

# 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

23  
h-index

302126

39  
g-index

44  
all docs

44  
docs citations

44  
times ranked

2911  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Impact of pretreatment and downstream processing technologies on economics and energy in cellulosic ethanol production. <i>Biotechnology for Biofuels</i> , 2011, 4, 27.	6.2	264
3	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
4	Stochastic molecular model of enzymatic hydrolysis of cellulose for ethanol production. <i>Biotechnology for Biofuels</i> , 2013, 6, 63.	6.2	83
5	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
6	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
7	Life cycle assessment of energy and GHG emissions during ethanol production from grass straws using various pretreatment processes. <i>International Journal of Life Cycle Assessment</i> , 2012, 17, 388-401.	4.7	58
8	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
9	Per/polyfluoroalkyl substances production, applications and environmental impacts. <i>Bioresource Technology</i> , 2021, 341, 125808.	9.6	46
10	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
11	Gateway to the perspectives of the Food-Energy-Water nexus. <i>Science of the Total Environment</i> , 2021, 764, 142852.	8.0	42
12	Agrivoltaics Align with Green New Deal Goals While Supporting Investment in the USâ€™ Rural Economy. <i>Sustainability</i> , 2021, 13, 137.	3.2	42
13	High solids loading biorefinery for the production of cellulosic sugars from bioenergy sorghum. <i>Bioresource Technology</i> , 2020, 318, 124051.	9.6	41
14	Effect of solids loading on ethanol production: Experimental, economic and environmental analysis. <i>Bioresource Technology</i> , 2017, 244, 108-116.	9.6	39
15	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.	9.6	38
16	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
17	Starch hydrolysis modeling: application to fuel ethanol production. <i>Bioprocess and Biosystems Engineering</i> , 2011, 34, 879-890.	3.4	33
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.	9.3	32

#	ARTICLE	IF	CITATIONS
19	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
20	Optimization of Surfactant Addition in Cellulosic Ethanol Process Using Integrated Techno-economic and Life Cycle Assessment for Bioprocess Design. ACS Sustainable Chemistry and Engineering, 2018, 6, 13687-13695.	6.7	30
21	How does technology pathway choice influence economic viability and environmental impacts of lignocellulosic biorefineries?. Biotechnology for Biofuels, 2017, 10, 268.	6.2	29
22	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
23	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
24	Environmental impact and cost assessment of incineration and ethanol production as municipal solid waste management strategies. International Journal of Life Cycle Assessment, 2013, 18, 1502-1512.	4.7	24
25	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
26	A dynamic flux balance model and bottleneck identification of glucose, xylose, xylulose co-fermentation in <i>Saccharomyces cerevisiae</i> . Bioresource Technology, 2015, 188, 153-160.	9.6	20
27	Model predictive control coupled with economic and environmental constraints for optimum algal production. Bioresource Technology, 2018, 250, 556-563.	9.6	16
28	Bioreactor control systems in the biopharmaceutical industry: a critical perspective. Systems Microbiology and Biomanufacturing, 2022, 2, 91-112.	2.9	16
29	Improved growth and weed control of glyphosate-tolerant poplars. New Forests, 2016, 47, 653-667.	1.7	13
30	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
31	Economic and cradle-to-gate life cycle assessment of poly-3-hydroxybutyrate production from plastic producing, genetically modified hybrid poplar leaves. Journal of Renewable and Sustainable Energy, 2014, 6, .	2.0	12
32	Development and validation of a stochastic molecular model of cellulose hydrolysis by action of multiple cellulase enzymes. Bioresources and Bioprocessing, 2017, 4, .	4.2	11
33	Potential for ethanol production from conservation reserve program lands in Oregon. Journal of Renewable and Sustainable Energy, 2011, 3, .	2.0	9
34	An Automatic Disinfection System for Passenger Luggage at Airports and Train/Bus Stations. , 2020, 5, 295-298.		9
35	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
36	Systems Analysis Frameworks for Biorefineries. , 2019, , 77-92.		8

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37	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.	2.9	7
38	Techno-economic assessment. , 2022, , 17-32.		7
39	Design and Evaluation of an Optimal Controller for Simultaneous Saccharification and Fermentation Process. <i>Applied Biochemistry and Biotechnology</i> , 2012, 166, 87-111.	2.9	5
40	Reducing Greenhouse Gas Emissions for Sustainable Bio-Oil Production Using a Mixed Supply Chain. , 2016, , .		4
41	Novel system design for high solid lignocellulosic biomass conversion. <i>Bioresource Technology</i> , 2022, 350, 126897.	9.6	4
42	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.	2.9	3
43	Solar energy in India. , 2022, , 175-194.		0