Zaki Yamani Zakaria

List of Publications by Year
in descending order

62	1,108	471061 17	395343 33
papers	citations	h-index	g-index

62	62	62	1293
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Catalyst screening for conversion of glycerol to light olefins. Chemical Engineering Journal, 2012, 207-208, 803-813.	6.6	156
2	The challenges and prospects of palm oil based biodiesel in Malaysia. Energy, 2015, 81, 255-261.	4.5	107
3	Enhanced photocatalytic carbon dioxide reforming of methane to fuels over nickel and montmorillonite supported TiO2 nanocomposite under UV-light using monolith photoreactor. Journal of Cleaner Production, 2019, 213, 451-461.	4.6	93
4	Fabricating structured 2D Ti3AlC2 MAX dispersed TiO2 heterostructure with Ni2P as a cocatalyst for efficient photocatalytic H2 production. Journal of Alloys and Compounds, 2020, 842, 155752.	2.8	82
5	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. Journal of CO2 Utilization, 2017, 18, 250-260.	3.3	76
6	A perspective on catalytic conversion of glycerol to olefins. Biomass and Bioenergy, 2013, 55, 370-385.	2.9	62
7	A review of sulfonic group bearing porous carbon catalyst for biodiesel production. Renewable Energy, 2021, 175, 430-452.	4.3	53
8	Modeling and Optimization of Biochar Based Adsorbent Derived from Kenaf Using Response Surface Methodology on Adsorption of Cd2+. Water (Switzerland), 2021, 13, 999.	1.2	42
9	Pristine and Magnetic Kenaf Fiber Biochar for Cd2+ Adsorption from Aqueous Solution. International Journal of Environmental Research and Public Health, 2021, 18, 7949.	1.2	40
10	Thermodynamic and experimental analysis on ethanol steam reforming for hydrogen production over Ni-modified TiO 2 /MMT nanoclay catalyst. Energy Conversion and Management, 2017, 154, 25-37.	4.4	36
11	Review: Parametric Study on the Performance of Progressive Cryoconcentration System. Chemical Engineering Communications, 2016, 203, 957-975.	1.5	33
12	Gas phase selective conversion of glycerol to acrolein over supported silicotungstic acid catalyst. Journal of Industrial and Engineering Chemistry, 2016, 34, 300-312.	2.9	31
13	Synergistic effect of anatase/rutile TiO2 with exfoliated Ti3C2TR MXene multilayers composite for enhanced CO2 photoreduction via dry and bi-reforming of methane under UVâ€“visible light. Journal of Environmental Chemical Engineering, 2021, 9, 105244.	3.3	29
14	A sustainability performance assessment framework for palm oil mills. Journal of Cleaner Production, 2018, 174, 1679-1693.	4.6	27
15	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
16	Development of a kinetic model for hydrogen production from phenol over Ni-Co/ZrO2 catalyst. Journal of Environmental Chemical Engineering, 2016, 4, 4444-4452.	3.3	21
17	Hydrogen production from steam and dry reforming of methane-ethane-glycerol: A thermodynamic comparative analysis. Chemical Engineering Research and Design, 2022, 180, 178-189.	2.7	20
18	Grape Juice Concentration by Progressive Freeze Concentrator Sequence System. Journal of Food Processing and Preservation, 2017, 41, e12910.	0.9	18

#	Article	IF	Citations
19	Removal of Heavy Metals onto KOH-activated Ash-rich Sludge Adsorbent. Energy Procedia, 2014, 61, 2572-2575.	1.8	17
20	Desalination of seawater through progressive freeze concentration using a coil crystallizer. Water Science and Technology: Water Supply, 2015, 15, 625-631.	1.0	15
21	Effects of Salinity on Nanosilica Applications in Altering Limestone Rock Wettability for Enhanced Oil Recovery. Advanced Materials Research, 0, 1125, 200-204.	0.3	12
22	Catalysts Screening for Catalytic Conversion of Glycerol to Olefins. Journal of Applied Sciences, 2010, 10, 1166-1170.	0.1	12
23	Thermodynamic Analysis of Hydrogen Production from Ethanol-glycerol Mixture through Steam and Dry Reforming. Procedia Manufacturing, 2015, 2, 92-96.	1.9	11
24	Production of Biodiesel from Palm Fatty Acid Distillate by Microwave-Assisted Sulfonated Glucose Acid Catalyst. Sains Malaysiana, 2018, 47, 109-115.	0.3	9
25	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
26	Thermodynamic Analysis of Glycerol Conversion to Olefins. Energy Procedia, 2014, 61, 2489-2492.	1.8	7
27	Simulation of noise exposure level of fire-fighters in emergency response services in Malaysia. Safety Science, 2018, 105, 121-127.	2.6	6
28	Instilling Low Carbon Awareness through Technology-Enhanced Cooperative Problem Based Learning. International Journal of Emerging Technologies in Learning, 2019, 14, 152.	0.8	6
29	Thermodynamic Analysis of Glycerol Steam Reforming to Ethylene. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT /Overlo	0.3	4
30	Progressive Freeze Concentration of Coconut Water. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.3	4
31	Thermodynamic Analysis of Hydrogen Production from Ethanol-glycerol Mixture Through Dry Reforming. Energy Procedia, 2014, 61, 2391-2394.	1.8	4
32	Fractional Freezing of Ethanol and Water Mixture. Jurnal Teknologi (Sciences and Engineering), 2015, 74, .	0.3	4
33	Effect of Coolant Temperature on Progressive Freeze Concentration of Refined, Bleached and Deodorised Palm Oil based on Process Efficiency and Heat Transfer. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT /Overlo	0.3	4
34	Preservation of total phenolic content (TPC) in cucumber juice concentrate using non-thermal Progressive Freeze Concentration: Quantitative design characteristics and process optimization. Journal of Cleaner Production, 2022, 330, 129705.	4.6	4
35	Behaviour of Ice Crystal Growth in a Vertical Finned Cylindrical Freeze Concentrator. Applied Mechanics and Materials, 0, 695, 451-454.	0.2	3
36	Renewable Coconut Shell Activated Carbon Based for Ethyl Orange Dye Removal. Applied Mechanics and Materials, 0, 695, 306-309.	0.2	3

#	Article	IF	Citations
37	Production and characterization of diesel-like fuel by catalytic upgrading of scrap tire pyrolysis oil using basic catalyst derived from blood cockle shell (Anadara Granosa). Materials Today: Proceedings, 2021, 47, 1317-1322.	0.9	3
38	Challenges & Opportunities on Catalytic Conversion of Glycerol to Value Added Chemicals. Bulletin of Chemical Reaction Engineering and Catalysis, 2021, 16, 525-547.	0.5	3
39	Palm fatty acid distillate-based biodiesel with sulfonated chicken and cow bone catalyst. Materials Today: Proceedings, 2022, 57, 1053-1060.	0.9	3
40	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
41	Lesson Study Among Engineering Lecturers as aÂWay to Plan, Implement, and Improve an Industry-Integrated Course. , 2019, , 23-40.		2
42	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
43	Effect of Circulation Flowrate on the Performance of a Spiral Finned Freeze Concentrator. Applied Mechanics and Materials, 0, 695, 455-458.	0.2	1
44	Effect of Coolant Temperature on Desalination Process via Progressive Freeze Concentration. Applied Mechanics and Materials, 0, 695, 443-446.	0.2	1
45	Effect of Fluidization Number on the Combustion of Empty Fruit Bunch in a Fluidized Bed. Advanced Materials Research, 0, 1125, 301-305.	0.3	1
46	A Two-Step SO3H/ICG Catalyst Synthesis for Biodiesel Production: Optimization of Sulfonation Step via Microwave Irradiation. Bulletin of Chemical Reaction Engineering and Catalysis, 2021, 16, 63-75.	0.5	1
47	Development of Microwave-Assisted Sulfonated Glucose Catalyst for Biodiesel Production from Palm Fatty Acid Distillate (PFAD). Bulletin of Chemical Reaction Engineering and Catalysis, 2021, 16, 601-622.	0.5	1
48	Cooling Towers. , 0, , 63-79.		1
49	Optimally Efficient Biodiesel Conversion From Used Cooking Oil by Zeolite Supported Calcium Oxide Catalyst. , 0, , .		1
50	Thermodynamic analysis of fuel oil blended stock (FOBS) model compound, n-eicosane to hydrogen via oxidative cracking. Chemical Engineering Research and Design, 2022, 178, 340-355.	2.7	1
51	Determination of Volatile Organic Compounds (VOCs) at Selected Pump Stations in Skudai, Johor Bahru. Advanced Materials Research, 2015, 1125, 306-311.	0.3	0
52	Level of Learning from Occupational Safety Accidents: Current Status in Malaysia. Advanced Materials Research, 0, 1125, 608-612.	0.3	0
53	Effect of Processing Parameters and Heating Techniques on the Extraction Yield of <i>Eurycoma</i> <i>longifolia </i>(Tongkat Ali). Advanced Materials Research, 0, 1125, 489-493.	0.3	0
54	Effect of Circulation Flowrate and Coolant Temperature on Progressive Freeze Concentration of Roselle Extract. , 2018, , .		0

#	Article	IF	Citations
55	Simulation of Crude Palm Oil Dilution in a Palm Oil Mill Using Computational Fluid Dynamics. Chemical Engineering and Technology, 2019, 42, 1797-1804.	0.9	0
56	Thermodynamic Analysis of Light Hydrocarbon Production from Bio-oil Model Compound Through Co-cracking. Lecture Notes in Mechanical Engineering, 2021, , 165-174.	0.3	0
57	Application of Computational Tools to Support Cooperative Learning in Bioreactor Design Course. International Journal of Emerging Technologies in Learning, 2021, 16, 46.	0.8	0
58	Optimization of Oxidative Coupling of Methane Using Response Surface Methodology. Jurnal Teknologi (Sciences and Engineering), 0, , .	0.3	0
59	Synthesis and characterization of Ag/TiO2 plasmonic photocatalyst supported on stainless steel webnet. Malaysian Journal of Fundamental and Applied Sciences, 2015, 11, .	0.4	0
60	Concentration of Cucumber Juice Using Progressive Freeze Concentration for Total Phenolic Content Increment. , 0, , .		0
61	Feasibility of Hydrogen Production from Cellulose and Prediction of the Product Distribution: Thermodynamics Analysis. Sains Malaysiana, 2022, 51, 747-756.	0.3	0
62	Progressive Freeze Concentration Performance Prediction based on Polynomial Curve Model for Star Fruit Juice Concentration. Malaysian Journal of Fundamental and Applied Sciences, 2022, 18, 245-256.	0.4	0