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
76	Detailed Analysis of Shallow and Heavily-Doped Emitters for Al-BSF Bifacial Solar Cells. Advanced Materials Research, 0, 896, 459-463.	0.3	0
77	Review on recent performance titanium dioxide for flexible dye sensitized solar cell. , 2017, , .		0
78	Properties of zinc tin oxide thin film by aerosol assisted chemical vapor deposition (AACVD). AIP Conference Proceedings, 2018, , .	0.4	0
79	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
80	MODIFICATION OF BSF LAYER IN BIFACIAL SOLAR CELL VIA PHOTOSENSITIZATION OF MOLECULES NANOSTRUCTURE. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
81	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
82	Kebergantungan Suhu dengan Penggunaan Tiub Kuarza Relau ke atas Sel SuriaDwi-Muka. Sains Malaysiana, 2018, 47, 789-795.	0.5	0