

Zaki Yamani Zakaria

List of Publications by Year in descending order

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62
papers

1,108
citations

471061

17
h-index

395343

33
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62
all docs

62
docs citations

62
times ranked

1293
citing authors

#	ARTICLE	IF	CITATIONS
1	Palm fatty acid distillate-based biodiesel with sulfonated chicken and cow bone catalyst. <i>Materials Today: Proceedings</i> , 2022, 57, 1053-1060.	0.9	3
2	Preservation of total phenolic content (TPC) in cucumber juice concentrate using non-thermal Progressive Freeze Concentration: Quantitative design characteristics and process optimization. <i>Journal of Cleaner Production</i> , 2022, 330, 129705.	4.6	4
3	Thermodynamic analysis of fuel oil blended stock (FOBS) model compound, n-eicosane to hydrogen via oxidative cracking. <i>Chemical Engineering Research and Design</i> , 2022, 178, 340-355.	2.7	1
4	Hydrogen production from steam and dry reforming of methane-ethane-glycerol: A thermodynamic comparative analysis. <i>Chemical Engineering Research and Design</i> , 2022, 180, 178-189.	2.7	20
5	Feasibility of Hydrogen Production from Cellulose and Prediction of the Product Distribution: Thermodynamics Analysis. <i>Sains Malaysiana</i> , 2022, 51, 747-756.	0.3	0
6	Progressive Freeze Concentration Performance Prediction based on Polynomial Curve Model for Star Fruit Juice Concentration. <i>Malaysian Journal of Fundamental and Applied Sciences</i> , 2022, 18, 245-256.	0.4	0
7	Thermodynamic Analysis of Light Hydrocarbon Production from Bio-oil Model Compound Through Co-cracking. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 165-174.	0.3	0
8	Production and characterization of diesel-like fuel by catalytic upgrading of scrap tire pyrolysis oil using basic catalyst derived from blood cockle shell (<i>Anadara Granosa</i>). <i>Materials Today: Proceedings</i> , 2021, 47, 1317-1322.	0.9	3
9	A Two-Step SO ₃ H/ICG Catalyst Synthesis for Biodiesel Production: Optimization of Sulfonation Step via Microwave Irradiation. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2021, 16, 63-75.	0.5	1
10	Modeling and Optimization of Biochar Based Adsorbent Derived from Kenaf Using Response Surface Methodology on Adsorption of Cd ²⁺ . <i>Water (Switzerland)</i> , 2021, 13, 999.	1.2	42
11	Challenges & Opportunities on Catalytic Conversion of Glycerol to Value Added Chemicals. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2021, 16, 525-547.	0.5	3
12	Development of Microwave-Assisted Sulfonated Glucose Catalyst for Biodiesel Production from Palm Fatty Acid Distillate (PFAD). <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2021, 16, 601-622.	0.5	1
13	Synergistic effect of anatase/rutile TiO ₂ with exfoliated Ti ₃ C ₂ TR MXene multilayers composite for enhanced CO ₂ photoreduction via dry and bi-reforming of methane under UV-visible light. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105244.	3.3	29
14	Pristine and Magnetic Kenaf Fiber Biochar for Cd ²⁺ Adsorption from Aqueous Solution. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7949.	1.2	40
15	Application of Computational Tools to Support Cooperative Learning in Bioreactor Design Course. <i>International Journal of Emerging Technologies in Learning</i> , 2021, 16, 46.	0.8	0
16	A review of sulfonic group bearing porous carbon catalyst for biodiesel production. <i>Renewable Energy</i> , 2021, 175, 430-452.	4.3	53
17	Fabricating structured 2D Ti ₃ AlC ₂ MAX dispersed TiO ₂ heterostructure with Ni ₂ P as a cocatalyst for efficient photocatalytic H ₂ production. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155752.	2.8	82
18	Lesson Study Among Engineering Lecturers as a Way to Plan, Implement, and Improve an Industry-Integrated Course. , 2019, , 23-40.		2

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19	Simulation of Crude Palm Oil Dilution in a Palm Oil Mill Using Computational Fluid Dynamics. <i>Chemical Engineering and Technology</i> , 2019, 42, 1797-1804.	0.9	0
20	Instilling Low Carbon Awareness through Technology-Enhanced Cooperative Problem Based Learning. <i>International Journal of Emerging Technologies in Learning</i> , 2019, 14, 152.	0.8	6
21	Enhanced photocatalytic carbon dioxide reforming of methane to fuels over nickel and montmorillonite supported TiO ₂ nanocomposite under UV-light using monolith photoreactor. <i>Journal of Cleaner Production</i> , 2019, 213, 451-461.	4.6	93
22	Simulation of noise exposure level of fire-fighters in emergency response services in Malaysia. <i>Safety Science</i> , 2018, 105, 121-127.	2.6	6
23	A sustainability performance assessment framework for palm oil mills. <i>Journal of Cleaner Production</i> , 2018, 174, 1679-1693.	4.6	27
24	Effect of Circulation Flowrate and Coolant Temperature on Progressive Freeze Concentration of Roselle Extract. , 2018, , .		0
25	Production of Biodiesel from Palm Fatty Acid Distillate by Microwave-Assisted Sulfonated Glucose Acid Catalyst. <i>Sains Malaysiana</i> , 2018, 47, 109-115.	0.3	9
26	Photo-induced reduction of CO ₂ to CO with hydrogen over plasmonic Ag-NPs/TiO ₂ NWs core/shell hetero-junction under UV and visible light. <i>Journal of CO₂ Utilization</i> , 2017, 18, 250-260.	3.3	76
27	Thermodynamic and experimental analysis on ethanol steam reforming for hydrogen production over Ni-modified TiO ₂ /MMT nanoclay catalyst. <i>Energy Conversion and Management</i> , 2017, 154, 25-37.	4.4	36
28	Grape Juice Concentration by Progressive Freeze Concentrator Sequence System. <i>Journal of Food Processing and Preservation</i> , 2017, 41, e12910.	0.9	18
29	Development of a kinetic model for hydrogen production from phenol over Ni-Co/ZrO ₂ catalyst. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 4444-4452.	3.3	21
30	Gas phase selective conversion of glycerol to acrolein over supported silicotungstic acid catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 34, 300-312.	2.9	31
31	Review: Parametric Study on the Performance of Progressive Cryoconcentration System. <i>Chemical Engineering Communications</i> , 2016, 203, 957-975.	1.5	33
32	Thermodynamic Analysis of Hydrogen Production from Ethanol-glycerol Mixture through Steam and Dry Reforming. <i>Procedia Manufacturing</i> , 2015, 2, 92-96.	1.9	11
33	Determination of Volatile Organic Compounds (VOCs) at Selected Pump Stations in Skudai, Johor Bahru. <i>Advanced Materials Research</i> , 2015, 1125, 306-311.	0.3	0
34	Desalination of seawater through progressive freeze concentration using a coil crystallizer. <i>Water Science and Technology: Water Supply</i> , 2015, 15, 625-631.	1.0	15
35	Fractional Freezing of Ethanol and Water Mixture. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 74, .	0.3	4
36	Effect of Coolant Temperature on Progressive Freeze Concentration of Refined, Bleached and Deodorised Palm Oil based on Process Efficiency and Heat Transfer. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 74, .	0.3	4

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37	The challenges and prospects of palm oil based biodiesel in Malaysia. Energy, 2015, 81, 255-261.	4.5	107
38	Synthesis and characterization of Ag/TiO ₂ plasmonic photocatalyst supported on stainless steel webnet. Malaysian Journal of Fundamental and Applied Sciences, 2015, 11, .	0.4	0
39	Thermodynamic Analysis of Glycerol Steam Reforming to Ethylene. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.3	4
40	Effect of Flowrate and Circulation Time on Fractionation of Refined Bleached and Deodorised Palm Oil using Progressive Freeze Concentration Method. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.3	1
41	Progressive Freeze Concentration of Coconut Water. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.3	4
42	Removal of Heavy Metals onto KOH-activated Ash-rich Sludge Adsorbent. Energy Procedia, 2014, 61, 2572-2575.	1.8	17
43	Thermodynamic Analysis of Hydrogen Production from Ethanol-glycerol Mixture Through Dry Reforming. Energy Procedia, 2014, 61, 2391-2394.	1.8	4
44	Optimization of catalytic glycerol steam reforming to light olefins using Cu/ZSM-5 catalyst. Energy Conversion and Management, 2014, 86, 735-744.	4.4	26
45	Thermodynamic Analysis of Glycerol Conversion to Olefins. Energy Procedia, 2014, 61, 2489-2492.	1.8	7
46	A perspective on catalytic conversion of glycerol to olefins. Biomass and Bioenergy, 2013, 55, 370-385.	2.9	62
47	Process Optimization of Effective Partition Constant in Progressive Freeze Concentration of Wastewater. Advances in Chemical Engineering and Science, 2013, 03, 286-293.	0.2	9
48	Catalyst screening for conversion of glycerol to light olefins. Chemical Engineering Journal, 2012, 207-208, 803-813.	6.6	156
49	Catalysts Screening for Catalytic Conversion of Glycerol to Olefins. Journal of Applied Sciences, 2010, 10, 1166-1170.	0.1	12
50	Progressive Freeze Concentration of Coconut Water: Effect of Coolant Temperature on Process Efficiency and Heat Transfer. Applied Mechanics and Materials, 0, 695, 447-450.	0.2	2
51	Behaviour of Ice Crystal Growth in a Vertical Finned Cylindrical Freeze Concentrator. Applied Mechanics and Materials, 0, 695, 451-454.	0.2	3
52	Effect of Circulation Flowrate on the Performance of a Spiral Finned Freeze Concentrator. Applied Mechanics and Materials, 0, 695, 455-458.	0.2	1
53	Effect of Coolant Temperature on Desalination Process via Progressive Freeze Concentration. Applied Mechanics and Materials, 0, 695, 443-446.	0.2	1
54	Renewable Coconut Shell Activated Carbon Based for Ethyl Orange Dye Removal. Applied Mechanics and Materials, 0, 695, 306-309.	0.2	3

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55	Effects of Salinity on Nanosilica Applications in Altering Limestone Rock Wettability for Enhanced Oil Recovery. <i>Advanced Materials Research</i> , 0, 1125, 200-204.	0.3	12
56	Effect of Fluidization Number on the Combustion of Empty Fruit Bunch in a Fluidized Bed. <i>Advanced Materials Research</i> , 0, 1125, 301-305.	0.3	1
57	Level of Learning from Occupational Safety Accidents: Current Status in Malaysia. <i>Advanced Materials Research</i> , 0, 1125, 608-612.	0.3	0
58	Effect of Processing Parameters and Heating Techniques on the Extraction Yield of <i>Eurycoma longifolia</i> (Tongkat Ali). <i>Advanced Materials Research</i> , 0, 1125, 489-493.	0.3	0
59	Cooling Towers. , 0, , 63-79.		1
60	Optimization of Oxidative Coupling of Methane Using Response Surface Methodology. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 0, , .	0.3	0
61	Optimally Efficient Biodiesel Conversion From Used Cooking Oil by Zeolite Supported Calcium Oxide Catalyst. , 0, , .		1
62	Concentration of Cucumber Juice Using Progressive Freeze Concentration for Total Phenolic Content Increment. , 0, , .		0