Bridgid Lai Fui Chin

List of Publications by Citations

52 papers	1,033 citations	18 h-index	31 g-index
57 ext. papers	1,493 ext. citations	5.1 avg, IF	4.9 L-index

#	Paper	IF	Citations
52	Comparative studies on the pyrolysis of cellulose, hemicellulose, and lignin based on combined kinetics. *Journal of the Energy Institute*, **2019**, 92, 27-37	5.7	99
51	Syngas production from palm kernel shell and polyethylene waste blend in fluidized bed catalytic steam co-gasification process. *Energy*, **2014**, 75, 40-44	7.9	85
50	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	11	73
49	The effect of industrial waste coal bottom ash as catalyst in catalytic pyrolysis of rice husk for syngas production. *Energy Conversion and Management*, **2018**, 165, 541-554	10.6	69
48	Kinetic Analysis of Rice Husk Pyrolysis Using Kissinger-Akahira-Sunose (KAS) Method. *Procedia Engineering*, **2016**, 148, 1247-1251		67
47	Kinetic studies of co-pyrolysis of rubber seed shell with high density polyethylene. *Energy Conversion and Management*, **2014**, 87, 746-753	10.6	66
46	Hydrogen production from palm kernel shell via integrated catalytic adsorption (ICA) steam gasification. *Energy Conversion and Management*, **2014**, 87, 1224-1230	10.6	61
45	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	10.3	49
44	Comparative studies on catalytic and non-catalytic co-gasification of rubber seed shell and high density polyethylene mixtures. *Journal of Cleaner Production*, **2014**, 70, 303-314	10.3	41
43	Comparative techno-economic assessment and environmental impacts of rice husk-to-fuel conversion technologies. *Energy*, **2018**, 151, 581-593	7.9	36
42	Kinetics and thermodynamic analysis in one-pot pyrolysis of rice hull using renewable calcium oxide based catalysts. *Bioresource Technology*, **2018**, 265, 180-190	11	36
41	Fractionation and extraction of bio-oil for production of greener fuel and value-added chemicals: Recent advances and future prospects. *Chemical Engineering Journal*, **2020**, 397, 125406	14.7	35
40	Catalytic pyrolysis of Chlorella vulgaris: Kinetic and thermodynamic analysis. *Bioresource Technology*, **2019**, 289, 121689	11	33
39	Artificial neural network approach for co-pyrolysis of Chlorella vulgaris and peanut shell binary mixtures using microalgae ash catalyst. *Energy*, **2020**, 207, 118289	7.9	30
38	Synergistic effects of catalytic co-pyrolysis of corn cob and HDPE waste mixtures using weight average global process model. *Renewable Energy*, **2021**, 170, 948-963	8.1	27
37	Uncertainty estimation approach in catalytic fast pyrolysis of rice husk: Thermal degradation, kinetic and thermodynamic parameters study. *Bioresource Technology*, **2019**, 294, 122089	11	24
36	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	5.8	24

35	Recent advances in green solvents for lignocellulosic biomass pretreatment: Potential of choline chloride (ChCl) based solvents. *Bioresource Technology*, **2021**, 333, 125195	11	19
34	Catalytic thermal degradation of Chlorella vulgaris: Evolving deep neural networks for optimization. *Bioresource Technology*, **2019**, 292, 121971	11	18
33	Particle swarm optimization and global sensitivity analysis for catalytic co-pyrolysis of Chlorella vulgaris and plastic waste mixtures. *Bioresource Technology*, **2021**, 329, 124874	11	16
32	Experimental investigation on tar produced from palm shells derived syngas using zeolite HZSM-5 catalyst. *Journal of the Energy Institute*, **2016**, 89, 713-724	5.7	15
31	Performance Study of Ni Catalyst with Quicklime (CaO) as CO2 Adsorbent in Palm Kernel Shell Steam Gasification for Hydrogen Production. *Advanced Materials Research*, **2014**, 917, 292-300	0.5	13
30	Valorization of Tropical Biomass Waste by Supercritical Fluid Extraction Technology. *Sustainability*, **2021**, 13, 233	3.6	13
29	Comparison on tribological properties of vegetable oil upon addition of carbon based nanoparticles. *IOP Conference Series: Materials Science and Engineering*, **2017**, 206, 012043	0.4	9
28	A review on potential of biohydrogen generation through waste decomposition technologies. *Biomass Conversion and Biorefinery*,1	2.3	9
27	Bio-oil production from pyrolysis of oil palm biomass and the upgrading technologies: A review. *Carbon Resources Conversion*, **2021**, 4, 239-250	4.7	8
26	Review on Conversion of Lignin Waste into Value-Added Resources in Tropical Countries. *Waste and Biomass Valorization*, **2020**, 12, 5285	3.2	8
25	Supercritical fluid extraction and solubilization of Carica papaya linn. leaves in ternary system with CO2 + ethanol solvents. *Chemical Engineering Research and Design*, **2020**, 156, 31-42	5.5	7
24	A polyethylene glycol (PEG) polyethersulfone (PES)/multi-walled carbon nanotubes (MWCNTs) polymer blend mixed matrix membrane for CO2/N2 separation. *Journal of Polymer Research*, **2021**, 28, 1	2.7	6
23	An In-Situ Thermogravimetric Study of Pyrolysis of Rice Hull with Alkali Catalyst of CaCO3. *IOP Conference Series: Materials Science and Engineering*, **2018**, 458, 012085	0.4	6
22	Life-cycle assessment of hydrogen production via catalytic gasification of wheat straw in the presence of straw derived biochar catalyst. *Bioresource Technology*, **2021**, 341, 125796	11	6
21	Comparison of rheological properties of graphene / carbon nanotube hydrogenated oil based biodegradable drilling fluid. *IOP Conference Series: Materials Science and Engineering*, **2017**, 206, 012042	0.4	5
20	Extraction of reinforced epoxy nanocomposite using agricultural waste biomass. *IOP Conference Series: Materials Science and Engineering*, **2020**, 943, 012021	0.4	3
19	Comparison Studies of Criado and Coats-Redfern Methods for Co-Gasification of Rubber Seed Shell with High Density Polyethylene Mixtures. *Applied Mechanics and Materials*, **2014**, 472, 621-625	0.3	3
18	Influence of Polymer Blending of Cellulose Acetate Butyrate for CO2/N2 Separation. *Journal of Physical Science*, **2020**, 31, 69-84	2	3

17	The prospect of synthesis of PES/PEG blend membranes using blend NMP/DMF for CO2/N2 separation. *Journal of Polymer Research*, **2021**, 28, 1	2.7	3
16	Kinetic Study on Pyrolysis of Oil Palm Frond. *IOP Conference Series: Materials Science and Engineering*, **2016**, 121, 012004	0.4	2
15	The Study of Rice Husk as Co-Digestion Together with Cow Dung is Biogas Production of Anaerobic Digester. *E3S Web of Conferences*, **2018**, 73, 01013	0.5	2
14	Optimization Study of Catalytic Co-gasification of Rubber Seed Shell and High Density Polyethylene Waste for Hydrogen Production Using Response Surface Methodology **2015**, 209-223		1
13	A Molecular Simulation Study of Silica/Polysulfone Mixed Matrix Membrane for Mixed Gas Separation. *Polymers*, **2021**, 13,	4.5	1
12	Development of novel blend poly (Ethylene Glycol) / Poly(Ethersulfone) polymeric membrane using N-Methyl-2-Pyrollidone and dimethylformamide solvents for facilitating CO2/N2 gas separation. *Materials Today: Proceedings*, **2021**, 46, 1963-1970	1.4	1
11	Machine learning□assisted CO 2 utilization in the catalytic dry reforming of hydrocarbons: Reaction pathways and multicriteria optimization analyses. *International Journal of Energy Research*, **2022**, 46, 6277-6291	4.5	1
10	Nanotechnology and Nanomaterials for Medical Applications. *Materials Horizons*, **2022**, 63-87	0.6	0
9	Synergistic effects of catalytic co-pyrolysis Chlorella vulgaris and polyethylene mixtures using artificial neuron network: Thermodynamic and empirical kinetic analyses. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107391	6.8	0
8	Immobilized enzyme/microorganism complexes for degradation of microplastics: A review of recent advances, feasibility and future prospects.. *Science of the Total Environment*, **2022**, 154868	10.2	0
7	Kinetic Analysis on Catalytic Co-Gasification of Rubber Seed Shell and High Density Polyethylene Mixtures. *Applied Mechanics and Materials*, **2014**, 625, 251-254	0.3	
6	Iso-conversional kinetic and thermodynamic analysis of catalytic pyrolysis for palm oil wastes **2022**, 277-300		
5	Thermogravimetric kinetic analysis of in-situ catalytic pyrolysis of palm oil wastes with the presence of palm oil wastes ash catalyst. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1195, 012010	0.4	
4	Development of poly(ethylene glycol) diacrylate membrane for facilitated CO2/N2 separation. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1195, 012019	0.4	
3	Influence of supercritical CO2 flowrate in one-pot supercritical fluid extraction of Carica papaya linn. leaves: A broken-intact-cell approach. *E3S Web of Conferences*, **2021**, 287, 02012	0.5	
2	Assessing the effects of operating parameters on flocculation of Chlorella vulgaris using bioflocculants extracted from miscellaneous waste biomass. *E3S Web of Conferences*, **2021**, 287, 04004	0.5	
1	A kinetic study of CO2 sorption improvement in the CA-CNTs mixed matrix membrane. *IOP Conference Series: Materials Science and Engineering*, **2018**, 458, 012066	0.4	