

Murugavelh Somasundaram

List of Publications by Year in descending order

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papers

778
citations

623188

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552369

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776
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | Thermogravimetric study and kinetics of banana peel pyrolysis: a comparison of "model-free" methods. <i>Biofuels</i> , 2022, 13, 129-138. | 1.4 | 18 |
| 4 | A hybrid system for power, desalination, and cooling using concentrated photovoltaic/thermal collector. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 1416-1436. | 1.2 | 2 |
| 5 | 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 |
| 6 | Non-isothermal conversion of wheat husk and low-density polyethylene for energy dense fuel production. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 5695-5705. | 2.9 | 5 |
| 7 | 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 |
| 8 | Thermochemical conversion of <i>Parthenium hysterophorus</i> biomass for bio-oil synthesis: kinetics and techno-economic analysis. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 3145-3159. | 2.9 | 9 |
| 9 | Discernment of synergy during the co-pyrolysis of lipid-extracted microalgae and digested municipal solid waste: a thermogravimetric-mass spectrometric study. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 490-500. | 1.6 | 6 |
| 10 | Experimental investigation on a cooling cum desalination system using a modified mechanical heat pump. <i>International Journal of Refrigeration</i> , 2022, 143, 138-147. | 1.8 | 4 |
| 11 | Non-isothermal kinetic study on copyrolysis of <i>Juliflora</i> and low-density polyethylene. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 2147-2155. | 2.9 | 7 |
| 12 | 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 |
| 13 | Co-pyrolysis of <i>Juliflora</i> biomass with low-density polyethylene for bio-oil synthesis. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2021, 43, 1134-1149. | 1.2 | 9 |
| 14 | A review on solar photovoltaic thermal integrated desalination technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 141, 110787. | 8.2 | 127 |
| 15 | 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 |
| 16 | Design and analysis of cooling co-generation cycle using aqua-ammonia as working fluid. <i>Thermal Science and Engineering Progress</i> , 2020, 20, 100744. | 1.3 | 2 |
| 17 | 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 |
| 18 | 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 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | 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 |
| 20 | Techno-economic analysis of solar trigeneration system. IOP Conference Series: Earth and Environmental Science, 2019, 312, 012030. | 0.2 | 9 |
| 21 | 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 |
| 22 | <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 |
| 23 | Optimisation, experimental validation and thermodynamic study of the sequential oil extraction and biodiesel production processes from seeds of <i>Sterculia foetida</i> . Environmental Science and Pollution Research, 2019, 26, 31301-31314. | 2.7 | 16 |
| 24 | Optimization and transesterification of sterculia oil: Assessment of engine performance, emission and combustion analysis. Journal of Cleaner Production, 2019, 234, 1192-1209. | 4.6 | 38 |
| 25 | 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 |
| 26 | Anaerobic co-digestion of kitchen waste and wastewater sludge: biogas-based power generation. Biofuels, 2018, 9, 157-162. | 1.4 | 9 |
| 27 | 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 |
| 28 | Thin layer drying kinetics and exergy analysis of turmeric (<i>Curcuma longa</i>) in a mixed mode forced convection solar tunnel dryer. Renewable Energy, 2018, 128, 305-312. | 4.3 | 113 |
| 29 | 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 |
| 30 | Biodiesel production from waste cotton seed oil using low cost catalyst: Engine performance and emission characteristics. Perspectives in Science, 2016, 8, 237-240. | 0.6 | 53 |
| 31 | Comparative studies on biodiesel production from Waste Cotton Cooking Oil using alkaline, calcined eggshell and pistachio shell catalyst. , 2016, , . | | 1 |
| 32 | Biodiesel production from waste cotton seed oil: engine performance and emission characteristics. Biofuels, 2016, 7, 689-698. | 1.4 | 18 |
| 33 | MECHANISM OF Cr(VI) BIOACCUMULATION BY <i>Phanerochaete chrysosporium</i> . Environmental Engineering and Management Journal, 2014, 13, 281-287. | 0.2 | 10 |
| 34 | Isolation, identification and characterization of Cr(VI) reducing <i>Bacillus cereus</i> from chromium contaminated soil. Chemical Engineering Journal, 2013, 230, 1-9. | 6.6 | 34 |
| 35 | Bioreduction of Cr(VI) using live and immobilized <i>Phanerochaete chrysosporium</i> . Desalination and Water Treatment, 2013, 51, 3482-3488. | 1.0 | 9 |
| 36 | Bioreduction of hexavalent chromium by free cells and cell free extracts of <i>Halomonas</i> sp.. Chemical Engineering Journal, 2012, 203, 415-422. | 6.6 | 44 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Phenol Biodegradation by Indigenous Mixed Microbial Consortium: Growth Kinetics and Inhibition. Environmental Engineering Science, 2012, 29, 86-92. | 0.8 | 15 |
| 38 | 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 |
| 39 | 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 |
| 40 | Performance analysis of combined two stage desalination and cooling plant with different solar collectors. , 0, 156, 136-147. | | 5 |