

Ganti S Murthy

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

2,027
citations

279798
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39
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docs citations

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times ranked

2911
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Bioreactor control systems in the biopharmaceutical industry: a critical perspective. Systems Microbiology and Biomanufacturing, 2022, 2, 91-112. | 2.9 | 16 |
| 2 | Techno-economic assessment. , 2022, , 17-32. | | 7 |
| 3 | Solar energy in India. , 2022, , 175-194. | | 0 |
| 4 | Novel system design for high solid lignocellulosic biomass conversion. Bioresource Technology, 2022, 350, 126897. | 9.6 | 4 |
| 5 | Development and characterization of <i>Saccharomyces cerevisiae</i> strains genetically modified to over-express the pentose phosphate pathway regulating transcription factor STB5 in the presence of xylose. Systems Microbiology and Biomanufacturing, 2021, 1, 42-57. | 2.9 | 3 |
| 6 | Using high-throughput data and dynamic flux balance modeling techniques to identify points of constraint in xylose utilization in <i>Saccharomyces cerevisiae</i> . Systems Microbiology and Biomanufacturing, 2021, 1, 58-75. | 2.9 | 7 |
| 7 | Gateway to the perspectives of the Food-Energy-Water nexus. Science of the Total Environment, 2021, 764, 142852. | 8.0 | 42 |
| 8 | A Case Study of Tomato (<i>Solanum lycopersicon</i> var. Legend) Production and Water Productivity in Agrivoltaic Systems. Sustainability, 2021, 13, 2850. | 3.2 | 29 |
| 9 | Per/polyfluoroalkyl substances production, applications and environmental impacts. Bioresource Technology, 2021, 341, 125808. | 9.6 | 46 |
| 10 | Agrivoltaics Align with Green New Deal Goals While Supporting Investment in the USâ€™ Rural Economy. Sustainability, 2021, 13, 137. | 3.2 | 42 |
| 11 | An Automatic Disinfection System for Passenger Luggage at Airports and Train/Bus Stations. , 2020, 5, 295-298. | | 9 |
| 12 | High solids loading biorefinery for the production of cellulosic sugars from bioenergy sorghum. Bioresource Technology, 2020, 318, 124051. | 9.6 | 41 |
| 13 | Systems Analysis Frameworks for Biorefineries. , 2019, , 77-92. | | 8 |
| 14 | A comparative account of glucose yields and bioethanol production from separate and simultaneous saccharification and fermentation processes at high solids loading with variable PEG concentration. Bioresource Technology, 2019, 283, 67-75. | 9.6 | 38 |
| 15 | A novel method for real-time estimation of insoluble solids and glucose concentrations during enzymatic hydrolysis of biomass. Bioresource Technology, 2019, 275, 328-337. | 9.6 | 13 |
| 16 | A regional scale modeling framework combining biogeochemical model with life cycle and economic analysis for integrated assessment of cropping systems. Science of the Total Environment, 2018, 625, 428-439. | 8.0 | 22 |
| 17 | Genome-Scale, Constraint-Based Modeling of Nitrogen Oxide Fluxes during Coculture of <i>Nitrosomonas europaea</i> and <i>Nitrobacter winogradskyi</i> . MSystems, 2018, 3, . | 3.8 | 25 |
| 18 | A regional life cycle assessment and economic analysis of camelina biodiesel production in the Pacific Northwestern US. Journal of Cleaner Production, 2018, 172, 2389-2400. | 9.3 | 32 |

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|----|--|------|-----------|
| 19 | Model predictive control coupled with economic and environmental constraints for optimum algal production. <i>Bioresource Technology</i> , 2018, 250, 556-563. | 9.6 | 16 |
| 20 | Optimization of Surfactant Addition in Cellulosic Ethanol Process Using Integrated Techno-economic and Life Cycle Assessment for Bioprocess Design. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13687-13695. | 6.7 | 30 |
| 21 | A mixed biomass-based energy supply chain for enhancing economic and environmental sustainability benefits: A multi-criteria decision making framework. <i>Applied Energy</i> , 2017, 206, 1088-1101. | 10.1 | 79 |
| 22 | Effect of solids loading on ethanol production: Experimental, economic and environmental analysis. <i>Bioresource Technology</i> , 2017, 244, 108-116. | 9.6 | 39 |
| 23 | A review and future directions in techno-economic modeling and optimization of upstream forest biomass to bio-oil supply chains. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 15-35. | 16.4 | 106 |
| 24 | How does technology pathway choice influence economic viability and environmental impacts of lignocellulosic biorefineries?. <i>Biotechnology for Biofuels</i> , 2017, 10, 268. | 6.2 | 29 |
| 25 | Development and validation of a stochastic molecular model of cellulose hydrolysis by action of multiple cellulase enzymes. <i>Bioresources and Bioprocessing</i> , 2017, 4, . | 4.2 | 11 |
| 26 | Reducing Greenhouse Gas Emissions for Sustainable Bio-Oil Production Using a Mixed Supply Chain. , 2016, , . | | 4 |
| 27 | Genome scale metabolic reconstruction of <i>Chlorella variabilis</i> for exploring its metabolic potential for biofuels. <i>Bioresource Technology</i> , 2016, 213, 103-110. | 9.6 | 37 |
| 28 | Cradle to farm gate life cycle assessment of strawberry production in the United States. <i>Journal of Cleaner Production</i> , 2016, 127, 548-554. | 9.3 | 42 |
| 29 | Improved growth and weed control of glyphosate-tolerant poplars. <i>New Forests</i> , 2016, 47, 653-667. | 1.7 | 13 |
| 30 | Reducing the cost and environmental impact of integrated fixed and mobile bio-oil refinery supply chains. <i>Journal of Cleaner Production</i> , 2016, 113, 495-507. | 9.3 | 46 |
| 31 | A dynamic flux balance model and bottleneck identification of glucose, xylose, xylulose co-fermentation in <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2015, 188, 153-160. | 9.6 | 20 |
| 32 | Economic and cradle-to-gate life cycle assessment of poly-3-hydroxybutyrate production from plastic producing, genetically modified hybrid poplar leaves. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, . | 2.0 | 12 |
| 33 | Optimization of microwave-assisted hot air drying conditions of okra using response surface methodology. <i>Journal of Food Science and Technology</i> , 2014, 51, 221-232. | 2.8 | 68 |
| 34 | Stochastic molecular model of enzymatic hydrolysis of cellulose for ethanol production. <i>Biotechnology for Biofuels</i> , 2013, 6, 63. | 6.2 | 83 |
| 35 | Effects of Environmental Factors and Nutrient Availability on the Biochemical Composition of Algae for Biofuels Production: A Review. <i>Energies</i> , 2013, 6, 4607-4638. | 3.1 | 574 |
| 36 | Environmental impact and cost assessment of incineration and ethanol production as municipal solid waste management strategies. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1502-1512. | 4.7 | 24 |

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|----|--|-----|-----------|
| 37 | Economic feasibility and environmental life cycle assessment of ethanol production from lignocellulosic feedstock in Pacific Northwest U.S.. Journal of Renewable and Sustainable Energy, 2013, 5, . | 2.0 | 30 |
| 38 | Chemical composition and bioethanol potential of different plant species found in Pacific Northwest conservation buffers. Journal of Renewable and Sustainable Energy, 2012, 4, 063114. | 2.0 | 8 |
| 39 | Life cycle assessment of energy and GHG emissions during ethanol production from grass straws using various pretreatment processes. International Journal of Life Cycle Assessment, 2012, 17, 388-401. | 4.7 | 58 |
| 40 | Design and Evaluation of an Optimal Controller for Simultaneous Saccharification and Fermentation Process. Applied Biochemistry and Biotechnology, 2012, 166, 87-111. | 2.9 | 5 |
| 41 | Starch hydrolysis modeling: application to fuel ethanol production. Bioprocess and Biosystems Engineering, 2011, 34, 879-890. | 3.4 | 33 |
| 42 | Impact of pretreatment and downstream processing technologies on economics and energy in cellulosic ethanol production. Biotechnology for Biofuels, 2011, 4, 27. | 6.2 | 264 |
| 43 | Potential for ethanol production from conservation reserve program lands in Oregon. Journal of Renewable and Sustainable Energy, 2011, 3, . | 2.0 | 9 |