

Suchithra Thangalazhy-Gopakumar

List of Publications by Year in descending order

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48
papers

2,551
citations

331259

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223531

46
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all docs

49
docs citations

49
times ranked

3244
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of bio-oil additives via molecular signature descriptors using a multi-stage computer-aided molecular design framework. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 168-182.	2.3	9
2	Synthesis of a highly recoverable 3D MnO ₂ /rGO hybrid aerogel for efficient adsorptive separation of pharmaceutical residue. <i>Journal of Environmental Sciences</i> , 2022, 118, 194-203.	3.2	9
3	Insights into the effectiveness of synthetic and natural additives in improving biodiesel oxidation stability. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102296.	1.7	9
4	Utilisation of environmentally friendly okara-based biosorbent for cadmium(II) removal. <i>Environmental Science and Pollution Research</i> , 2021, 28, 40608-40622.	2.7	14
5	Wet torrefaction pre-treatment of yard waste to improve the fuel properties. <i>Materials Science for Energy Technologies</i> , 2021, 4, 211-223.	1.0	5
6	Evaluation of industrial palm oil sludge as an effective green adsorbing substrate for toxic aqueous cadmium removal. <i>Materials Science for Energy Technologies</i> , 2021, 4, 224-235.	1.0	2
7	Investigation of eggshell as catalyst on the torrefaction of empty fruit bunch. <i>Materials Science for Energy Technologies</i> , 2021, 4, 189-201.	1.0	1
8	Usage of a new macro-hierarchical graphene sponge in batch adsorption and packed column configuration for efficient decontamination of cadmium in aqueous environment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106057.	3.3	11
9	Applicability of a novel and highly effective adsorbent derived from industrial palm oil mill sludge for copper sequestration: Central composite design optimisation and adsorption performance evaluation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105968.	3.3	13
10	Sustainable technologies for waste reduction and pollutants removals. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 1-2.	2.1	19
11	Enhancement of fuel properties of yard waste through dry torrefaction. <i>Materials Science for Energy Technologies</i> , 2021, 4, 156-165.	1.0	4
12	Computer-Aided Framework for the Design of Optimal Bio-Oil/Solvent Blend with Economic Considerations. <i>Processes</i> , 2021, 9, 2159.	1.3	3
13	Insight into Co-pyrolysis of Palm Kernel Shell (PKS) with Palm Oil Sludge (POS): Effect on Bio-oil Yield and Properties. <i>Waste and Biomass Valorization</i> , 2020, 11, 5877-5889.	1.8	20
14	Esterification and neutralization of bio-oil from palm empty fruit bunch fibre with calcium oxide. <i>Bioresource Technology Reports</i> , 2020, 12, 100560.	1.5	6
15	Valorisation of oil palm wastes into high yield and energy content biochars via slow pyrolysis: Multivariate process optimisation and combustion kinetic studies. <i>Materials Science for Energy Technologies</i> , 2020, 3, 601-610.	1.0	17
16	Kinetics and mechanisms for catalytic pyrolysis of empty fruit bunch fibre and cellulose with oxides. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	7
17	Utilisation of eco-friendly and low cost 3D graphene-based composite for treatment of aqueous Reactive Black 5 dye: Characterisation, adsorption mechanism and recyclability studies. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 114, 57-66.	2.7	44
18	Special Issue "Green Technologies: Bridging Conventional Practices and Industry 4.0". <i>Processes</i> , 2020, 8, 552.	1.3	1

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19	Facile synthesis of xanthan biopolymer integrated 3D hierarchical graphene oxide/titanium dioxide composite for adsorptive lead removal in wastewater. <i>Bioresource Technology</i> , 2020, 309, 123296.	4.8	58
20	Adsorptive removal of diclofenac by graphene oxide: Optimization, equilibrium, kinetic and thermodynamic studies. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 98, 150-162.	2.7	63
21	Catalytic pyrolysis of cellulose with oxides: effects on physical properties and reaction pathways. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1629-1643.	2.1	15
22	Enhancement of Palm Kernel Shell Fuel Properties via Wet Torrefaction: Response Surface, Optimization, and Combustion Studies. <i>Energy & Fuels</i> , 2019, 33, 11009-11020.	2.5	22
23	Effect of oxide catalysts on the properties of bio-oil from in-situ catalytic pyrolysis of palm empty fruit bunch fiber. <i>Journal of Environmental Management</i> , 2019, 247, 38-45.	3.8	35
24	Design of bio-oil additives using mathematical optimisation tools considering blend functionality and sustainability aspects. <i>Sustainable Production and Consumption</i> , 2019, 19, 53-63.	5.7	10
25	Reactive and non-reactive solvents as bio-oil blends: a computer-aided molecular design approach. <i>Biomass Conversion and Biorefinery</i> , 2019, 11, 1633.	2.9	1
26	Environmental application of three-dimensional graphene materials as adsorbents for dyes and heavy metals: Review on ice-templating method and adsorption mechanisms. <i>Journal of Environmental Sciences</i> , 2019, 79, 174-199.	3.2	136
27	Ice-templated graphene oxide/chitosan aerogel as an effective adsorbent for sequestration of metanil yellow dye. <i>Bioresource Technology</i> , 2019, 274, 134-144.	4.8	99
28	Review on graphene and its derivatives: Synthesis methods and potential industrial implementation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 98, 163-180.	2.7	335
29	Design of bio-oil additives via computer-aided molecular design tools and phase stability analysis on final blends. <i>Computers and Chemical Engineering</i> , 2019, 123, 257-271.	2.0	15
30	Adsorptive decontamination of diclofenac by three-dimensional graphene-based adsorbent: Response surface methodology, adsorption equilibrium, kinetic and thermodynamic studies. <i>Environmental Research</i> , 2019, 168, 241-253.	3.7	132
31	Biosorption. , 2019, , 143-164.		0
32	Review on synthesis of 3D graphene-based configurations and their adsorption performance for hazardous water pollutants. <i>Chemical Engineering Research and Design</i> , 2018, 116, 262-286.	2.7	124
33	Sludge as a relinquishing catalyst in Co-Pyrolysis with palm Empty Fruit Bunch Fiber. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 132, 56-64.	2.6	24
34	Comparison of Bio-Oil Properties from Non-Catalytic and In-Situ Catalytic Fast Pyrolysis of Palm Empty Fruit Bunch. <i>Materials Today: Proceedings</i> , 2018, 5, 23456-23465.	0.9	8
35	Biochar potential evaluation of palm oil wastes through slow pyrolysis: Thermochemical characterization and pyrolytic kinetic studies. <i>Bioresource Technology</i> , 2017, 236, 155-163.	4.8	156
36	Assessment of fish scales waste as a low cost and eco-friendly adsorbent for removal of an azo dye: Equilibrium, kinetic and thermodynamic studies. <i>Bioresource Technology</i> , 2017, 245, 656-664.	4.8	96

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37	Multistage optimizations of slow pyrolysis synthesis of biochar from palm oil sludge for adsorption of lead. <i>Bioresource Technology</i> , 2017, 245, 944-953.	4.8	41
38	Kinetics and Mechanisms for Copyrolysis of Palm Empty Fruit Bunch Fiber (EFBF) with Palm Oil Mill Effluent (POME) Sludge. <i>Energy & Fuels</i> , 2017, 31, 8217-8227.	2.5	31
39	Fast Pyrolysis of Agricultural Wastes for Bio-fuel and Bio-char. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2016, , 301-332.	0.7	2
40	Utilization of palm oil sludge through pyrolysis for bio-oil and bio-char production. <i>Bioresource Technology</i> , 2015, 178, 65-69.	4.8	107
41	Production of Bio-oil from Underutilized Forest Biomass Using an Auger Reactor. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2015, 37, 750-757.	1.2	7
42	Co-Processing of Woody Biomass and Poultry Litter for Bio-Oil Production with High pH. <i>Transactions of the ASABE</i> , 2013, 56, 231-236.	1.1	2
43	Catalytic Pyrolysis of Biomass over H ⁺ ZSM-5 under Hydrogen Pressure. <i>Energy & Fuels</i> , 2012, 26, 5300-5306.	2.5	152
44	Catalytic pyrolysis of green algae for hydrocarbon production using H ⁺ ZSM-5 catalyst. <i>Bioresource Technology</i> , 2012, 118, 150-157.	4.8	255
45	Integrated Forest Biorefineries: Gasification and Pyrolysis for Fuel and Power Production. <i>RSC Green Chemistry</i> , 2012, , 211-255.	0.0	1
46	Influence of Pyrolysis Operating Conditions on Bio-Oil Components: A Microscale Study in a Pyroprobe. <i>Energy & Fuels</i> , 2011, 25, 1191-1199.	2.5	71
47	Production of hydrocarbon fuels from biomass using catalytic pyrolysis under helium and hydrogen environments. <i>Bioresource Technology</i> , 2011, 102, 6742-6749.	4.8	152
48	Physiochemical properties of bio-oil produced at various temperatures from pine wood using an auger reactor. <i>Bioresource Technology</i> , 2010, 101, 8389-8395.	4.8	205