

Adrian Chun Minh Loy

List of Publications by Citations

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30
papers

718
citations

16
h-index

26
g-index

32
ext. papers

1,116
ext. citations

8.2
avg, IF

4.66
L-index

#	Paper	IF	Citations
30	An overview of biomass thermochemical conversion technologies in Malaysia. <i>Science of the Total Environment</i> , 2019 , 680, 105-123	10.2	75
29	Thermogravimetric kinetic modelling of in-situ catalytic pyrolytic conversion of rice husk to bioenergy using rice hull ash catalyst. <i>Bioresource Technology</i> , 2018 , 261, 213-222	11	73
28	The effect of industrial waste coal bottom ash as catalyst in catalytic pyrolysis of rice husk for syngas production. <i>Energy Conversion and Management</i> , 2018 , 165, 541-554	10.6	69
27	Artificial neural network approach for the steam gasification of palm oil waste using bottom ash and CaO. <i>Renewable Energy</i> , 2019 , 132, 243-254	8.1	67
26	Development of high microwave-absorptive bifunctional graphene oxide-based catalyst for biodiesel production. <i>Energy Conversion and Management</i> , 2019 , 180, 1013-1025	10.6	54
25	Comparative study of in-situ catalytic pyrolysis of rice husk for syngas production: Kinetics modelling and product gas analysis. <i>Journal of Cleaner Production</i> , 2018 , 197, 1231-1243	10.3	49
24	Kinetics and thermodynamic analysis in one-pot pyrolysis of rice hull using renewable calcium oxide based catalysts. <i>Bioresource Technology</i> , 2018 , 265, 180-190	11	36
23	Catalytic pyrolysis of <i>Chlorella vulgaris</i> : Kinetic and thermodynamic analysis. <i>Bioresource Technology</i> , 2019 , 289, 121689	11	33
22	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	7.9	30
21	Synergistic effects of catalytic co-pyrolysis of corn cob and HDPE waste mixtures using weight average global process model. <i>Renewable Energy</i> , 2021 , 170, 948-963	8.1	27
20	Uncertainty estimation approach in catalytic fast pyrolysis of rice husk: Thermal degradation, kinetic and thermodynamic parameters study. <i>Bioresource Technology</i> , 2019 , 294, 122089	11	24
19	Transition Metal Dichalcogenides for the Application of Pollution Reduction: A Review. <i>Nanomaterials</i> , 2020 , 10,	5.4	24
18	Modeling of the co-pyrolysis of rubber residual and HDPE waste using the distributed activation energy model (DAEM). <i>Applied Thermal Engineering</i> , 2018 , 138, 336-345	5.8	24
17	A hybrid approach to prioritize risk mitigation strategies for biomass polygeneration systems. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 121, 109679	16.2	22
16	Recent advances in green solvents for lignocellulosic biomass pretreatment: Potential of choline chloride (ChCl) based solvents. <i>Bioresource Technology</i> , 2021 , 333, 125195	11	19
15	Catalytic thermal degradation of <i>Chlorella vulgaris</i> : Evolving deep neural networks for optimization. <i>Bioresource Technology</i> , 2019 , 292, 121971	11	18
14	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	11	15

13	A review on environmental assessment of conversion of agriculture waste to bio-energy via different thermochemical routes: Current and future trends. <i>Bioresource Technology Reports</i> , 2021 , 14, 100682	4.1	12
12	Bio-oil production from pyrolysis of oil palm biomass and the upgrading technologies: A review. <i>Carbon Resources Conversion</i> , 2021 , 4, 239-250	4.7	8
11	Review on Conversion of Lignin Waste into Value-Added Resources in Tropical Countries. <i>Waste and Biomass Valorization</i> , 2020 , 12, 5285	3.2	8
10	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	8.5	7
9	Recent advances in the catalytic deoxygenation of plant oils and prototypical fatty acid models compounds: Catalysis, process, and kinetics. <i>Molecular Catalysis</i> , 2021 , 111469	3.3	7
8	An In-Situ Thermogravimetric Study of Pyrolysis of Rice Hull with Alkali Catalyst of CaCO ₃ . <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 458, 012085	0.4	6
7	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	11	6
6	Effect of Empty Fruit Bunch in Calcium Oxide for Cyclic CO ₂ Capture. <i>Chemical Engineering and Technology</i> , 2019 , 42, 1840-1851	2	3
5	A Molecular Simulation Study of Silica/Polysulfone Mixed Matrix Membrane for Mixed Gas Separation. <i>Polymers</i> , 2021 , 13,	4.5	1
4	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	4.5	1
3	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	6.8	0
2	Immobilized enzyme/microorganism complexes for degradation of microplastics: A review of recent advances, feasibility and future prospects.. <i>Science of the Total Environment</i> , 2022 , 154868	10.2	0
1	Iso-conversional kinetic and thermodynamic analysis of catalytic pyrolysis for palm oil wastes 2022 , 277-300		