

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	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
2	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
3	Characteristics of dust cloud formation: The effect of conveying speed on flow field of tea powder. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	0
4	Stability and controlled release enhancement of <i>Labisia pumila</i> 's polyphenols. <i>Food Bioscience</i> , 2021, 41, 101025.	4.4	6
5	Explosion of Undried and Dried Rice Flour with Ignition Time of 20Âms. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 299-305.	0.4	0
6	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
7	Thermal and mechanical properties of bamboo fiber reinforced composites. <i>Materials Today Communications</i> , 2020, 23, 100876.	1.9	128
8	Explosion of rice flour at different concentration and moisture content. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 736, 022027.	0.6	0
9	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
10	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
11	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. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 736, 072015.	0.6	1
12	Influence of monsoon seasons on accidental chlorine leak and dispersion around Gebeng industrial area. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 736, 072008.	0.6	0
13	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
14	Dispersion of Irregular Particles during Free Fall. <i>Journal of Physics: Conference Series</i> , 2020, 1532, 012010.	0.4	1
15	Assessment on antioxidant activity and physical characteristics of spray dried Mahkota Dewa fruit extracts. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 736, 062008.	0.6	1
16	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
17	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
18	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

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19	Simulation study on the influence of ignition location and feeding temperature during powder free falling. AIP Conference Proceedings, 2020, , .	0.4	0
20	Strengthening of Reinforced Concrete Beams Using Bamboo Fiber/Epoxy Composite Plates in Flexure. Key Engineering Materials, 2019, 821, 465-471.	0.4	9
21	Correlation between the extraction yield of mangiferin to the antioxidant activity, total phenolic and total flavonoid content of Phaleria macrocarpa fruits. Journal of Applied Research on Medicinal and Aromatic Plants, 2019, 14, 100224.	1.5	31
22	Thermal performance enhancement of non-premixed syngas combustion in a partial combustion unit by winged nozzle: Experimental and CFD study. Energy, 2019, 182, 148-158.	8.8	9
23	Acid Hydrolysis of Chitosan to Oligomers Using Hydrochloric Acid. Chemical Engineering and Technology, 2019, 42, 1741-1746.	1.5	28
24	Experimental measurement for non-spherical bulk materials flow behaviour in rectangular enclosure. IOP Conference Series: Materials Science and Engineering, 2019, 701, 012061.	0.6	1
25	Assessment of Maceration, Ultrasonic and Microwave Assisted Extraction for Total Phenolic Content, Total Flavonoid Content and Kaempferol Yield from Cassia alata via Microstructures Analysis. Materials Today: Proceedings, 2019, 19, 1273-1279.	1.8	14
26	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
27	Assessment of Phenolic Compounds Stability and Retention during Spray Drying of <i>Phyllanthus niruri</i> Extracts. Industrial & Engineering Chemistry Research, 2019, 58, 752-761.	3.7	12
28	Orthosiphon stamineus (Java Tea). , 2019, , 327-333.		3
29	Assessment of chlorine leak dispersion around Gebeng industrial area and potential evacuation route. Atmospheric Research, 2019, 216, 117-129.	4.1	20
30	Synthesis and characterization of a La Ni \pm -Al ₂ O ₃ catalyst and its use in pyrolysis of glycerol to syngas. Renewable Energy, 2019, 132, 1389-1401.	8.9	25
31	Effect of Humidity on Formation of Electrospun Polycaprolactone Nanofiber Embedded with Curcumin using Needleless Electrospinning. Materials Today: Proceedings, 2019, 19, 1241-1246.	1.8	6
32	An Overview of Chitosan Nanofibers and their Applications in the Drug Delivery Process. Current Drug Delivery, 2019, 16, 272-294.	1.6	54
33	Effect of Solution Properties and Operating Parameters on Needleless Electrospinning of Poly(Ethylene Oxide) Nanofibers Loaded with Bovine Serum Albumin. Current Drug Delivery, 2019, 16, 913-922.	1.6	17
34	Strengthening Performance of PALF-Epoxy Composite Plate on Reinforced Concrete Beams. IOP Conference Series: Materials Science and Engineering, 2018, 318, 012026.	0.6	9
35	Potential External Strengthening of Reinforced Concrete Beam Using Natural Fiber Composite Plate. Applied Mechanics and Materials, 2018, 878, 41-48.	0.2	8
36	Optimisation of Gallic Acid and Quercetin Extraction from Phyllanthus Niruri. International Journal of Engineering and Technology(UAE), 2018, 7, 90.	0.3	1

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37	Comparison of Microwave and Ultrasonic Assisted Extraction of Kaempferol from Cassia Alata. International Journal of Engineering and Technology(UAE), 2018, 7, 84.	0.3	8
38	INFLUENCE OF ALKALI TREATMENT ON PHYSICO-CHEMICAL PROPERTIES OF MALAYSIAN BAMBOO FIBER: A PRELIMINARY STUDY. Malaysian Journal of Analytical Sciences, 2018, 22, .	0.1	4
39	A Comprehensive Review on <i>Ocimum basilicum</i> . Journal of Natural Remedies, 2018, 18, 71-85.	0.3	70
40	A Computational Fluid Dynamics Study of Turbulence, Radiation, and Combustion Models for Natural Gas Combustion Burner. Bulletin of Chemical Reaction Engineering and Catalysis, 2018, 13, 155.	1.1	4
41	Catalytic pyrolysis of glycerol into syngas over ceria-promoted Ni/Al ₂ O ₃ catalyst. Renewable Energy, 2017, 107, 223-234.	8.9	28
42	Experimental measurement and CFD simulation on the hydrodynamics of an internal-loop airlift reactor. MATEC Web of Conferences, 2017, 111, 01002.	0.2	1
43	Microwave-Irradiation Induced Fast Simultaneous Extraction of Methoxylated and Hydroxylated Phenolic Compounds from <i>Orthosiphon stamineus</i> Leaves. Materials Science Forum, 2017, 890, 155-158.	0.3	8
44	Optimization of Ultrasonic-Assisted Extraction of Polyphenolic and Flavonoids from <i>Labisia pumila</i> . Materials Science Forum, 2017, 890, 167-170.	0.3	4
45	The effect of particle size and solvent type on the gallic acid yield obtained from <i>Labisia pumila</i> by ultrasonic extraction. MATEC Web of Conferences, 2017, 111, 02008.	0.2	10
46	The effect of auxiliary energy on rhein, kaempferol and astragalgin extraction from <i>Cassia alata</i> . MATEC Web of Conferences, 2017, 111, 02009.	0.2	1
47	CFD Simulation on the Hydrodynamics in Gas-Liquid Airlift Reactor. Chemical Product and Process Modeling, 2017, 12, .	0.9	3
48	Magnesium sulphate and L-alanine enhanced the ability of <i>Kluyveromyces marxianus</i> producing bioethanol using oil palm trunk sap. Biofuels, 2017, 8, 595-603.	2.4	8
49	Renewable syngas production from thermal cracking of glycerol over praseodymium-promoted Ni/Al ₂ O ₃ catalyst. Applied Thermal Engineering, 2017, 112, 871-880.	6.0	15
50	Natural Fiber Composites as Potential External Strengthening Material – A Review. Indian Journal of Science and Technology, 2017, 10, .	0.7	18
51	Understanding the Effect of Surface Terrain on Pollution Transport around Gebeng Industrial Area. Indian Journal of Science and Technology, 2017, 10, .	0.7	2
52	Natural Resources Product Prospects - International Conference on Fluids and Chemical Engineering-FluidChE 2017, Malaysia. Indian Journal of Science and Technology, 2017, 10, 1-4.	0.7	18
53	Ultrasonic Assisted Extraction on Phenolic and Flavonoid Content from <i>Phyllanthus niruri</i> Plant. Indian Journal of Science and Technology, 2017, 10, .	0.7	5
54	Potential Use of Bamboo Reinforced Concrete Beams towards Sustainable Construction. , 2017, , .		3

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55	Metformin - A Panacea Pharmaceutical Agent through convergence revolution initiative. <i>Journal of Natural Remedies</i> , 2017, 17, 1-11.	0.3	4
56	Needleless Electrospinning Technology – An Entrepreneurial Perspective. <i>Indian Journal of Science and Technology</i> , 2016, 9, .	0.7	11
57	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
58	Modeling of Methyl Methacrylate Polymerization Using MATLAB. <i>Chemical Product and Process Modeling</i> , 2016, 11, 185-196.	0.9	0
59	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
60	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
61	Microwave Reinforced Transesterification of Rubber Seed Oil Using Waste Cement Clinker Catalyst. <i>Current Nanoscience</i> , 2016, 12, 576-585.	1.2	9
62	Characterization of Ag-promoted Ni/SiO ₂ Catalysts for Syngas Production via Carbon Dioxide (CO ₂) Dry Reforming of Glycerol. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2016, 11, 220-229.	1.1	22
63	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
64	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
65	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
66	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
67	CO ₂ reforming of glycerol over La-Ni/Al ₂ O ₃ catalyst: A longevity evaluative study. <i>Journal of Energy Chemistry</i> , 2015, 24, 366-373.	12.9	30
68	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
69	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
70	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
71	Successive optimisation of waste cooking oil transesterification in a continuous microwave assisted reactor. <i>RSC Advances</i> , 2015, 5, 76743-76751.	3.6	14
72	Syngas production from glycerol-dry(CO ₂) reforming over La-promoted Ni/Al ₂ O ₃ catalyst. <i>Renewable Energy</i> , 2015, 74, 441-447.	8.9	83

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73	ENERGY DISSIPATION REDUCTION USING SIMILARLY-CHARGED POLYMER-SURFACTANT COMPLEX. <i>Advances and Applications in Fluid Mechanics</i> , 2015, 18, 113-128.	0.1	5
74	Synthesis and characterisation of cement clinker-supported nickel catalyst for glycerol dry reforming. <i>Chemical Engineering Journal</i> , 2014, 255, 245-256.	12.7	44
75	Characterization of La-promoted Ni/Al ₂ O ₃ catalysts for hydrogen production from glycerol dry reforming. <i>Journal of Energy Chemistry</i> , 2014, 23, 15-21.	12.9	45
76	Assessment of phenolic compounds stability and retention during spray drying of <i>Orthosiphon stamineus</i> extracts. <i>Food Hydrocolloids</i> , 2014, 37, 159-165.	10.7	86
77	Production of CO-rich hydrogen gas from glycerol dry reforming over La-promoted Ni/Al ₂ O ₃ catalyst. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 6927-6936.	7.1	66
78	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
79	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
80	Transesterification of Waste Cooking Oil using Chemically Treated Catalyst. <i>Journal of Applied Sciences</i> , 2014, 14, 1425-1429.	0.3	5
81	Prediction of Particles-Air Movement in Silo during Filling Operation. <i>Open Journal of Inorganic Non-metallic Materials</i> , 2014, 04, 21-27.	2.7	0
82	Biodiesel Production from Rubber Seed Oil using Activated Cement Clinker as Catalyst. <i>Procedia Engineering</i> , 2013, 53, 13-19.	1.2	64
83	Assessment on Bioavailability of Flavonoids from <i>Orthosiphon Stamineus</i> During Spray Drying. , 2013, , 137-144.		1
84	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
85	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
86	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
87	Detached eddy simulation on the turbulent flow in a stirred tank. <i>AIChE Journal</i> , 2012, 58, 3224-3241.	3.6	52
88	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
89	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
90	A Study of Particle Histories during Spray Drying Using Computational Fluid Dynamic Simulations. <i>Drying Technology</i> , 2010, 28, 566-576.	3.1	45

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91	Application of Computational Fluid Dynamics (CFD) Simulations to Spray-Freezing Operations. <i>Drying Technology</i> , 2009, 28, 94-102.	3.1	18
92	Modelling of mass transfer in gas-liquid stirred tanks agitated by Rushton turbine and CD-6 impeller: A scale-up study. <i>Chemical Engineering Research and Design</i> , 2009, 87, 437-451.	5.6	129
93	Simultaneous Quadrature Method of Moments for the Solution of Population Balance Equations, Using a Differential Algebraic Equation Framework. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 7798-7812.	3.7	51
94	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
95	A CFD study of the effect of cone dimensions on sampling aerocyclones performance and hydrodynamics. <i>Powder Technology</i> , 2006, 162, 126-132.	4.2	176
96	The influence of temperature and inlet velocity on cyclone pressure drop: a CFD study. <i>Chemical Engineering and Processing: Process Intensification</i> , 2005, 44, 7-12.	3.6	170
97	Adsorption of basic dye onto palm kernel shell activated carbon: sorption equilibrium and kinetics studies. <i>Desalination</i> , 2005, 186, 57-64.	8.2	110
98	Prediction of the effects of cone tip diameter on the cyclone performance. <i>Journal of Aerosol Science</i> , 2005, 36, 1056-1065.	3.8	103
99	A CFD Study on the Prediction of Cyclone Collection Efficiency. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2005, 6, 161-168.	2.1	71
100	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
101	The influence of temperature and inlet velocity on cyclone pressure drop: a CFD study. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004, 44, 7-7.	3.6	0
102	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