

Jolius Gimbun

List of Publications by Year in descending order

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102
papers

2,406
citations

218677

26
h-index

223800

46
g-index

106
all docs

106
docs citations

106
times ranked

2359
citing authors

#	ARTICLE	IF	CITATIONS
1	A CFD study of the effect of cone dimensions on sampling aerocyclones performance and hydrodynamics. Powder Technology, 2006, 162, 126-132.	4.2	176
2	The influence of temperature and inlet velocity on cyclone pressure drop: a CFD study. Chemical Engineering and Processing: Process Intensification, 2005, 44, 7-12.	3.6	170
3	Modelling of mass transfer in gas-liquid stirred tanks agitated by Rushton turbine and CD-6 impeller: A scale-up study. Chemical Engineering Research and Design, 2009, 87, 437-451.	5.6	129
4	Thermal and mechanical properties of bamboo fiber reinforced composites. Materials Today Communications, 2020, 23, 100876.	1.9	128
5	Adsorption of basic dye onto palm kernel shell activated carbon: sorption equilibrium and kinetics studies. Desalination, 2005, 186, 57-64.	8.2	110
6	Prediction of the effects of cone tip diameter on the cyclone performance. Journal of Aerosol Science, 2005, 36, 1056-1065.	3.8	103
7	Assessment of phenolic compounds stability and retention during spray drying of Orthosiphon stamineus extracts. Food Hydrocolloids, 2014, 37, 159-165.	10.7	86
8	Syngas production from glycerol-dry(CO ₂) reforming over La-promoted Ni/Al ₂ O ₃ catalyst. Renewable Energy, 2015, 74, 441-447.	8.9	83
9	A CFD Study on the Prediction of Cyclone Collection Efficiency. International Journal for Computational Methods in Engineering Science and Mechanics, 2005, 6, 161-168.	2.1	71
10	A Comprehensive Review on <i>Ocimum basilicum</i> . Journal of Natural Remedies, 2018, 18, 71-85.	0.3	70
11	Production of CO-rich hydrogen gas from glycerol dry reforming over La-promoted Ni/Al ₂ O ₃ catalyst. International Journal of Hydrogen Energy, 2014, 39, 6927-6936.	7.1	66
12	Biodiesel Production from Rubber Seed Oil using Activated Cement Clinker as Catalyst. Procedia Engineering, 2013, 53, 13-19.	1.2	64
13	An Overview of Chitosan Nanofibers and their Applications in the Drug Delivery Process. Current Drug Delivery, 2019, 16, 272-294.	1.6	54
14	Detached eddy simulation on the turbulent flow in a stirred tank. AIChE Journal, 2012, 58, 3224-3241.	3.6	52
15	Simultaneous Quadrature Method of Moments for the Solution of Population Balance Equations, Using a Differential Algebraic Equation Framework. Industrial & Engineering Chemistry Research, 2009, 48, 7798-7812.	3.7	51
16	A Study of Particle Histories during Spray Drying Using Computational Fluid Dynamic Simulations. Drying Technology, 2010, 28, 566-576.	3.1	45
17	Characterization of La-promoted Ni/Al ₂ O ₃ catalysts for hydrogen production from glycerol dry reforming. Journal of Energy Chemistry, 2014, 23, 15-21.	12.9	45
18	Synthesis and characterisation of cement clinker-supported nickel catalyst for glycerol dry reforming. Chemical Engineering Journal, 2014, 255, 245-256.	12.7	44

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19	Biodiesel Production from Rubber Seed Oil Using A Limestone Based Catalyst. <i>Advances in Materials Physics and Chemistry</i> , 2012, 02, 138-141.	0.7	40
20	Biodiesel synthesized from waste cooking oil in a continuous microwave assisted reactor reduced PM and NOx emissions. <i>Environmental Research</i> , 2020, 185, 109452.	7.5	32
21	Synthesis and characterization of nano-hydroxyapatite/graphene oxide composite materials for medical implant coating applications. <i>Materials Today: Proceedings</i> , 2021, 36, 204-207.	1.8	32
22	Correlation between the extraction yield of mangiferin to the antioxidant activity, total phenolic and total flavonoid content of <i>Phaleria macrocarpa</i> fruits. <i>Journal of Applied Research on Medicinal and Aromatic Plants</i> , 2019, 14, 100224.	1.5	31
23	CO2 reforming of glycerol over La-Ni/Al2O3 catalyst: A longevity evaluative study. <i>Journal of Energy Chemistry</i> , 2015, 24, 366-373.	12.9	30
24	External strengthening of reinforced concrete beam with opening by bamboo fiber reinforced composites. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	3.1	29
25	Catalytic performance of cement clinker supported nickel catalyst in glycerol dry reforming. <i>Journal of Energy Chemistry</i> , 2014, 23, 645-656.	12.9	28
26	Catalytic pyrolysis of glycerol into syngas over ceria-promoted Ni/Al2O3 catalyst. <i>Renewable Energy</i> , 2017, 107, 223-234.	8.9	28
27	Acid Hydrolysis of Chitosan to Oligomers Using Hydrochloric Acid. <i>Chemical Engineering and Technology</i> , 2019, 42, 1741-1746.	1.5	28
28	Analysis of dust distribution in silo during axial filling using computational fluid dynamics: Assessment on dust explosion likelihood. <i>Chemical Engineering Research and Design</i> , 2015, 96, 14-21.	5.6	27
29	Synthesis and characterization of a La Ni/Al2O3 catalyst and its use in pyrolysis of glycerol to syngas. <i>Renewable Energy</i> , 2019, 132, 1389-1401.	8.9	25
30	Economical Biodiesel Fuel Synthesis from Castor Oil Using Mussel Shell-Base Catalyst (MS-BC). <i>Energy Procedia</i> , 2015, 79, 576-583.	1.8	24
31	Characterization of Ag-promoted Ni/SiO2 Catalysts for Syngas Production via Carbon Dioxide (CO2) Dry Reforming of Glycerol. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2016, 11, 220-229.	1.1	22
32	Influence of nutrient addition on the bioethanol yield from oil palm trunk sap fermented by <i>Saccharomyces cerevisiae</i> . <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 23, 213-217.	5.8	20
33	Assessment of chlorine leak dispersion around Gebeng industrial area and potential evacuation route. <i>Atmospheric Research</i> , 2019, 216, 117-129.	4.1	20
34	Application of Computational Fluid Dynamics (CFD) Simulations to Spray-Freezing Operations. <i>Drying Technology</i> , 2009, 28, 94-102.	3.1	18
35	Natural Fiber Composites as Potential External Strengthening Material – A Review. <i>Indian Journal of Science and Technology</i> , 2017, 10, .	0.7	18
36	Natural Resources Product Prospects - International Conference on Fluids and Chemical Engineering-FluidChE 2017, Malaysia. <i>Indian Journal of Science and Technology</i> , 2017, 10, 1-4.	0.7	18

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37	A study on the kinetics of syngas production from glycerol over alumina-supported samarium-nickel catalyst. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 10568-10577.	7.1	17
38	Effect of Solution Properties and Operating Parameters on Needleless Electrospinning of Poly(Ethylene Oxide) Nanofibers Loaded with Bovine Serum Albumin. <i>Current Drug Delivery</i> , 2019, 16, 913-922.	1.6	17
39	CFD Simulation of Aerocyclone Hydrodynamics and Performance at Extreme Temperature. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2008, 2, 22-29.	3.1	16
40	Thermal degradation kinetics of nicotinic acid, pantothenic acid and catechin derived from Averrhoa bilimbi fruits. <i>RSC Advances</i> , 2015, 5, 74132-74137.	3.6	16
41	Renewable syngas production from thermal cracking of glycerol over praseodymium-promoted Ni/Al ₂ O ₃ catalyst. <i>Applied Thermal Engineering</i> , 2017, 112, 871-880.	6.0	15
42	Successive optimisation of waste cooking oil transesterification in a continuous microwave assisted reactor. <i>RSC Advances</i> , 2015, 5, 76743-76751.	3.6	14
43	Assessment of Maceration, Ultrasonic and Microwave Assisted Extraction for Total Phenolic Content, Total Flavonoid Content and Kaempferol Yield from <i>Cassia alata</i> via Microstructures Analysis. <i>Materials Today: Proceedings</i> , 2019, 19, 1273-1279.	1.8	14
44	Assessment of Phenolic Compounds Stability and Retention during Spray Drying of <i>Phyllanthus niruri</i> Extracts. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 752-761.	3.7	12
45	Hydrogen Production via Glycerol Dry Reforming over La-Ni/Al ₂ O ₃ Catalyst. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2013, 8, 160-166.	1.1	11
46	Needleless Electrospinning Technology – An Entrepreneurial Perspective. <i>Indian Journal of Science and Technology</i> , 2016, 9, .	0.7	11
47	Three-Way Coupling Simulation of a Gas-Liquid Stirred Tank using a Multi-Compartment Population Balance Model. <i>Chemical Product and Process Modeling</i> , 2016, 11, 205-216.	0.9	11
48	The effect of particle size and solvent type on the gallic acid yield obtained from <i>Labisia pumila</i> by ultrasonic extraction. <i>MATEC Web of Conferences</i> , 2017, 111, 02008.	0.2	10
49	Optimisation of microwave-assisted extraction (MAE) of anthraquinone and flavonoids from <i>Senna alata</i> (L.) Roxb. <i>Natural Product Research</i> , 2022, 36, 3756-3760.	1.8	10
50	Unsteady RANS and detached eddy simulation of the multiphase flow in a co-current spray drying. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1421-1428.	3.5	9
51	Strengthening Performance of PALF-Epoxy Composite Plate on Reinforced Concrete Beams. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 318, 012026.	0.6	9
52	Strengthening of Reinforced Concrete Beams Using Bamboo Fiber/Epoxy Composite Plates in Flexure. <i>Key Engineering Materials</i> , 2019, 821, 465-471.	0.4	9
53	Thermal performance enhancement of non-premixed syngas combustion in a partial combustion unit by winged nozzle: Experimental and CFD study. <i>Energy</i> , 2019, 182, 148-158.	8.8	9
54	Extraction and Microencapsulation of Polyphenols from <i>Orthosiphon stamineus</i> Leaves. <i>Journal of Mechanical Engineering and Sciences</i> , 2014, 7, 1033-1041.	0.6	9

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55	Microwave Reinforced Transesterification of Rubber Seed Oil Using Waste Cement Clinker Catalyst. <i>Current Nanoscience</i> , 2016, 12, 576-585.	1.2	9
56	Samarium Promoted Ni/Al ₂ O ₃ Catalysts for Syngas Production from Glycerol Pyrolysis. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2016, 11, 238-244.	1.1	9
57	Microwave-Irradiation Induced Fast Simultaneous Extraction of Methoxylated and Hydroxylated Phenolic Compounds from <i>Orthosiphon stamineus</i> Leaves. <i>Materials Science Forum</i> , 2017, 890, 155-158.	0.3	8
58	Magnesium sulphate and Î ² -alanine enhanced the ability of <i>Kluyveromyces marxianus</i> producing bioethanol using oil palm trunk sap. <i>Biofuels</i> , 2017, 8, 595-603.	2.4	8
59	Potential External Strengthening of Reinforced Concrete Beam Using Natural Fiber Composite Plate. <i>Applied Mechanics and Materials</i> , 2018, 878, 41-48.	0.2	8
60	Comparison of Microwave and Ultrasonic Assisted Extraction of Kaempferol from Cassia Alata. <i>International Journal of Engineering and Technology(UAE)</i> , 2018, 7, 84.	0.3	8
61	Prediction of the Effect of Dimension, Particle Density, Temperature, and Inlet Velocity on Cyclone Collection Efficiency. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2012, , .	0.4	7
62	Influence of nozzle design on the performance of a partial combustion lance: A CFD study. <i>Chemical Engineering Research and Design</i> , 2015, 104, 558-570.	5.6	7
63	Mass spectrometry analysis of auxiliary energy-induced terpenes extraction from <i>Andrographis paniculata</i> . <i>Industrial Crops and Products</i> , 2020, 155, 112828.	5.2	7
64	Application of Cement Clinker as Ni-Catalyst Support for Glycerol Dry Reforming. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2013, 8, .	1.1	6
65	Scale-adaptive simulation on the reactive turbulent flow in a partial combustion lance: Assessment of thermal insulators. <i>Applied Thermal Engineering</i> , 2016, 105, 887-893.	6.0	6
66	Stability and controlled release enhancement of <i>Labisia pumila</i> 's polyphenols. <i>Food Bioscience</i> , 2021, 41, 101025.	4.4	6
67	Effect of Humidity on Formation of Electrospun Polycaprolactone Nanofiber Embedded with Curcumin using Needleless Electrospinning. <i>Materials Today: Proceedings</i> , 2019, 19, 1241-1246.	1.8	6
68	Ultrasonic Assisted Extraction on Phenolic and Flavonoid Content from <i>Phyllanthus niruri</i> Plant. <i>Indian Journal of Science and Technology</i> , 2017, 10, .	0.7	5
69	ENERGY DISSIPATION REDUCTION USING SIMILARLY-CHARGED POLYMER-SURFACTANT COMPLEX. <i>Advances and Applications in Fluid Mechanics</i> , 2015, 18, 113-128.	0.1	5
70	Transesterification of Waste Cooking Oil using Chemically Treated Catalyst. <i>Journal of Applied Sciences</i> , 2014, 14, 1425-1429.	0.3	5
71	Optimization of Ultrasonic-Assisted Extraction of Polyphenolic and Flavonoids from <i>Labisia pumila</i> . <i>Materials Science Forum</i> , 2017, 890, 167-170.	0.3	4
72	Assessment of explosibility and explosion severity of rice flour at different concentration and ignition time. <i>Process Safety Progress</i> , 2020, 39, e12107.	1.0	4

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73	INFLUENCE OF ALKALI TREATMENT ON PHYSICO-CHEMICAL PROPERTIES OF MALAYSIAN BAMBOO FIBER: A PRELIMINARY STUDY. <i>Malaysian Journal of Analytical Sciences</i> , 2018, 22, .	0.1	4
74	A Computational Fluid Dynamics Study of Turbulence, Radiation, and Combustion Models for Natural Gas Combustion Burner. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2018, 13, 155.	1.1	4
75	Metformin - A Panacea Pharmaceutical Agent through convergence revolution initiative. <i>Journal of Natural Remedies</i> , 2017, 17, 1-11.	0.3	4
76	Comment on: "Performance of different analytical methods in evaluating grade efficiency of centrifugal separators" by Ray M.B., Hoffmann A.C. and Postma R.S. (2000). <i>Journal of Aerosol Science</i> , 2003, 34, 1595-1596.	3.8	3
77	Bioreactor design via spreadsheet "a study on the monosodium glutamate (MSG) process. <i>Journal of Food Engineering</i> , 2004, 64, 277-283.	5.2	3
78	CFD Simulation on the Hydrodynamics in Gas-Liquid Airlift Reactor. <i>Chemical Product and Process Modeling</i> , 2017, 12, .	0.9	3
79	<i>Orthosiphon stamineus</i> (Java Tea). , 2019, , 327-333.		3
80	Potential Use of Bamboo Reinforced Concrete Beams towards Sustainable Construction. , 2017, , .		3
81	Effect of encapsulation agents on antioxidant activity and moisture content of spray dried powder from Mahkota Dewa fruit extract. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 991, 012040.	0.6	3
82	Understanding the Effect of Surface Terrain on Pollution Transport around Gebeng Industrial Area. <i>Indian Journal of Science and Technology</i> , 2017, 10, .	0.7	2
83	Effect of Soil Burial on Mechanical Properties of Bamboo Fiber Reinforced Epoxy Composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 736, 052016.	0.6	2
84	Microwave-Assisted Extraction of Andrographolide, 14-Deoxy-11,12- didehydroandrographolide and Neoandrographolide from <i>Andrographis paniculata</i> : An Optimisation Study. <i>Current Nutrition and Food Science</i> , 2020, 16, 1318-1325.	0.6	2
85	Hydrogen as Carbon Gasifying Agent During Glycerol Steam Reforming over Bimetallic Co-Ni Catalyst. <i>Advances in Materials Physics and Chemistry</i> , 2012, 02, 165-168.	0.7	2
86	Assessment on Bioavailability of Flavonoids from <i>Orthosiphon Stamineus</i> During Spray Drying. , 2013, , 137-144.		1
87	Experimental measurement and CFD simulation on the hydrodynamics of an internal-loop airlift reactor. <i>MATEC Web of Conferences</i> , 2017, 111, 01002.	0.2	1
88	The effect of auxiliary energy on rhein, kaempferol and astragaline extraction from <i>Cassia alata</i> . <i>MATEC Web of Conferences</i> , 2017, 111, 02009.	0.2	1
89	Optimisation of Gallic Acid and Quercetin Extraction from <i>Phyllanthus Niruri</i> . <i>International Journal of Engineering and Technology(UAE)</i> , 2018, 7, 90.	0.3	1
90	Experimental measurement for non-spherical bulk materials flow behaviour in rectangular enclosure. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 701, 012061.	0.6	1

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91	Modeling the effect of hypothetical chlorine leakage from Malay-Sino Chemical Industries using ALOHA software and development of an emergency evacuation route around Teluk Kalong industrial area. IOP Conference Series: Materials Science and Engineering, 2020, 736, 072015.	0.6	1
92	Dispersion of Irregular Particles during Free Fall. Journal of Physics: Conference Series, 2020, 1532, 012010.	0.4	1
93	Assessment on antioxidant activity and physical characteristics of spray dried Mahkota Dewa fruit extracts. IOP Conference Series: Materials Science and Engineering, 2020, 736, 062008.	0.6	1
94	The influence of temperature and inlet velocity on cyclone pressure drop: a CFD study. Chemical Engineering and Processing: Process Intensification, 2004, 44, 7-7.	3.6	0
95	Modeling of Methyl Methacrylate Polymerization Using MATLAB. Chemical Product and Process Modeling, 2016, 11, 185-196.	0.9	0
96	Assessment of Size Reduction and Extraction Methods on the Yield of Gallic Acid from Labisia pumila Leaf via Microstructures Analysis. Materials Today: Proceedings, 2019, 19, 1280-1286.	1.8	0
97	Explosion of rice flour at different concentration and moisture content. IOP Conference Series: Materials Science and Engineering, 2020, 736, 022027.	0.6	0
98	Influence of monsoon seasons on accidental chlorine leak and dispersion around Gebeng industrial area. IOP Conference Series: Materials Science and Engineering, 2020, 736, 072008.	0.6	0
99	Characteristics of dust cloud formation: The effect of conveying speed on flow field of tea powder. AIP Conference Proceedings, 2021, , .	0.4	0
100	Prediction of Particles-Air Movement in Silo during Filling Operation. Open Journal of Inorganic Non-metallic Materials, 2014, 04, 21-27.	2.7	0
101	Explosion of Undried and Dried Rice Flour with Ignition Time of 20Âms. Lecture Notes in Mechanical Engineering, 2021, , 299-305.	0.4	0
102	Simulation study on the influence of ignition location and feeding temperature during powder free falling. AIP Conference Proceedings, 2020, , .	0.4	0