Wan Ramli Wan Daud

List of Publications by Citations

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	Overview on the application of direct methanol fuel cell (DMFC) for portable electronic devices. *International Journal of Hydrogen Energy*, **2009**, 34, 6902-6916	6.7	577
308	Review: Direct ethanol fuel cells. *International Journal of Hydrogen Energy*, **2013**, 38, 9438-9453	6.7	400
307	Graphene production via electrochemical reduction of graphene oxide: Synthesis and characterisation. *Chemical Engineering Journal*, **2014**, 251, 422-434	14.7	388
306	Overview on the challenges and developments of micro-direct methanol fuel cells (DMFC). *Journal of Power Sources*, **2007**, 163, 743-754	8.9	306
305	A review of high-temperature proton exchange membrane fuel cell (HT-PEMFC) system. *International Journal of Hydrogen Energy*, **2017**, 42, 9293-9314	6.7	287
304	A review on energy management system for fuel cell hybrid electric vehicle: Issues and challenges. *Renewable and Sustainable Energy Reviews*, **2015**, 52, 802-814	16.2	243
303	PEM fuel cell system control: A review. *Renewable Energy*, **2017**, 113, 620-638	8.1	236
302	Non-Pt catalyst as oxygen reduction reaction in microbial fuel cells: A review. *International Journal of Hydrogen Energy*, **2014**, 39, 4870-4883	6.7	231
301	Challenges and future developments in proton exchange membrane fuel cells. *Renewable Energy*, **2006**, 31, 719-727	8.1	231
300	An overview of photocells and photoreactors for photoelectrochemical water splitting. *International Journal of Hydrogen Energy*, **2010**, 35, 5233-5244	6.7	229
299	Nanocatalyst for direct methanol fuel cell (DMFC). *International Journal of Hydrogen Energy*, **2010**, 35, 7957-7970	6.7	225
298	Ion exchange membranes as separators in microbial fuel cells for bioenergy conversion: A comprehensive review. *Renewable and Sustainable Energy Reviews*, **2013**, 28, 575-587	16.2	219
297	Solid-state Materials and Methods for Hydrogen Storage: A Critical Review. *Chemical Engineering and Technology*, **2010**, 33, 213-226	2	212
296	Overview of hybrid membranes for direct-methanol fuel-cell applications. *International Journal of Hydrogen Energy*, **2010**, 35, 2160-2175	6.7	205
295	Recent developments in materials for aluminum□ir batteries: A review. *Journal of Industrial and Engineering Chemistry*, **2015**, 32, 1-20	6.3	166
294	Extraction of hydrolysable tannins from Phyllanthus niruri Linn.: Effects of solvents and extraction methods. *Separation and Purification Technology*, **2007**, 52, 487-496	8.3	165
293	Electrode for proton exchange membrane fuel cells: A review. *Renewable and Sustainable Energy Reviews*, **2018**, 89, 117-134	16.2	162

292	Nano-structured carbon as electrode material in microbial fuel cells: A comprehensive review. *Journal of Alloys and Compounds*, **2013**, 580, 245-255	5.7	162
291	Activated carbon nanofibers as an alternative cathode catalyst to platinum in a two-chamber microbial fuel cell. *International Journal of Hydrogen Energy*, **2011**, 36, 13746-13752	6.7	151
290	Optimization of energy management system for fuel-cell hybrid electric vehicles: Issues and recommendations. *Applied Energy*, **2018**, 228, 2061-2079	10.7	150
289	Recent progress in nitrogen-doped carbon and its composites as electrocatalysts for fuel cell applications. *International Journal of Hydrogen Energy*, **2013**, 38, 9370-9386	6.7	143
288	Carbon and non-carbon support materials for platinum-based catalysts in fuel cells. *International Journal of Hydrogen Energy*, **2018**, 43, 7823-7854	6.7	134
287	Passive direct methanol fuel cells for portable electronic devices. *Applied Energy*, **2011**, 88, 1681-1689	10.7	130
286	Hydrogen production from steam□ethanol reforming: thermodynamic analysis. *International Journal of Hydrogen Energy*, **2000**, 25, 47-53	6.7	127
285	Coating of stainless steel and titanium bipolar plates for anticorrosion in PEMFC: A review. *International Journal of Hydrogen Energy*, **2017**, 42, 9135-9148	6.7	126
284	Effect of pre-treatment and biofouling of proton exchange membrane on microbial fuel cell performance. *International Journal of Hydrogen Energy*, **2013**, 38, 5480-5484	6.7	125
283	Additives in proton exchange membranes for low- and high-temperature fuel cell applications: A review. *International Journal of Hydrogen Energy*, **2019**, 44, 6116-6135	6.7	120
282	Copper-phthalocyanine and nickel nanoparticles as novel cathode catalysts in microbial fuel cells. *International Journal of Hydrogen Energy*, **2013**, 38, 9533-9540	6.7	115
281	Carbon nanotube as an alternative cathode support and catalyst for microbial fuel cells. *Applied Energy*, **2013**, 102, 1050-1056	10.7	115
280	Spray drying: An overview on wall deposition, process and modeling. *Journal of Food Engineering*, **2015**, 146, 152-162	6	114
279	Biocathode in microbial electrolysis cell; present status and future prospects. *Renewable and Sustainable Energy Reviews*, **2015**, 47, 23-33	16.2	111
278	Overview on nanostructured membrane in fuel cell applications. *International Journal of Hydrogen Energy*, **2011**, 36, 3187-3205	6.7	110
277	New generation of carbon nanocomposite proton exchange membranes in microbial fuel cell systems. *Chemical Engineering Journal*, **2012**, 184, 82-89	14.7	109
276	Electrode in direct methanol fuel cells. *International Journal of Hydrogen Energy*, **2010**, 35, 4606-4621	6.7	108
275	Separators used in microbial electrochemical technologies: Current status and future prospects. *Bioresource Technology*, **2015**, 195, 170-9	11	102

274	Nafion/silicon oxide/phosphotungstic acid nanocomposite membrane with enhanced proton conductivity. *Journal of Membrane Science*, **2009**, 327, 32-40	9.6	98
273	Simultaneous wastewater treatment and electricity generation by microbial fuel cell: Performance comparison and cost investigation of using Nafion 117 and SPEEK as separators. *Desalination*, **2013**, 325, 1-6	10.3	96
272	Sulfonated poly(ether ether ketone)/poly(ether sulfone) composite membranes as an alternative proton exchange membrane in microbial fuel cells. *International Journal of Hydrogen Energy*, **2012**, 37, 11409-11424	6.7	92
271	Design, fabrication and testing of a PMMA-based passive single-cell and a multi-cell stack micro-DMFC. *International Journal of Hydrogen Energy*, **2009**, 34, 8263-8269	6.7	85
270	Nafion/Pd□SiO2 nanofiber composite membranes for direct methanol fuel cell applications. *International Journal of Hydrogen Energy*, **2013**, 38, 9474-9483	6.7	84
269	CFD Evaluation of Droplet Drying Models in a Spray Dryer Fitted with a Rotary Atomizer. *Drying Technology*, **2008**, 26, 1180-1198	2.6	83
268	Overview biohydrogen technologies and application in fuel cell technology. *Renewable and Sustainable Energy Reviews*, **2016**, 66, 137-162	16.2	81
267	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
266	The kinetics of polyphenol degradation during the drying of Malaysian cocoa beans. *International Journal of Food Science and Technology*, **2005**, 40, 323-331	3.8	77
265	Thermal performance of the double-pass solar collector with and without porous media. *Renewable Energy*, **1999**, 18, 557-564	8.1	76
264	High power direct methanol fuel cell with a porous carbon nanofiber anode layer. *Applied Energy*, **2014**, 113, 946-954	10.7	75
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262	An overview of the electrochemical performance of modified graphene used as an electrocatalyst and as a catalyst support in fuel cells. *Applied Catalysis A: General*, **2015**, 497, 198-210	5.1	72
261	Drying kinetics and product quality of dried Chempedak. *Journal of Food Engineering*, **2008**, 88, 522-527	6	71
260	Screen-printing inks for the fabrication of solid oxide fuel cell films: A review. *Renewable and Sustainable Energy Reviews*, **2017**, 75, 426-439	16.2	68
259	Overview on Direct Formic Acid Fuel Cells (DFAFCs) as an Energy Sources. *APCBEE Procedia*, **2012**, 3, 33-39		67
258	Hydrogen purification using compact pressure swing adsorption system for fuel cell. *International Journal of Hydrogen Energy*, **2009**, 34, 2771-2777	6.7	67
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255	Performance enhancement of microbial fuel cell by PVDF/Nafion nanofibre composite proton exchange membrane. *Fuel Processing Technology*, **2014**, 124, 290-295	7.2	64
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253	Effects of flow field design on water management and reactant distribution in PEMFC: a review. *Ionics*, **2016**, 22, 301-316	2.7	63
252	Synthesis and optimization of future hydrogen energy infrastructure planning in Peninsular Malaysia. *International Journal of Hydrogen Energy*, **2009**, 34, 2077-2088	6.7	61
251	Development and application of vanadium oxide/polyaniline composite as a novel cathode catalyst in microbial fuel cell. *International Journal of Energy Research*, **2014**, 38, 70-77	4.5	60
250	The biocathode of microbial electrochemical systems and microbially-influenced corrosion. *Bioresource Technology*, **2015**, 190, 395-401	11	57
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247	Technical design and economic evaluation of a PEM fuel cell system. *Journal of Power Sources*, **2006** , 157, 641-649	8.9	55
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244	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
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