

Wan Ramli Wan Daud

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.

309 papers	12,501 citations	59 h-index	101 g-index
346 ext. papers	14,294 ext. citations	5.3 avg, IF	6.75 L-index

#	Paper	IF	Citations
309	Improvement of microbial fuel cell performance using novel kaolin earthenware membrane coated with a polybenzimidazole layer. <i>Energy Science and Engineering</i> , 2021 , 9, 2342	3.4	2
308	How Ready is Renewable Energy? A Review Paper on Educational Materials and Reports Available for the Teaching of Hydrogen Fuel Cells in Schools. <i>Advances in Science, Technology and Engineering Systems</i> , 2021 , 6, 1-11	0.3	1
307	Physicochemical properties of surface modified ZnFe ₂ O ₄ nanocomposite incorporated with bio-templated kapok fiber for photoelectrochemical application. <i>Surface and Interface Analysis</i> , 2021 , 53, 637	1.5	
306	A comprehensive review of MXenes as catalyst supports for the oxygen reduction reaction in fuel cells. <i>International Journal of Energy Research</i> , 2021 , 45, 15760-15782	4.5	13
305	Reduced graphene oxide as protective material on cuprous oxide nanowire; the challenges and proposal for improvement in photoelectrochemical application. <i>Surface and Coatings Technology</i> , 2021 , 416, 127127	4.4	0
304	Modeling of supercritical fluid extraction by enhancement factor of cosolvent mixtures. <i>Separation Science and Technology</i> , 2021 , 56, 1290-1302	2.5	2
303	Pushing microbial desalination cells towards field application: Prevailing challenges, potential mitigation strategies, and future prospects. <i>Science of the Total Environment</i> , 2021 , 759, 143485	10.2	12
302	Modelling and optimisation of oil palm biomass value chains and the environment-food-energy-water nexus in peninsular Malaysia. <i>Biomass and Bioenergy</i> , 2021 , 144, 105912	5.3	6
301	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	3.2	11
300	Feasibility of Ni/Ti and Ni/GF cathodes in microbial electrolysis cells for hydrogen production from fermentation effluent: A step toward real application. <i>International Journal of Energy Research</i> , 2020 , 44, 7464-7476	4.5	4
299	Low-cost novel clay earthenware as separator in microbial electrochemical technology for power output improvement. <i>Bioprocess and Biosystems Engineering</i> , 2020 , 43, 1369-1379	3.7	17
298	Performance of nickel-iron foam (Ni-Fe) cathode in bio-electrochemical system for hydrogen production from effluent of glucose fermentation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020 , 260, 114613	3.1	1
297	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	4.4	12
296	Effects of temperature on the chemical composition of tars produced from the gasification of coconut and palm kernel shells using downdraft fixed-bed reactor. <i>Fuel</i> , 2020 , 265, 116910	7.1	6
295	Impact of applied cell voltage on the performance of a microbial electrolysis cell fully catalysed by microorganisms. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 2557-2568	6.7	24
294	Incorporation of silver graphene oxide and graphene oxide nanoparticles in sulfonated polyether ether ketone membrane for power generation in microbial fuel cell. <i>Journal of Power Sources</i> , 2020 , 449, 227490	8.9	30
293	Optimization of oil palm empty fruit bunches value chain in Peninsular Malaysia. <i>Food and Bioproducts Processing</i> , 2020 , 119, 179-194	4.9	16

292	Sulfonated graphene oxide as an inorganic filler in promoting the properties of a polybenzimidazole membrane as a high temperature proton exchange membrane. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 27510-27526	6.7	17
291	Influences of crosslinked carboxylic acid monomers on the proton conduction characteristics of chitosan/SPVA composite membranes. <i>Polymer</i> , 2020 , 203, 122782	3.9	7
290	Effect of various Fe/Co ratios and annealing temperatures on a Fe/Co catalyst supported with nitrogen-doped reduced graphene oxide towards the oxygen reduction reaction. <i>Journal of Alloys and Compounds</i> , 2020 , 816, 152573	5.7	16
289	Development of Poly(Vinyl Alcohol)-Based Polymers as Proton Exchange Membranes and Challenges in Fuel Cell Application: A Review. <i>Polymer Reviews</i> , 2020 , 60, 171-202	14	48
288	Characterization of tar formation during high temperature gasification of different chemical compositions in biomass. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 268, 012142	0.3	1
287	Development of optimisation model for direct methanol fuel cells via cell integrated network. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30606-30617	6.7	4
286	Can electrochemically active biofilm protect stainless steel used as electrodes in bioelectrochemical systems in a similar way as galvanic corrosion protection?. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30512-30523	6.7	7
285	Effect of particle size and temperature on gasification performance of coconut and palm kernel shells in downdraft fixed-bed reactor. <i>Energy</i> , 2019 , 175, 931-940	7.9	24
284	Additives in proton exchange membranes for low- and high-temperature fuel cell applications: A review. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 6116-6135	6.7	120
283	Well connection optimization in integrated subsurface and surface facilities: an industrial case study. <i>Journal of Petroleum Exploration and Production</i> , 2019 , 9, 2921-2926	2.2	1
282	Three-dimensional study of stack on the performance of the proton exchange membrane fuel cell. <i>Energy</i> , 2019 , 169, 338-343	7.9	16
281	A comparison of long-term fouling performance by zirconia ceramic filter and cation exchange in microbial fuel cells. <i>International Biodeterioration and Biodegradation</i> , 2019 , 136, 63-70	4.8	22
280	Effect of lithium hexafluorophosphate LiPF ₆ and 1-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide [Bmim][TFSI] immobilized in poly(2-hydroxyethyl methacrylate) PHEMA. <i>Polymer Bulletin</i> , 2019 , 76, 3693-3707	2.4	2
279	Clean hydrogen production in a full biological microbial electrolysis cell. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30524-30531	6.7	43
278	The design and development of an HT-PEMFC test cell and test station. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30763-30771	6.7	7
277	Electrode for proton exchange membrane fuel cells: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 89, 117-134	16.2	162
276	Increasing the proton conductivity of sulfonated polyether ether ketone by incorporating graphene oxide: Morphology effect on proton dynamics. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 035201	1.4	2
275	Thermo-electrical performance of PEM fuel cell using Al ₂ O ₃ nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 119, 460-471	4.9	32

274	Performance of titanium–nickel (Ti/Ni) and graphite felt-nickel (GF/Ni) electrodeposited by Ni as alternative cathodes for microbial fuel cells. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018 , 89, 67-76	5.3	18
273	Carbon and non-carbon support materials for platinum-based catalysts in fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 7823-7854	6.7	134
272	Development of 2D multiphase non-isothermal mass transfer model for DMFC system. <i>Energy</i> , 2018 , 152, 263-276	7.9	10
271	Effect of dynamic load on the temperature profiles and cooling response time of a proton exchange membrane fuel cell. <i>Journal of the Energy Institute</i> , 2018 , 91, 349-357	5.7	17
270	Comparison of performance and ionic concentration gradient of two-chamber microbial fuel cell using ceramic membrane (CM) and cation exchange membrane (CEM) as separators. <i>Electrochimica Acta</i> , 2018 , 259, 365-376	6.7	42
269	Optimization of energy management system for fuel-cell hybrid electric vehicles: Issues and recommendations. <i>Applied Energy</i> , 2018 , 228, 2061-2079	10.7	150
268	Facile preparation of ultra-low Pt loading graphene-immobilized electrode for methanol oxidation reaction. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 16005-16014	6.7	11
267	Temperature Effects on Stainless Steel 316L Corrosion in the Environment of Sulphuric Acid (H ₂ SO ₄). <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 343, 012016	0.4	6
266	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	3.9	24
265	Simultaneous organics, sulphate and salt removal in a microbial desalination cell with an insight into microbial communities. <i>Desalination</i> , 2018 , 445, 204-212	10.3	26
264	Cosolvent Selection for Supercritical Fluid Extraction (Sfe) of Bioactive Compounds from <i>Orthosiphon stamineus</i> 2018 , 47, 1741-1747		8
263	Numerical analysis of flow distribution behavior in a proton exchange membrane fuel cell. <i>Heliyon</i> , 2018 , 4, e00845	3.6	11
262	Effect of Modified Natural Filler O-Methylene Phosphonic κ -Carrageenan on Chitosan-Based Polymer Electrolytes. <i>Energies</i> , 2018 , 11, 1910	3.1	6
261	Effects of Applied Potential and Reactants to Hydrogen-Producing Biocathode in a Microbial Electrolysis Cell. <i>Frontiers in Chemistry</i> , 2018 , 6, 318	5	15
260	The effect of varying N/C ratios of nitrogen precursors during non-metal graphene catalyst synthesis. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9069-9076	6.7	12
259	Numerical analysis of modified parallel flow field designs for fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9210-9218	6.7	49
258	Assessment of immobilized cell reactor and microbial fuel cell for simultaneous cheese whey treatment and lactic acid/electricity production. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9107-9115	6.7	22
257	Enhancing methanol oxidation with a TiO ₂ -modified semiconductor as a photo-catalyst. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 8986-8996	6.7	12

256	Production of hydrogen by <i>Enterobacter aerogenes</i> in an immobilized cell reactor. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9024-9030	6.7	13
255	PEM fuel cell system control: A review. <i>Renewable Energy</i> , 2017 , 113, 620-638	8.1	236
254	Bioanode as a limiting factor to biocathode performance in microbial electrolysis cells. <i>Bioresource Technology</i> , 2017 , 238, 313-324	11	40
253	Review on microstructure modelling of a gas diffusion layer for proton exchange membrane fuel cells. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 77, 1001-1009	16.2	63
252	Synthesis and characterization of modified Earrageenan for enhanced proton conductivity as polymer electrolyte membrane. <i>PLoS ONE</i> , 2017 , 12, e0185313	3.7	32
251	How Ready is Renewable Energy? A Review on Renewable Energy and Fuel Cell Teaching in Schools 2017 ,		1
250	Immobilized mixed-culture reactor (IMcR) for hydrogen and methane production from glucose. <i>Energy</i> , 2017 , 139, 1188-1196	7.9	15
249	A comprehensive study on development of a biocathode for cleaner production of hydrogen in a microbial electrolysis cell. <i>Journal of Cleaner Production</i> , 2017 , 164, 1135-1144	10.3	30
248	Screen-printing inks for the fabrication of solid oxide fuel cell films: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 75, 426-439	16.2	68
247	Assessment of recirculation batch mode of operation in bioelectrochemical system; a way forward for cleaner production of energy and waste treatment. <i>Journal of Cleaner Production</i> , 2017 , 142, 2544-2555	10.3	25
246	Performance and stability of single and 6-cell stack passive direct methanol fuel cell (DMFC) for long-term operation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9230-9242	6.7	42
245	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	6.7	126
244	A review of high-temperature proton exchange membrane fuel cell (HT-PEMFC) system. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9293-9314	6.7	287
243	Morphology Effect on Proton Dynamics in Nafion [®] 117 and Sulfonated Polyether Ether Ketone. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 094803	1.5	1
242	Synthesis of silver/nitrogen-doped reduced graphene oxide through a one-step thermal solid-state reaction for oxygen reduction in an alkaline medium. <i>Journal of Power Sources</i> , 2016 , 324, 412-420	8.9	38
241	Electrochemical kinetic and mass transfer model for direct ethanol alkaline fuel cell (DEAFC). <i>Journal of Power Sources</i> , 2016 , 320, 111-119	8.9	15
240	The impact of electrochemical reduction potentials on the electrocatalytic activity of graphene oxide toward the oxygen reduction reaction in an alkaline medium. <i>Electrochimica Acta</i> , 2016 , 199, 194-203	6.7	25
239	Treatment of two different water resources in desalination and microbial fuel cell processes by poly sulfone/Sulfonated poly ether ether ketone hybrid membrane. <i>Energy</i> , 2016 , 96, 303-313	7.9	28

- 238 Effects of flow field design on water management and reactant distribution in PEMFC: a review. *Ionics*, **2016**, 22, 301-316 2.7 63
- 237 Carbon nanotube/polypyrrole nanocomposite as a novel cathode catalyst and proper alternative for Pt in microbial fuel cell. *International Journal of Hydrogen Energy*, **2016**, 41, 4872-4878 6.7 73
- 236 Sulfonated poly ether ether ketone with different degree of sulphonation in microbial fuel cell: Application study and economical analysis. *International Journal of Hydrogen Energy*, **2016**, 41, 4862-4871 6.7 26
- 235 Mode II delamination of woven mengkuang fiber/woven silk laminated hybrid composites. *Materialpruefung/Materials Testing*, **2016**, 58, 374-380 1.9 1
- 234 Polylactic Acid Bionanocomposites Filled with Nanocrystalline Cellulose from TEMPO-Oxidized Oil Palm Lignocellulosic Biomass. *BioResources*, **2016**, 11, 8615-8626 1.3 7
- 233 Synthesis and Characterization of Sulfonated Graphene Oxide Nanofiller for Polymer Electrolyte Membrane. *IOP Conference Series: Materials Science and Engineering*, **2016**, 160, 012035 0.4 6
- 232 Effect of nitrogen precursors on the electrochemical performance of nitrogen-doped reduced graphene oxide towards oxygen reduction reaction. *Journal of Alloys and Compounds*, **2016**, 677, 112-120 5.7 52
- 231 Reactant Control System for Proton Exchange Membrane Fuel Cell. *Procedia Engineering*, **2016**, 148, 615-620 2
- 230 Overview biohydrogen technologies and application in fuel cell technology. *Renewable and Sustainable Energy Reviews*, **2016**, 66, 137-162 16.2 81
- 229 Development of a conceptual design model of a direct ethanol fuel cell (DEFC). *International Journal of Hydrogen Energy*, **2015**, 40, 11943-11948 6.7 26
- 228 Investigating design parameter effects on the methanol flux in the passive storage of a direct methanol fuel cell. *International Journal of Hydrogen Energy*, **2015**, 40, 11931-11942 6.7 6
- 227 Separators used in microbial electrochemical technologies: Current status and future prospects. *Bioresource Technology*, **2015**, 195, 170-9 11 102
- 226 Effect of temperature on the oxygen reduction reaction kinetic at nitrogen-doped carbon nanotubes for fuel cell cathode. *International Journal of Hydrogen Energy*, **2015**, 40, 11444-11450 6.7 24
- 225 Optimization of a porous carbon nanofiber layer for the membrane electrode assembly in DMFC. *Energy Conversion and Management*, **2015**, 101, 525-531 10.6 20
- 224 Study on the electronic properties and molecule adsorption of W18O49 nanowires as a catalyst support in the cathodes of direct methanol fuel cells. *Journal of Power Sources*, **2015**, 288, 461-472 8.9 12
- 223 The biocathode of microbial electrochemical systems and microbially-influenced corrosion. *Bioresource Technology*, **2015**, 190, 395-401 11 57
- 222 Manganese oxide/functionalised carbon nanotubes nanocomposite as catalyst for oxygen reduction reaction in microbial fuel cell. *International Journal of Hydrogen Energy*, **2015**, 40, 11625-11632 6.7 56
- 221 Composite membrane containing graphene oxide in sulfonated polyether ether ketone in microbial fuel cell applications. *International Journal of Hydrogen Energy*, **2015**, 40, 11604-11614 6.7 77

220	Biocathode in microbial electrolysis cell; present status and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 47, 23-33	16.2	111
219	An overview of the electrochemical performance of modified graphene used as an electrocatalyst and as a catalyst support in fuel cells. <i>Applied Catalysis A: General</i> , 2015 , 497, 198-210	5.1	72
218	Effects of temperature and backpressure on the performance degradation of MEA in PEMFC. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10960-10968	6.7	25
217	Recent developments in materials for aluminum-air batteries: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 32, 1-20	6.3	166
216	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	16.2	243
215	Study on kinetic energy of a novel metal composite for anode catalyst in direct methanol fuel cell. <i>International Journal of Energy Research</i> , 2015 , 39, 181-190	4.5	4
214	Spray drying: An overview on wall deposition, process and modeling. <i>Journal of Food Engineering</i> , 2015 , 146, 152-162	6	114
213	Thermophysical Properties of Silicon Dioxide (SiO ₂) in Ethylene Glycol/Water Mixture for Proton Exchange Membrane Fuel Cell Cooling Application. <i>Energy Procedia</i> , 2015 , 79, 366-371	2.3	32
212	Physical Parameters Affecting on the Electrode Performance for Proton Exchange Membrane Fuel Cells (PEMFCs). <i>Advanced Materials Research</i> , 2015 , 1105, 320-324	0.5	
211	Preparation and characterization of low temperature PTFE-Nafion composite membranes for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10072-10080	6.7	3
210	SPEEK/cSMM membrane for simultaneous electricity generation and wastewater treatment in microbial fuel cell. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 641-647	3.5	19
209	CFD Modeling of Air Flow on Wall Deposition in Different Spray Dryer Geometries. <i>Drying Technology</i> , 2015 , 33, 784-795	2.6	27
208	Non-Pt catalyst as oxygen reduction reaction in microbial fuel cells: A review. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4870-4883	6.7	231
207	Development and application of vanadium oxide/polyaniline composite as a novel cathode catalyst in microbial fuel cell. <i>International Journal of Energy Research</i> , 2014 , 38, 70-77	4.5	60
206	Graphene production via electrochemical reduction of graphene oxide: Synthesis and characterisation. <i>Chemical Engineering Journal</i> , 2014 , 251, 422-434	14.7	388
205	Performance enhancement of microbial fuel cell by PVDF/Nafion nanofibre composite proton exchange membrane. <i>Fuel Processing Technology</i> , 2014 , 124, 290-295	7.2	64
204	Synthesis, structure and theoretical investigation into a homoleptic tris(dithiolene) tungsten. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 120, 208-15	4.4	3
203	Investigation of MEA degradation in a passive direct methanol fuel cell under different modes of operation. <i>Applied Energy</i> , 2014 , 135, 364-372	10.7	34

202	Sensors for direct methanol fuel cells. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 40, 1060-1069	16.2	7
201	Synthesis and application of polypyrrole/carrageenan nano-bio composite as a cathode catalyst in microbial fuel cells. <i>Carbohydrate Polymers</i> , 2014 , 114, 253-259	10.3	49
200	Novel cathode catalyst for DMFC: Study of the density of states of oxygen adsorption using density functional theory. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 17295-17305	6.7	17
199	A DFT analyses for molecular structure, electronic state and spectroscopic property of a dithiolene tungsten carbonyl complex. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 124, 375-82	4.4	4
198	Modeling and simulation of a direct ethanol fuel cell: An overview. <i>Journal of Power Sources</i> , 2014 , 262, 401-406	8.9	47
197	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	6.7	32
196	Fabrication of thin Ag ₂ S composite cathode film for intermediate-temperature solid oxide fuel cells. <i>Composites Part B: Engineering</i> , 2014 , 58, 193-198	10	12
195	Effect of PTFE Content and Sintering Temperature on the Properties of a Fuel Cell Electrode Backing Layer. <i>Journal of Fuel Cell Science and Technology</i> , 2014 , 11,		9
194	Novel anode catalyst for direct methanol fuel cells. <i>Scientific World Journal, The</i> , 2014 , 2014, 547604	2.2	10
193	Methyl Esters Selectivity of Transesterification Reaction with Homogenous Alkaline Catalyst to Produce Biodiesel in Batch, Plug Flow, and Continuous Stirred Tank Reactors. <i>International Journal of Chemical Engineering</i> , 2014 , 2014, 1-13	2.2	5
192	Green hydrogen production from palm oil mill effluent (POME) by photocatalysis reaction 2014 ,		1
191	Pyrolysis of Palm Waste for the Application of Direct Carbon Fuel Cell. <i>Energy Procedia</i> , 2014 , 61, 878-881.	3	6
190	High power direct methanol fuel cell with a porous carbon nanofiber anode layer. <i>Applied Energy</i> , 2014 , 113, 946-954	10.7	75
189	Characterization of electrodes and performance tests on MEAs with varying platinum content and under various operational conditions. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9431-9437	6.7	16
188	Optimization of hot pressing parameters in membrane electrode assembly fabrication by response surface method. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9484-9493	6.7	17
187	The effect of nitric acid, ethylenediamine, and diethanolamine modified polyaniline nanoparticles anode electrode in a microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9525-9532	6.7	42
186	Hydrogen production by steam reforming of glycerol over Ni/Ce/Cu hydroxyapatite-supported catalysts. <i>Chemical Papers</i> , 2013 , 67,	1.9	16
185	Nafion/PdBiO ₂ nanofiber composite membranes for direct methanol fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9474-9483	6.7	84

184	Electrochemical properties of a PEMFC operating with saturated hydrogen and dry air. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9395-9400	6.7	3
183	Ion exchange membranes as separators in microbial fuel cells for bioenergy conversion: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 28, 575-587	16.2	219
182	Assessment of bioelectricity production in microbial fuel cells through series and parallel connections. <i>Energy Conversion and Management</i> , 2013 , 75, 256-262	10.6	52
181	Carbon doped TiO ₂ nanotubes photoanodes prepared by in-situ anodic oxidation of Ti-foil in acidic and organic medium with photocurrent enhancement. <i>Ceramics International</i> , 2013 , 39, 3731-3739	5.1	13
180	Effect of pre-treatment and biofouling of proton exchange membrane on microbial fuel cell performance. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 5480-5484	6.7	125
179	Review: Direct ethanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9438-9453	6.7	400
178	PTFE-nafion membrane reactor for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9553-9561	6.7	3
177	Reducing the deposition of fat and protein covered particles with low energy surfaces. <i>Journal of Food Engineering</i> , 2013 , 116, 737-748	6	11
176	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	6.7	43
175	Nonionic surfactant-templated mesoporous carbon as an electrocatalyst support for methanol oxidation. <i>Materials Chemistry and Physics</i> , 2013 , 139, 262-269	4.4	6
174	Fluidization characteristics of oil palm frond particles in agitated bed. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 497-507	5.5	13
173	Palladium/Alumina composite membrane for hydrogen separator fabricated by combined sol-gel, and electroless plating technique. <i>Ceramics International</i> , 2013 , 39, 3211-3219	5.1	15
172	Optical and photoelectrochemical properties of a TiO ₂ thin film doped with a ruthenium-tungsten bimetallic complex. <i>Ceramics International</i> , 2013 , 39, 2699-2707	5.1	9
171	Simultaneous wastewater treatment and electricity generation by microbial fuel cell: Performance comparison and cost investigation of using Nafion 117 and SPEEK as separators. <i>Desalination</i> , 2013 , 325, 1-6	10.3	96
170	Water balance for the design of a PEM fuel cell system. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9409-9420	6.7	20
169	Rheological properties of ultraviolet-irradiated and thermally pasteurized Yankee pineapple juice. <i>Journal of Food Engineering</i> , 2013 , 116, 548-553	6	29
168	An overview of fuel management in direct methanol fuel cells. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 24, 557-565	16.2	56
167	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	6.7	143

166	Nano-structured carbon as electrode material in microbial fuel cells: A comprehensive review. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 245-255	5.7	162
165	Copper-phthalocyanine and nickel nanoparticles as novel cathode catalysts in microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9533-9540	6.7	115
164	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	6.7	39
163	Process system engineering in biodiesel production: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 22, 631-639	16.2	29
162	Carbon nanotube as an alternative cathode support and catalyst for microbial fuel cells. <i>Applied Energy</i> , 2013 , 102, 1050-1056	10.7	115
161	Synthesis and Characterization of Sulfonated Polybenzimidazole (SPBI) Copolymer for Polymer Exchange Membrane Fuel Cell. <i>Advanced Materials Research</i> , 2013 , 860-863, 803-806	0.5	2
160	Performance of direct methanol fuel cell with a palladium-silica nanofibre/Nafion composite membrane. <i>Energy Conversion and Management</i> , 2013 , 75, 718-726	10.6	46
159	Improvement of Microbial Fuel Cell Performance by Using Nafion Polyaniline Composite Membranes as a Separator. <i>Journal of Fuel Cell Science and Technology</i> , 2013 , 10,		30
158	Drying of oil palm frond particles in a fluidized bed dryer with inert medium. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2013 , 19, 593-603	0.7	8
157	The role of Al and Mg in the hydrogen storage of electrospun ZnO nanofibers. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8388-8394	6.7	20
156	Effect of ethanol concentration in water coagulation bath on pore geometry of PVDF membrane for Membrane Gas Absorption application in CO ₂ removal. <i>Separation and Purification Technology</i> , 2012 , 88, 11-18	8.3	27
155	Nitrogen-containing carbon nanotubes as cathodic catalysts for proton exchange membrane fuel cells. <i>Diamond and Related Materials</i> , 2012 , 22, 12-22	3.5	43
154	Effect of nitrogen-doping concentration in carbon nanotubes on cathodic performance for proton exchange membrane fuel cell 2012 ,		1
153	Hydrogen rate manipulation of proton exchange membrane fuel cell (PEMFC) stack using feedback control system 2012 ,		2
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