

Edy Herianto Majlan

List of Publications by Year in descending order

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81
papers

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185998

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docs citations

81
times ranked

4585
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of high-temperature proton exchange membrane fuel cell (HT-PEMFC) system. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9293-9314.	3.8	463
2	PEM fuel cell system control: A review. <i>Renewable Energy</i> , 2017, 113, 620-638.	4.3	444
3	A review on energy management system for fuel cell hybrid electric vehicle: Issues and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 802-814.	8.2	359
4	Electrode for proton exchange membrane fuel cells: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 89, 117-134.	8.2	283
5	Optimization of energy management system for fuel-cell hybrid electric vehicles: Issues and recommendations. <i>Applied Energy</i> , 2018, 228, 2061-2079.	5.1	262
6	Recent developments in materials for aluminum-air batteries: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 32, 1-20.	2.9	224
7	Coating of stainless steel and titanium bipolar plates for anticorrosion in PEMFC: A review. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9135-9148.	3.8	211
8	Recent progress in nitrogen-doped carbon and its composites as electrocatalysts for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9370-9386.	3.8	157
9	Passive direct methanol fuel cells for portable electronic devices. <i>Applied Energy</i> , 2011, 88, 1681-1689.	5.1	142
10	Overview on nanostructured membrane in fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3187-3205.	3.8	129
11	Overview biohydrogen technologies and application in fuel cell technology. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 66, 137-162.	8.2	121
12	Acid doped polybenzimidazoles based membrane electrode assembly for high temperature proton exchange membrane fuel cell: A review. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9156-9179.	3.8	116
13	Effects of flow field design on water management and reactant distribution in PEMFC: a review. <i>Ionics</i> , 2016, 22, 301-316.	1.2	105
14	Nafion/Pd-SiO ₂ nanofiber composite membranes for direct methanol fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9474-9483.	3.8	96
15	Hydrogen purification using compact pressure swing adsorption system for fuel cell. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2771-2777.	3.8	81
16	Numerical analysis of modified parallel flow field designs for fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9210-9218.	3.8	81
17	Performance of direct methanol fuel cell with a palladium-silica nanofibre/Nafion composite membrane. <i>Energy Conversion and Management</i> , 2013, 75, 718-726.	4.4	53
18	Bimetallic complexes in artificial photosynthesis for hydrogen production: A review. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 3066-3087.	3.8	51

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19	Water transport characteristics of a PEM fuel cell at various operating pressures and temperatures. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9401-9408.	3.8	51
20	Comparison of catalyst-coated membranes and catalyst-coated substrate for PEMFC membrane electrode assembly: A review. <i>Chinese Journal of Chemical Engineering</i> , 2021, 33, 1-16.	1.7	50
21	Nitrogen-containing carbon nanotubes as cathodic catalysts for proton exchange membrane fuel cells. <i>Diamond and Related Materials</i> , 2012, 22, 12-22.	1.8	47
22	Influence of nitrogen doping on carbon nanotubes towards the structure, composition and oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9421-9430.	3.8	46
23	Effects of temperature and backpressure on the performance degradation of MEA in PEMFC. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 10960-10968.	3.8	41
24	Three-dimensional study of stack on the performance of the proton exchange membrane fuel cell. <i>Energy</i> , 2019, 169, 338-343.	4.5	39
25	Effect of ZnO Filler on PVA-Alkaline Solid Polymer Electrolyte for Aluminum-Air Battery Applications. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2483-A2492.	1.3	34
26	The Impact of Loading and Temperature on the Oxygen Reduction Reaction at Nitrogen-doped Carbon Nanotubes in Alkaline Medium. <i>Electrochimica Acta</i> , 2014, 129, 47-54.	2.6	33
27	Numerical investigation of the effect of three-dimensional modified parallel flow field designs on proton exchange membrane fuel cell performance. <i>Chemical Engineering Science</i> , 2020, 217, 115499.	1.9	31
28	Influence of sintering temperature on the power density of samarium-doped-ceria carbonate electrolyte composites for low-temperature solid oxide fuel cells. <i>Ceramics International</i> , 2013, 39, 5813-5820.	2.3	30
29	Water balance for the design of a PEM fuel cell system. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9409-9420.	3.8	30
30	Fibre orientation effect on polypropylene/milled carbon fiber composites in the presence of carbon nanotubes or graphene as a secondary filler: Application on PEM fuel cell bipolar plate. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30618-30626.	3.8	29
31	The design and development of an HT-PEMFC test cell and test station. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30763-30771.	3.8	25
32	Effect of sintering temperature on surface morphology and electrical properties of samarium-doped ceria carbonate for solid oxide fuel cells. <i>Ceramics International</i> , 2015, 41, 1323-1332.	2.3	24
33	Impregnated carbonâ€‘ionic liquid as innovative adsorbent for H ₂ /CO ₂ separation from biohydrogen. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 3414-3424.	3.8	24
34	Fabrication of multi-filler MCF/MWCNT/SG-based bipolar plates. <i>Ceramics International</i> , 2019, 45, 7413-7418.	2.3	24
35	Physiochemical Characteristics of Solid Electrolyte Membranes for High-Temperature PEM Fuel Cell. <i>International Journal of Electrochemical Science</i> , 2019, 14, 371-386.	0.5	21
36	Nobleâ€‘free oxygen reduction reaction catalyst supported on Sengon wood (<i>Paraserianthes</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 <i>Energy Research</i> , 2020, 44, 1761-1774.	2.2	21

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37	Numerical analysis of flow distribution behavior in a proton exchange membrane fuel cell. Heliyon, 2018, 4, e00845.	1.4	20
38	Characterization of electrodes and performance tests on MEAs with varying platinum content and under various operational conditions. International Journal of Hydrogen Energy, 2013, 38, 9431-9437.	3.8	18
39	Sengon wood-derived RGO supported Fe-based electrocatalyst with stabilized graphitic N-bond for oxygen reduction reaction in acidic medium. International Journal of Hydrogen Energy, 2020, 45, 23237-23253.	3.8	17
40	Fabrication of thin Ag-YSB composite cathode film for intermediate-temperature solid oxide fuel cells. Composites Part B: Engineering, 2014, 58, 193-198.	5.9	13
41	Effect of PTFE Content and Sintering Temperature on the Properties of a Fuel Cell Electrode Backing Layer. Journal of Fuel Cell Science and Technology, 2014, 11, .	0.8	13
42	Fabrication of Dense Composite Ceramic Electrolyte SDC-(Li/Na) ₂ CO ₃ . Key Engineering Materials, 0, 447-448, 666-670.	0.4	9
43	Porous NiO-SDC Carbonates Composite Anode for LT-SOFC Applications Produced by Pressureless Sintering. Applied Mechanics and Materials, 2011, 52-54, 488-493.	0.2	9
44	Fabrication of Porous LSCF-SDC Carbonates Composite Cathode for Solid Oxide Fuel Cell (SOFC) Applications. Key Engineering Materials, 0, 471-472, 179-184.	0.4	9
45	Effects of Die Configuration on the Electrical Conductivity of Polypropylene Reinforced Milled Carbon Fibers: An Application on a Bipolar Plate. Polymers, 2018, 10, 558.	2.0	9
46	Temperature Effects on Stainless Steel 316L Corrosion in the Environment of Sulphuric Acid (H ₂ SO ₄). IOP Conference Series: Materials Science and Engineering, 2018, 343, 012016.	0.3	9
47	Electrochemical and microstructural characteristics of nanoperovskite oxides Ba _{0.2} Sr _{0.8} Co _{0.8} Fe _{0.2} O _{3-δ} (BSCF) for solid oxide fuel cells. Ceramics International, 2013, 39, 439-444.	2.3	8
48	Mathematical modelling and simulation on the adsorption of Hydrogen Sulfide (H ₂ S) gas. IOP Conference Series: Materials Science and Engineering, 2017, 206, 012069.	0.3	7
49	Ionic liquid-impregnated activated carbon for biohydrogen purification in an adsorption unit. IOP Conference Series: Materials Science and Engineering, 2017, 206, 012071.	0.3	6
50	Preliminary study on aluminum-air battery applying disposable soft drink cans and Arabic gum polymer. IOP Conference Series: Materials Science and Engineering, 2017, 237, 012039.	0.3	6
51	Review on Serpentine Flow Field Design for PEM Fuel Cell System. Key Engineering Materials, 0, 447-448, 559-563.	0.4	5
52	POLYSULFONE COMPOSED OF POLYANILINE NANOPARTICLES AS NANOCOMPOSITE PROTON EXCHANGE MEMBRANE IN MICROBIAL FUEL CELL. American Journal of Biochemistry and Biotechnology, 2012, 8, 311-319.	0.1	5
53	Electrochemical properties of a PEMFC operating with saturated hydrogen and dry air. International Journal of Hydrogen Energy, 2013, 38, 9395-9400.	3.8	5
54	Reactant Control System for Proton Exchange Membrane Fuel Cell. Procedia Engineering, 2016, 148, 615-620.	1.2	5

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55	Operating Temperature Effects on Water Transport Behavior in a Single Cell PEMFC. Applied Mechanics and Materials, 0, 52-54, 1153-1158.	0.2	4
56	Hydrogen rate manipulation of proton exchange membrane fuel cell (PEMFC) stack using feedback control system. , 2012, , .		4
57	Effect of lithium hexafluorophosphate LiPF ₆ and 1-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide [Bmim][TFSI] immobilized in poly(2-hydroxyethyl methacrylate) PHEMA. Polymer Bulletin, 2019, 76, 3693-3707.	1.7	4
58	Simulation of PEMFC Stack for Portable Power Generator Application. Jurnal Kejuruteraan, 2018, SI1, 1-10.	0.2	4
59	Density-Functional Theory of O ₂ Physical Adsorption on sp ³ and sp ² ; Hybridized Nitrogen-Doped CNT Surfaces for Fuel Cell Electrode. Advanced Materials Research, 0, 233-235, 17-22.	0.3	3
60	Direct synthesis of nitrogen-containing carbon nanotubes on carbon paper for fuel cell electrode. , 2012, , .		3
61	Synthesis of palladium-doped silica nanofibers by sol-gel reaction and electrospinning process. , 2012, , .		3
62	Preparation and characterization of low temperature PTFE-Nafion composite membranes for hydrogen production. International Journal of Hydrogen Energy, 2015, 40, 10072-10080.	3.8	3
63	Study Effect of Stress in the Electrical Contact Resistance of Bipolar Plate and Membrane Electrode Assembly in Proton Exchange Membrane Fuel Cell: A Review. Key Engineering Materials, 2010, 447-448, 775-779.	0.4	2
64	Influence of Iron Oxide Nano Particles on Electrospun Poly (Vinylidene Fluoride)-Based Carbon Nanofibers on Hydrogen Storage. Key Engineering Materials, 0, 471-472, 1184-1189.	0.4	2
65	Effect of Nickel Composition and Preparation Method for Production of Hydrogen via Glycerol Steam Reforming. Key Engineering Materials, 0, 471-472, 1046-1051.	0.4	2
66	PROTON EXCHANGE MEMBRANE FUEL CELL/SUPERCAPASITOR HYBRID POWER MANAGEMENT SYSTEM FOR A GOLF CART. Malaysian Journal of Analytical Sciences, 2016, 20, 931-945.	0.2	2
67	Stress Analysis of Proton Exchange Membrane Fuel Cell. Applied Mechanics and Materials, 0, 52-54, 875-880.	0.2	1
68	Effect of Calcinations on Morphology of Electrospun Copper and Copper Oxide Nanofibers. Applied Mechanics and Materials, 2011, 52-54, 1884-1889.	0.2	1
69	Doping of Palladium in Silica Nanofibers via Electrospinning and Sol-Gel Synthesize as Hydrogen Storage Material. Key Engineering Materials, 0, 471-472, 1040-1045.	0.4	1
70	Effect of nitrogen-doping concentration in carbon nanotubes on cathodic performance for proton exchange membrane fuel cell. , 2012, , .		1
71	Measurement of hydrogen ion conductivity through proton exchange membrane. , 2015, , .		1
72	High performance iron-based oxygen reduction catalyst supported on sengon wood-derived reduced graphene oxide in acidic medium. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012060.	0.2	1

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73	Kesan Pemendapan Elektroforesis Gam Arab terhadap Halaju Kakisan pada Aluminium 5052. Sains Malaysiana, 2019, 48, 401-406.	0.3	1
74	Preliminary Study of Poly(Tetrahydrofurfuryl Acrylate) Thin Film as a Potential Material of Ion Selective Electrodes: The Case of Nitrate Ion-Selective Electrode. Indonesian Journal of Chemistry, 2020, 20, 645.	0.3	1
75	Design Models of Polymer Electrolyte Membrane Fuel Cell System. Key Engineering Materials, 0, 447-448, 554-558.	0.4	0
76	Investigation of Phase Transformation and Structure Evolution of Electrospun Copper Oxide Nanofibers during Thermal Annealing. Key Engineering Materials, 0, 471-472, 792-797.	0.4	0
77	AN IMPROVED MULTIDEVICE INTERLEAVED BOOST CONVERTER WITH NOVEL MULTIPLEX CONTROLLER FOR FUEL CELL. Jurnal Teknologi (Sciences and Engineering), 2016, 79, .	0.3	0
78	STUDY OF HYDROGEN CONSUMPTION BY CONTROL SYSTEM IN PROTON EXCHANGE MEMBRANE FUEL CELL. Malaysian Journal of Analytical Sciences, 2016, 20, 901-912.	0.2	0
79	ENERGY MANAGEMENT STRATEGY FOR A FUEL CELL/ULTRACAPASITOR/BATTERY HYBRID SYSTEM FOR PORTABLE APPLICATIONS. Malaysian Journal of Analytical Sciences, 2016, 20, 955-964.	0.2	0
80	Effect of Arabic Gum Electrophoresis Desposition on Corrosion of SS316L in Acidic. Jurnal Kejuruteraan, 2018, S11, 59-64.	0.2	0
81	Finite Element Analysis for Stress Distribution in a Proton Exchange Membrane Fuel Cell Stack. International Journal of Integrated Engineering, 2019, 11, .	0.2	0