

Ganti S Murthy

List of Publications by Year in descending order

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43
papers

2,027
citations

279487

23
h-index

301761

39
g-index

44
all docs

44
docs citations

44
times ranked

2911
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioreactor control systems in the biopharmaceutical industry: a critical perspective. <i>Systems Microbiology and Biomanufacturing</i> , 2022, 2, 91-112.	1.5	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. <i>Bioresource Technology</i> , 2022, 350, 126897.	4.8	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. <i>Systems Microbiology and Biomanufacturing</i> , 2021, 1, 42-57.	1.5	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> . <i>Systems Microbiology and Biomanufacturing</i> , 2021, 1, 58-75.	1.5	7
7	Gateway to the perspectives of the Food-Energy-Water nexus. <i>Science of the Total Environment</i> , 2021, 764, 142852.	3.9	42
8	A Case Study of Tomato (<i>Solanum lycopersicon</i> var. Legend) Production and Water Productivity in Agrivoltaic Systems. <i>Sustainability</i> , 2021, 13, 2850.	1.6	29
9	Per/polyfluoroalkyl substances production, applications and environmental impacts. <i>Bioresource Technology</i> , 2021, 341, 125808.	4.8	46
10	Agrivoltaics Align with Green New Deal Goals While Supporting Investment in the USâ€™ Rural Economy. <i>Sustainability</i> , 2021, 13, 137.	1.6	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. <i>Bioresource Technology</i> , 2020, 318, 124051.	4.8	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. <i>Bioresource Technology</i> , 2019, 283, 67-75.	4.8	38
15	A novel method for real-time estimation of insoluble solids and glucose concentrations during enzymatic hydrolysis of biomass. <i>Bioresource Technology</i> , 2019, 275, 328-337.	4.8	13
16	A regional scale modeling framework combining biogeochemical model with life cycle and economic analysis for integrated assessment of cropping systems. <i>Science of the Total Environment</i> , 2018, 625, 428-439.	3.9	22
17	Genome-Scale, Constraint-Based Modeling of Nitrogen Oxide Fluxes during Coculture of <i>Nitrosomonas europaea</i> and <i>Nitrobacter winogradskyi</i> . <i>MSystems</i> , 2018, 3, .	1.7	25
18	A regional life cycle assessment and economic analysis of camelina biodiesel production in the Pacific Northwestern US. <i>Journal of Cleaner Production</i> , 2018, 172, 2389-2400.	4.6	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.	4.8	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.	3.2	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.	5.1	79
22	Effect of solids loading on ethanol production: Experimental, economic and environmental analysis. <i>Bioresource Technology</i> , 2017, 244, 108-116.	4.8	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.	8.2	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, .	2.0	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.	4.8	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.	4.6	42
29	Improved growth and weed control of glyphosate-tolerant poplars. <i>New Forests</i> , 2016, 47, 653-667.	0.7	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.	4.6	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.	4.8	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, .	0.8	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.	1.4	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.	1.6	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.	2.2	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, .	0.8	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.	0.8	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.	2.2	58
40	Design and Evaluation of an Optimal Controller for Simultaneous Saccharification and Fermentation Process. Applied Biochemistry and Biotechnology, 2012, 166, 87-111.	1.4	5
41	Starch hydrolysis modeling: application to fuel ethanol production. Bioprocess and Biosystems Engineering, 2011, 34, 879-890.	1.7	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, .	0.8	9