

Murugavelh Somasundaram

List of Publications by Year in descending order

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40
papers

778
citations

623188

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552369

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41
all docs

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docs citations

41
times ranked

776
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on solar photovoltaic thermal integrated desalination technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 141, 110787.	8.2	127
2	Thin layer drying kinetics and exergy analysis of turmeric (<i>Curcuma longa</i>) in a mixed mode forced convection solar tunnel dryer. <i>Renewable Energy</i> , 2018, 128, 305-312.	4.3	113
3	Biodiesel production from waste cotton seed oil using low cost catalyst: Engine performance and emission characteristics. <i>Perspectives in Science</i> , 2016, 8, 237-240.	0.6	53
4	Bioreduction of hexavalent chromium by free cells and cell free extracts of <i>Halomonas</i> sp.. <i>Chemical Engineering Journal</i> , 2012, 203, 415-422.	6.6	44
5	Optimization and transesterification of sterculia oil: Assessment of engine performance, emission and combustion analysis. <i>Journal of Cleaner Production</i> , 2019, 234, 1192-1209.	4.6	38
6	Experimental investigation and kinetics of tomato peel pyrolysis: Performance, combustion and emission characteristics of bio-oil blends in diesel engine. <i>Journal of Cleaner Production</i> , 2020, 254, 120115.	4.6	37
7	Isolation, identification and characterization of Cr(VI) reducing <i>Bacillus cereus</i> from chromium contaminated soil. <i>Chemical Engineering Journal</i> , 2013, 230, 1-9.	6.6	34
8	Performance analysis of a novel augmented desalination and cooling system using modified vapor compression refrigeration integrated with humidification-dehumidification desalination. <i>Journal of Cleaner Production</i> , 2020, 255, 120224.	4.6	32
9	A review on catalytic pyrolysis for high-quality bio-oil production from biomass. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 2595-2614.	2.9	31
10	Co-pyrolysis of microalgae and municipal solid waste: A thermogravimetric study to discern synergy during co-pyrolysis process. <i>Journal of the Energy Institute</i> , 2021, 94, 29-38.	2.7	30
11	Exergy analysis and kinetic study of tomato waste drying in a mixed mode solar tunnel dryer. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 8978-8994.	1.2	25
12	Biodiesel production from waste cotton seed oil: engine performance and emission characteristics. <i>Biofuels</i> , 2016, 7, 689-698.	1.4	18
13	Thermogravimetric study and kinetics of banana peel pyrolysis: a comparison of "model-free" methods. <i>Biofuels</i> , 2022, 13, 129-138.	1.4	18
14	Optimisation, experimental validation and thermodynamic study of the sequential oil extraction and biodiesel production processes from seeds of <i>Sterculia foetida</i> . <i>Environmental Science and Pollution Research</i> , 2019, 26, 31301-31314.	2.7	16
15	Phenol Biodegradation by Indigenous Mixed Microbial Consortium: Growth Kinetics and Inhibition. <i>Environmental Engineering Science</i> , 2012, 29, 86-92.	0.8	15
16	A comprehensive investigation on <i>Spirulina platensis</i> " Part I: Cultivation of biomass, thermo"kinetic modelling, physico"chemical, combustion and emission analyses of bio"oil blends in compression ignition engine. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105231.	3.3	12
17	Methane production from anaerobic mono- and co-digestion of kitchen waste and sewage sludge: synergy study on cumulative methane production and biodegradability. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 3911-3919.	2.9	11
18	A cleaner process for conversion of invasive weed (<i>Prosopis juliflora</i>) into energy-dense fuel: kinetics, energy, and exergy analysis of pyrolysis process. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 3067-3080.	2.9	11

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19	<i>In situ</i> acid catalysed transesterification of biodiesel production from <i>Sterculia foetida</i> oil and seed. International Journal of Green Energy, 2019, 16, 1465-1474.	2.1	10
20	MECHANISM OF Cr(VI) BIOACCUMULATION BY <i>Phanerochaete chrysosporium</i> . Environmental Engineering and Management Journal, 2014, 13, 281-287.	0.2	10
21	Bioreduction of Cr(VI) using live and immobilized <i>Phanerochaete chrysosporium</i> . Desalination and Water Treatment, 2013, 51, 3482-3488.	1.0	9
22	Anaerobic co-digestion of kitchen waste and wastewater sludge: biogas-based power generation. Biofuels, 2018, 9, 157-162.	1.4	9
23	Techno-economic analysis of solar trigeneration system. IOP Conference Series: Earth and Environmental Science, 2019, 312, 012030.	0.2	9
24	Thermochemical conversion of <i>Parthenium hysterophorus</i> biomass for bio-oil synthesis: kinetics and techno-economic analysis. Biomass Conversion and Biorefinery, 2022, 12, 3145-3159.	2.9	9
25	Co-pyrolysis of <i>Juliflora</i> biomass with low-density polyethylene for bio-oil synthesis. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 1134-1149.	1.2	9
26	Non-isothermal kinetic study on coprolysis of <i>Juliflora</i> and low-density polyethylene. Biomass Conversion and Biorefinery, 2021, 11, 2147-2155.	2.9	7
27	Bioreduction of Hexavalent Chromium by Live and Active <i>Phanerochaete chrysosporium</i> : Kinetics and Modeling. Clean - Soil, Air, Water, 2012, 40, 746-751.	0.7	6
28	Discernment of synergy during the co-pyrolysis of lipid-extracted microalgae and digested municipal solid waste: a thermogravimetric-mass spectrometric study. Journal of Chemical Technology and Biotechnology, 2022, 97, 490-500.	1.6	6
29	Non-isothermal conversion of wheat husk and low-density polyethylene for energy dense fuel production. Biomass Conversion and Biorefinery, 2022, 12, 5695-5705.	2.9	5
30	Performance analysis of combined two stage desalination and cooling plant with different solar collectors. , 0, 156, 136-147.		5
31	Performance of <i>Halomonas</i> sp. to reduce hexavalent chromium in batch and continuous fixed film reactor. Journal of Environmental Chemical Engineering, 2018, 6, 2561-2567.	3.3	4
32	Experimental investigation on a cooling cum desalination system using a modified mechanical heat pump. International Journal of Refrigeration, 2022, 143, 138-147.	1.8	4
33	Biodiesel production from reactive extraction of <i>Sterculia</i> and waste cooking oil blend using an acid catalyst. International Journal of Ambient Energy, 0, , 1-6.	1.4	3
34	A hybrid system for power, desalination, and cooling using concentrated photovoltaic/thermal collector. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 1416-1436.	1.2	2
35	Design and analysis of cooling co-generation cycle using aqua-ammonia as working fluid. Thermal Science and Engineering Progress, 2020, 20, 100744.	1.3	2
36	Comparative studies on biodiesel production from Waste Cotton Cooking Oil using alkaline, calcined eggshell and pistachio shell catalyst. , 2016, , .		1

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37	Biodiesel production and characterisation from Punnai oil using egg shell catalyst: engine performance and emission studies. International Journal of Environment and Sustainable Development, 2018, 17, 124.	0.2	1
38	Bio oil production from Agro waste residue: Thermochemical conversion to improve oil quality. IOP Conference Series: Earth and Environmental Science, 2019, 312, 012031.	0.2	1
39	Design and fabricate a solar torrefaction unit to improve the sugarcane bagasse quality for pyrolysis reaction. IOP Conference Series: Earth and Environmental Science, 2019, 312, 012024.	0.2	0
40	Biodiesel production and characterisation from Pongamia oil using low cost Pisthia shell catalyst: engine performance and emission studies. International Journal of Environment and Sustainable Development, 2018, 17, 138.	0.2	0