

Kin Wai Cheah

List of Publications by Year in descending order

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88
papers

4,169
citations

87401

40
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139680

61
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88
all docs

88
docs citations

88
times ranked

4179
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in the catalytic deoxygenation of plant oils and prototypical fatty acid models compounds: Catalysis, process, and kinetics. <i>Molecular Catalysis</i> , 2022, 523, 111469.	1.0	14
2	Overview of biomass conversion to biofuels. , 2022, , 1-48.		1
3	Biomass Energy in Malaysia: Current Scenario, Policies, and Implementation Challenges. <i>Bioenergy Research</i> , 2022, 15, 1371-1386.	2.2	35
4	Synergistic effects of catalytic co-pyrolysis <i>Chlorella vulgaris</i> and polyethylene mixtures using artificial neuron network: Thermodynamic and empirical kinetic analyses. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107391.	3.3	27
5	Machine learning-assisted CO_2 utilization in the catalytic dry reforming of hydrocarbons: Reaction pathways and multicriteria optimization analyses. <i>International Journal of Energy Research</i> , 2022, 46, 6277-6291.	2.2	6
6	Upgrading biocrudes derived from agricultural biomass into advanced biofuels: Perspective from Malaysia. <i>Fuel</i> , 2022, 323, 124300.	3.4	7
7	Review on Conversion of Lignin Waste into Value-Added Resources in Tropical Countries. <i>Waste and Biomass Valorization</i> , 2021, 12, 5285-5302.	1.8	29
8	Techno-economic evaluation of sorption enhanced steam gasification of PKS system for syngas using CaO for CO capture. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 129-134.	0.3	2
9	Five-lump kinetic approach on biofuel production from refined rubber seed oil over Cu/ZSM-5 catalyst via catalytic cracking reaction. <i>Renewable Energy</i> , 2021, 171, 1445-1453.	4.3	6
10	Particle swarm optimization and global sensitivity analysis for catalytic co-pyrolysis of <i>Chlorella vulgaris</i> and plastic waste mixtures. <i>Bioresource Technology</i> , 2021, 329, 124874.	4.8	30
11	Recent advances in green solvents for lignocellulosic biomass pretreatment: Potential of choline chloride (ChCl) based solvents. <i>Bioresource Technology</i> , 2021, 333, 125195.	4.8	59
12	Life-cycle assessment of hydrogen production via catalytic gasification of wheat straw in the presence of straw derived biochar catalyst. <i>Bioresource Technology</i> , 2021, 341, 125796.	4.8	43
13	Valorization of Tropical Biomass Waste by Supercritical Fluid Extraction Technology. <i>Sustainability</i> , 2021, 13, 233.	1.6	25
14	The effect of metal loading over $\text{Ni}/\text{Al}_2\text{O}_3$ and $\text{Mo}/\text{Al}_2\text{O}_3$ catalysts on reaction routes of hydrodeoxygenation of rubber seed oil for green diesel production. <i>Catalysis Today</i> , 2020, 355, 51-64.	2.2	50
15	Monometallic and bimetallic catalysts based on Pd, Cu and Ni for hydrogen transfer deoxygenation of a prototypical fatty acid to diesel range hydrocarbons. <i>Catalysis Today</i> , 2020, 355, 882-892.	2.2	35
16	Process optimization of green diesel selectivity and understanding of reaction intermediates. <i>Renewable Energy</i> , 2020, 149, 1092-1106.	4.3	13
17	Kinetic modelling of hydrogen transfer deoxygenation of a prototypical fatty acid over a bimetallic $\text{Pd}_{60}\text{Cu}_{40}$ catalyst: an investigation of the surface reaction mechanism and rate limiting step. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1682-1693.	1.9	7
18	Application of a solid electrolyte CO_2 sensor to the performance evaluation of CO_2 capture materials. <i>Sensors and Actuators B: Chemical</i> , 2020, 315, 128105.	4.0	14

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19	Fractionation and extraction of bio-oil for production of greener fuel and value-added chemicals: Recent advances and future prospects. <i>Chemical Engineering Journal</i> , 2020, 397, 125406.	6.6	88
20	Biogasoline production from linoleic acid via catalytic cracking over nickel and copper-doped ZSM-5 catalysts. <i>Environmental Research</i> , 2020, 186, 109616.	3.7	24
21	Artificial neural network approach for co-pyrolysis of <i>Chlorella vulgaris</i> and peanut shell binary mixtures using microalgae ash catalyst. <i>Energy</i> , 2020, 207, 118289.	4.5	68
22	Parametric Studies on Hydrodeoxygenation of Rubber Seed Oil for Diesel Range Hydrocarbon Production. <i>Energy & Fuels</i> , 2020, 34, 4603-4617.	2.5	17
23	Supercritical fluid extraction and solubilization of <i>Carica papaya</i> linn. leaves in ternary system with CO ₂ + ethanol solvents. <i>Chemical Engineering Research and Design</i> , 2020, 156, 31-42.	2.7	17
24	Process intensification for the production of canola-based methyl ester via ultrasonic batch reactor: optimization and kinetic study. , 2020, , 27-42.		9
25	Emerging Technologies for Biofuels Production. , 2019, , 45-76.		3
26	Recovery of cellulose fibers from oil palm empty fruit bunch for pulp and paper using green delignification approach. <i>Bioresource Technology</i> , 2019, 290, 121797.	4.8	28
27	An outlook of Malaysian biomass industry commercialisation: Perspectives and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 113, 109277.	8.2	49
28	Microwave vacuum pyrolysis of waste plastic and used cooking oil for simultaneous waste reduction and sustainable energy conversion: Recovery of cleaner liquid fuel and techno-economic analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109359.	8.2	191
29	H-Y zeolite as hydrodeoxygenation catalyst for diesel range hydrocarbon production from rubber seed oil. <i>Materials Today: Proceedings</i> , 2019, 16, 1742-1749.	0.9	13
30	Uncertainty estimation approach in catalytic fast pyrolysis of rice husk: Thermal degradation, kinetic and thermodynamic parameters study. <i>Bioresource Technology</i> , 2019, 294, 122089.	4.8	41
31	Catalytic pyrolysis of <i>Chlorella vulgaris</i> : Kinetic and thermodynamic analysis. <i>Bioresource Technology</i> , 2019, 289, 121689.	4.8	63
32	An overview of biomass thermochemical conversion technologies in Malaysia. <i>Science of the Total Environment</i> , 2019, 680, 105-123.	3.9	125
33	Production of gasoline range hydrocarbons from catalytic cracking of linoleic acid over various acidic zeolite catalysts. <i>Environmental Science and Pollution Research</i> , 2019, 26, 34039-34046.	2.7	11
34	Development of high microwave-absorptive bifunctional graphene oxide-based catalyst for biodiesel production. <i>Energy Conversion and Management</i> , 2019, 180, 1013-1025.	4.4	78
35	Catalytic hydrodeoxygenation of rubber seed oil over sonochemically synthesized Ni-Mo/Al ₂ O ₃ catalyst for green diesel production. <i>Ultrasonics Sonochemistry</i> , 2019, 51, 90-102.	3.8	74
36	In-situ hydrogen generation from 1,2,3,4-tetrahydronaphthalene for catalytic conversion of oleic acid to diesel fuel hydrocarbons: Parametric studies using Response Surface Methodology approach. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20678-20689.	3.8	16

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37	Optimisation Study of Catalytic Cracking of Refined Rubber Seed Oil for Biogasoline Production Using Response Surface Methodology. , 2019, , 171-185.		2
38	Modeling of the co-pyrolysis of rubber residual and HDPE waste using the distributed activation energy model (DAEM). Applied Thermal Engineering, 2018, 138, 336-345.	3.0	40
39	Sustainable green pretreatment approach to biomass-to-energy conversion using natural hydro-low-transition-temperature mixtures. Bioresource Technology, 2018, 261, 361-369.	4.8	35
40	Thermogravimetric kinetic modelling of in-situ catalytic pyrolytic conversion of rice husk to bioenergy using rice hull ash catalyst. Bioresource Technology, 2018, 261, 213-222.	4.8	110
41	Thermogravimetric analysis and kinetic modeling of low-transition-temperature mixtures pretreated oil palm empty fruit bunch for possible maximum yield of pyrolysis oil. Bioresource Technology, 2018, 255, 189-197.	4.8	34
42	Optimization and kinetic study of ultrasonic assisted esterification process from rubber seed oil. Bioresource Technology, 2018, 247, 51-57.	4.8	45
43	Comparative study of in-situ catalytic pyrolysis of rice husk for syngas production: Kinetics modelling and product gas analysis. Journal of Cleaner Production, 2018, 197, 1231-1243.	4.6	79
44	Life Cycle Assessment (LCA) of Production and Fractionation of Bio-Oil Derived from Palm Kernel Shell: a Gate-to-Gate Case Study. Process Integration and Optimization for Sustainability, 2018, 2, 343-351.	1.4	13
45	Extraction of palm kernel shell derived pyrolysis oil by supercritical carbon dioxide: Evaluation and modeling of phenol solubility. Biomass and Bioenergy, 2018, 116, 106-112.	2.9	22
46	Kinetics and thermodynamic analysis in one-pot pyrolysis of rice hull using renewable calcium oxide based catalysts. Bioresource Technology, 2018, 265, 180-190.	4.8	63
47	Metal oxide-catalyzed hydrothermal liquefaction of Malaysian oil palm biomass to bio-oil under supercritical condition. Journal of Supercritical Fluids, 2017, 120, 384-394.	1.6	69
48	Pilot scale intensification of rubber seed (Hevea brasiliensis) oil via chemical interesterification using hydrodynamic cavitation technology. Bioresource Technology, 2017, 242, 272-282.	4.8	42
49	Refining of crude rubber seed oil as a feedstock for biofuel production. Journal of Environmental Management, 2017, 203, 1011-1016.	3.8	10
50	Fractionation of pyrolysis oil via supercritical carbon dioxide extraction: Optimization study using response surface methodology (RSM). Biomass and Bioenergy, 2017, 107, 155-163.	2.9	24
51	Catalytic hydrodeoxygenation of triglycerides: An approach to clean diesel fuel production. Renewable and Sustainable Energy Reviews, 2017, 80, 1072-1088.	8.2	138
52	Choline chloride (ChCl) and monosodium glutamate (MSG)-based green solvents from optimized cactus malic acid for biomass delignification. Bioresource Technology, 2017, 244, 941-948.	4.8	27
53	Process simulation and techno economic analysis of renewable diesel production via catalytic decarboxylation of rubber seed oil – A case study in Malaysia. Journal of Environmental Management, 2017, 203, 950-961.	3.8	37
54	Methyl ester synthesis of Pistacia khinjuk seed oil by ultrasonic-assisted cavitation system. Industrial Crops and Products, 2017, 108, 336-347.	2.5	47

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55	Comparative life cycle assessment (LCA) of bio-oil production from fast pyrolysis and hydrothermal liquefaction of oil palm empty fruit bunch (EFB). <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 1759-1768.	2.1	78
56	Cleaner production of rubber seed oil methyl ester using a hydrodynamic cavitation: optimisation and parametric study. <i>Journal of Cleaner Production</i> , 2016, 136, 31-41.	4.6	79
57	Physio-chemical Studies of Locally Sourced Non-Edible Oil: Prospective Feedstock for Renewable Diesel Production in Malaysia. <i>Procedia Engineering</i> , 2016, 148, 451-458.	1.2	33
58	Parametric Study and Optimization of Methane Production in Biomass Gasification in the Presence of Coal Bottom Ash. <i>Procedia Engineering</i> , 2016, 148, 409-416.	1.2	41
59	Physicochemical Properties of Ni-Mo/ γ -Al ₂ O ₃ Catalysts Synthesized via Sonochemical Method. <i>Procedia Engineering</i> , 2016, 148, 64-71.	1.2	21
60	Bottom Ash Characterization and its Catalytic Potential in Biomass Gasification. <i>Procedia Engineering</i> , 2016, 148, 432-436.	1.2	39
61	Physicochemical Properties of Crude Rubber Seed Oil for Biogasoline Production. <i>Procedia Engineering</i> , 2016, 148, 426-431.	1.2	24
62	Influence of Effective Parameters on Product Gas Ratios in Sorption Enhanced Gasification. <i>Procedia Engineering</i> , 2016, 148, 735-741.	1.2	14
63	Application of response surface methodology to investigate the effect of different variables on conversion of palm kernel shell in steam gasification using coal bottom ash. <i>Applied Energy</i> , 2016, 184, 1306-1315.	5.1	70
64	Overview on the Potential of Coal-Based Bottom Ash as Low-Cost Adsorbents. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1870-1884.	3.2	34
65	Optimisation and Kinetic Studies of Acid Esterification of High Free Fatty Acid Rubber Seed Oil. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 2515-2526.	1.1	39
66	Optimisation on pretreatment of rubber seed (<i>Hevea brasiliensis</i>) oil via esterification reaction in a hydrodynamic cavitation reactor. <i>Bioresource Technology</i> , 2016, 199, 414-422.	4.8	83
67	Effect of process parameters on hydrothermal liquefaction of oil palm biomass for bio-oil production and its life cycle assessment. <i>Energy Conversion and Management</i> , 2015, 104, 180-188.	4.4	110
68	Microwave-assisted methyl esters synthesis of Kapok (<i>Ceiba pentandra</i>) seed oil: parametric and optimization study. <i>Biofuel Research Journal</i> , 2015, 2, 281-287.	7.2	42
69	Comparative studies on catalytic and non-catalytic co-gasification of rubber seed shell and high density polyethylene mixtures. <i>Journal of Cleaner Production</i> , 2014, 70, 303-314.	4.6	61
70	Studies on catalytic pyrolysis of empty fruit bunch (EFB) using Taguchi's L9 Orthogonal Array. <i>Journal of the Energy Institute</i> , 2014, 87, 227-234.	2.7	35
71	Integrated catalytic adsorption (ICA) steam gasification system for enhanced hydrogen production using palm kernel shell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 3286-3293.	3.8	70
72	Bio-oil production from oil palm biomass via subcritical and supercritical hydrothermal liquefaction. <i>Journal of Supercritical Fluids</i> , 2014, 95, 407-412.	1.6	105

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73	Investigation on syngas production via biomass conversion through the integration of pyrolysis and airâ€ steam gasification processes. Energy Conversion and Management, 2014, 87, 670-675.	4.4	120
74	Kinetic studies of co-pyrolysis of rubber seed shell with high density polyethylene. Energy Conversion and Management, 2014, 87, 746-753.	4.4	102
75	Overview on economics and technology development of rubber seed utilisation in Southeast Asia. Clean Technologies and Environmental Policy, 2014, 16, 439-453.	2.1	16
76	Hydrogen production from palm kernel shell via integrated catalytic adsorption (ICA) steam gasification. Energy Conversion and Management, 2014, 87, 1224-1230.	4.4	73
77	Optimization of hydrogen production in in-situ catalytic adsorption (ICA) steam gasification based on Response Surface Methodology. Biomass and Bioenergy, 2014, 60, 98-107.	2.9	68
78	Syngas production from palm kernel shell and polyethylene waste blend in fluidized bed catalytic steam co-gasification process. Energy, 2014, 75, 40-44.	4.5	112
79	Study of fuel properties of rubber seed oil based biodiesel. Energy Conversion and Management, 2014, 78, 266-275.	4.4	169
80	Supply network synthesis on rubber seed oil utilisation as potential biofuel feedstock. Energy, 2013, 55, 82-88.	4.5	42
81	Syngas production from downdraft gasification of oil palm fronds. Energy, 2013, 61, 491-501.	4.5	104
82	Process modeling for parametric study on oil palm empty fruit bunch steam gasification for hydrogen production. Fuel Processing Technology, 2012, 93, 26-34.	3.7	81
83	Heat Integration Study on Biomass Gasification Plant for Hydrogen Production. Journal of Applied Sciences, 2011, 11, 3600-3606.	0.1	7
84	Basic properties of crude rubber seed oil and crude palm oil blend as a potential feedstock for biodiesel production with enhanced cold flow characteristics. Biomass and Bioenergy, 2010, 34, 1523-1526.	2.9	45
85	Biomass Steam Gasification with In-Situ CO ₂ Capture for Enriched Hydrogen Gas Production: A Reaction Kinetics Modelling Approach. Energies, 2010, 3, 1472-1484.	1.6	76
86	Solvent extraction and characterisation of rubber seed oil. International Journal of Postharvest Technology and Innovation, 2009, 1, 376.	0.1	5
87	Performance Study of Ni Catalyst with Quicklime (CaO) as CO ₂ Adsorbent in Palm Kernel Shell Steam Gasification for Hydrogen Production. Advanced Materials Research, 0, 917, 292-300.	0.3	13
88	Effects of Ultrasound Irradiation on Synthesis of Solid Acid Catalysts. Key Engineering Materials, 0, 701, 67-72.	0.4	3