Edy Herianto Majlan

List of Publications by Year in descending order

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81 papers

4,195 citations

28 h-index 60 g-index

81 all docs

81 docs citations

81 times ranked 4585 citing authors

#	Article	IF	CITATIONS
1	Comparison of catalyst-coated membranes and catalyst-coated substrate for PEMFC membrane electrode assembly: A review. Chinese Journal of Chemical Engineering, 2021, 33, 1-16.	1.7	50
2	Nobleâ€free oxygen reduction reaction catalyst supported on Sengon wood (<i>Paraserianthes) Tj ETQq0 0 0 rg Energy Research, 2020, 44, 1761-1774.</i>	gBT /Overl 2.2	ock 10 Tf 50 7 21
3	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
4	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
5	Numerical investigation of the effect of three-dimensional modified parallel flow field designs on proton exchange membrane fuel cell performance. Chemical Engineering Science, 2020, 217, 115499.	1.9	31
6	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
7	Impregnated carbon–ionic liquid as innovative adsorbent for H2/CO2 separation from biohydrogen. International Journal of Hydrogen Energy, 2019, 44, 3414-3424.	3.8	24
8	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. International Journal of Hydrogen Energy, 2019, 44, 30618-30626.	3.8	29
9	Physiochemical Characteristics of Solid Electrolyte Membranes for High-Temperature PEM Fuel Cell. International Journal of Electrochemical Science, 2019, 14, 371-386.	0.5	21
10	Three-dimensional study of stack on the performance of the proton exchange membrane fuel cell. Energy, 2019, 169, 338-343.	4.5	39
11	Fabrication of multi-filler MCF/MWCNT/SG-based bipolar plates. Ceramics International, 2019, 45, 7413-7418.	2.3	24
12	Effect of lithium hexafluorophosphate LiPF6 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
13	The design and development of an HT-PEMFC test cell and test station. International Journal of Hydrogen Energy, 2019, 44, 30763-30771.	3.8	25
14	Kesan Pemendapan Elektroforesis Gam Arab terhadap Halaju Kakisan pada Aluminium 5052. Sains Malaysiana, 2019, 48, 401-406.	0.3	1
15	Finite Element Analysis for Stress Distribution in a Proton Exchange Membrane Fuel Cell Stack. International Journal of Integrated Engineering, 2019, 11, .	0.2	O
16	Electrode for proton exchange membrane fuel cells: A review. Renewable and Sustainable Energy Reviews, 2018, 89, 117-134.	8.2	283
17	Numerical analysis of flow distribution behavior in a proton exchange membrane fuel cell. Heliyon, 2018, 4, e00845.	1.4	20
18	Optimization of energy management system for fuel-cell hybrid electric vehicles: Issues and recommendations. Applied Energy, 2018, 228, 2061-2079.	5.1	262

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19	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
20	Temperature Effects on Stainless Steel 316L Corrosion in the Environment of Sulphuric Acid (H2SO4). IOP Conference Series: Materials Science and Engineering, 2018, 343, 012016.	0.3	9
21	Effect of ZnO Filler on PVA-Alkaline Solid Polymer Electrolyte for Aluminum-Air Battery Applications. Journal of the Electrochemical Society, 2018, 165, A2483-A2492.	1.3	34
22	Simulation of PEMFC Stack for Portable Power Generator Application. Jurnal Kejuruteraan, 2018, SI1, 1-10.	0.2	4
23	Effect of Arabic Gum Electrophoresis Desposition on Corrosion of SS316L in Acidic. Jurnal Kejuruteraan, 2018, SI1, 59-64.	0.2	0
24	Numerical analysis of modified parallel flow field designs for fuel cells. International Journal of Hydrogen Energy, 2017, 42, 9210-9218.	3.8	81
25	Acid doped polybenzimidazoles based membrane electrode assembly for high temperature proton exchange membrane fuel cell: A review. International Journal of Hydrogen Energy, 2017, 42, 9156-9179.	3.8	116
26	PEM fuel cell system control: A review. Renewable Energy, 2017, 113, 620-638.	4.3	444
27	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
28	Coating of stainless steel and titanium bipolar plates for anticorrosion in PEMFC: A review. International Journal of Hydrogen Energy, 2017, 42, 9135-9148.	3.8	211
29	A review of high-temperature proton exchange membrane fuel cell (HT-PEMFC) system. International Journal of Hydrogen Energy, 2017, 42, 9293-9314.	3.8	463
30	lonic liquid-impregnated activated carbon for biohydrogen purification in an adsorption unit. IOP Conference Series: Materials Science and Engineering, 2017, 206, 012071.	0.3	6
31	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
32	AN IMPROVED MULTIDEVICE INTERLEAVED BOOST CONVERTER WITH NOVEL MULTIPLEX CONTROLLER FOR FUEL CELL. Jurnal Teknologi (Sciences and Engineering), 2016, 79, .	0.3	0
33	Reactant Control System for Proton Exchange Membrane Fuel Cell. Procedia Engineering, 2016, 148, 615-620.	1.2	5
34	Overview biohydrogen technologies and application in fuel cell technology. Renewable and Sustainable Energy Reviews, 2016, 66, 137-162.	8.2	121
35	Effects of flow field design on water management and reactant distribution in PEMFC: a review. lonics, 2016, 22, 301-316.	1.2	105
36	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

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37	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
38	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
39	Measurement of hydrogen ion conductivity through proton exchange membrane. , 2015, , .		1
40	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
41	Effects of temperature and backpressure on the performance degradation of MEA in PEMFC. International Journal of Hydrogen Energy, 2015, 40, 10960-10968.	3.8	41
42	Recent developments in materials for aluminum–air batteries: A review. Journal of Industrial and Engineering Chemistry, 2015, 32, 1-20.	2.9	224
43	A review on energy management system for fuel cell hybrid electric vehicle: Issues and challenges. Renewable and Sustainable Energy Reviews, 2015, 52, 802-814.	8.2	359
44	Effect of sintering temperature on surface morphology and electrical properties of samarium-doped ceria carbonate for solid oxide fuel cells. Ceramics International, 2015, 41, 1323-1332.	2.3	24
45	The Impact of Loading and Temperature on the Oxygen Reduction Reaction at Nitrogen-doped Carbon Nanotubes in Alkaline Medium. Electrochimica Acta, 2014, 129, 47-54.	2.6	33
46	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
47	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
48	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
49	Nafion/Pd–SiO2 nanofiber composite membranes for direct methanol fuel cell applications. International Journal of Hydrogen Energy, 2013, 38, 9474-9483.	3.8	96
50	Electrochemical properties of a PEMFC operating with saturated hydrogen and dry air. International Journal of Hydrogen Energy, 2013, 38, 9395-9400.	3.8	5
51	Electrochemical and microstructural characteristics of nanoperovskite oxides Ba0.2Sr0.8Co0.8Fe0.2O3â^δ (BSCF) for solid oxide fuel cells. Ceramics International, 2013, 39, 439-444.	2.3	8
52	Influence of nitrogen doping on carbon nanotubes towards the structure, composition and oxygen reduction reaction. International Journal of Hydrogen Energy, 2013, 38, 9421-9430.	3.8	46
53	Influence of sintering temperature on the power density of samarium-doped-ceria carbonate electrolyte composites for low-temperature solid oxide fuel cells. Ceramics International, 2013, 39, 5813-5820.	2.3	30
54	Water balance for the design of a PEM fuel cell system. International Journal of Hydrogen Energy, 2013, 38, 9409-9420.	3.8	30

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55	Recent progress in nitrogen-doped carbon and its composites as electrocatalysts for fuel cell applications. International Journal of Hydrogen Energy, 2013, 38, 9370-9386.	3.8	157
56	Water transport characteristics of a PEM fuel cell at various operating pressures and temperatures. International Journal of Hydrogen Energy, 2013, 38, 9401-9408.	3.8	51
57	Performance of direct methanol fuel cell with a palladium–silica nanofibre/Nafion composite membrane. Energy Conversion and Management, 2013, 75, 718-726.	4.4	53
58	Direct synthesis of nitrogen-containing carbon nanotubes on carbon paper for fuel cell electrode. , 2012, , .		3
59	Nitrogen-containing carbon nanotubes as cathodic catalysts for proton exchange membrane fuel cells. Diamond and Related Materials, 2012, 22, 12-22.	1.8	47
60	Effect of nitrogen-doping concentration in carbon nanotubes on cathodic performance for proton exchange membrane fuel cell., 2012,,.		1
61	Hydrogen rate manipulation of proton exchange membrane fuel cell (PEMFC) stack using feedback control system. , 2012, , .		4
62	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
63	Synthesis of palladium-doped silica nanofibers by sol-gel reaction and electrospinning process. , 2012, , .		3
64	Bimetallic complexes in artificial photosynthesis for hydrogen production: A review. International Journal of Hydrogen Energy, 2012, 37, 3066-3087.	3.8	51
65	Passive direct methanol fuel cells for portable electronic devices. Applied Energy, 2011, 88, 1681-1689.	5.1	142
66	Overview on nanostructured membrane in fuel cell applications. International Journal of Hydrogen Energy, 2011, 36, 3187-3205.	3.8	129
67	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
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	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
70	Hydrogen purification using compact pressure swing adsorption system for fuel cell. International Journal of Hydrogen Energy, 2009, 34, 2771-2777.	3.8	81
71	Review on Serpentine Flow Field Design for PEM Fuel Cell System. Key Engineering Materials, 0, 447-448, 559-563.	0.4	5
72	Design Models of Polymer Electrolyte Membrane Fuel Cell System. Key Engineering Materials, 0, 447-448, 554-558.	0.4	0

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73	Fabrication of Dense Composite Ceramic Electrolyte SDC-(Li/Na) ₂ CO ₃ . Key Engineering Materials, 0, 447-448, 666-670.	0.4	9
74	Influence of Iron Oxide Nano Particles on Electrospun Poly (Vinylidene Fluride)-Based Carbon Nanofibers on Hydrogen Storage. Key Engineering Materials, 0, 471-472, 1184-1189.	0.4	2
75	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
76	Stress Analysis of Proton Exchange Membrane Fuel Cell. Applied Mechanics and Materials, 0, 52-54, 875-880.	0.2	1
77	Operating Temperature Effects on Water Transport Behavior in a Single Cell PEMFC. Applied Mechanics and Materials, 0, 52-54, 1153-1158.	0.2	4
78	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
79	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	O
80	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
81	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