

Yogendra Shastri

List of Publications by Year in descending order

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68
papers

1,339
citations

331670

21
h-index

377865

34
g-index

68
all docs

68
docs citations

68
times ranked

1463
citing authors

#	ARTICLE	IF	CITATIONS
1	Life-cycle assessment-based comparison of different lignocellulosic ethanol production routes. <i>Biofuels</i> , 2022, 13, 237-247.	2.4	22
2	Life cycle and techno-economic assessment of microalgal biofuels. , 2022, , 547-565.		2
3	Sustainability Challenges and Opportunities in Pectin Extraction from Fruit Waste. <i>ACS Engineering Au</i> , 2022, 2, 61-74.	5.1	28
4	Process Design and Techno-Economic Feasibility Analysis of an Integrated Pineapple Processing Waste Biorefinery. <i>ACS Engineering Au</i> , 2022, 2, 208-218.	5.1	16
5	Sustainability in a global circular economy: Insights on consumer price sensitivity. <i>Journal of Industrial Ecology</i> , 2022, 26, 1094-1107.	5.5	1
6	Sugarcane bagasse valorization to xylitol: Techno-economic and life cycle assessment. <i>Biofuels, Bioproducts and Biorefining</i> , 2022, 16, 1214-1226.	3.7	9
7	Integrated model for Food-Energy-Water (FEW) nexus to study global sustainability: The water compartments and water stress analysis. <i>PLoS ONE</i> , 2022, 17, e0266554.	2.5	2
8	Integrated model for food-energy-water (FEW) nexus to study global sustainability: The main generalized global sustainability model (GGSM). <i>PLoS ONE</i> , 2022, 17, e0267403.	2.5	4
9	Renewable hydrogen and methane production from microalgae: A techno-economic and life cycle assessment study. <i>Journal of Cleaner Production</i> , 2021, 279, 123726.	9.3	57
10	Techno-Economic and Life Cycle Assessment of Pyrolysis of Unsegregated Urban Municipal Solid Waste in India. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 1473-1482.	3.7	33
11	Multi-Objective Optimization of Lignocellulosic Ethanol Production Based on Regional Land and Water Availability. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 1611-1616.	0.5	0
12	Valorization of sugarcane bagasse to lactic acid: Life cycle assessment and Techno-economic evaluation in Indian scenario. <i>Computer Aided Chemical Engineering</i> , 2021, , 1963-1968.	0.5	1
13	Development of System Dynamic Model for Sustainability driven Technology Adoption in Indian Transport Sector. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 939-945.	0.5	0
14	Resiliency considerations in designing commercial scale systems for lignocellulosic ethanol production. <i>Computers and Chemical Engineering</i> , 2021, 147, 107239.	3.8	6
15	Cost reduction approaches for fermentable sugar production from sugarcane bagasse and its impact on techno-economics and the environment. <i>Cellulose</i> , 2021, 28, 6305-6322.	4.9	15
16	Life cycle and economic assessment of sugarcane bagasse valorization to lactic acid. <i>Waste Management</i> , 2021, 126, 52-64.	7.4	35
17	Multi objective optimization of ethanol production based on regional resource availability. <i>Sustainable Production and Consumption</i> , 2021, 27, 1124-1137.	11.0	10
18	Sustainability driven design of lignocellulosic ethanol system highlighting importance of water footprint. <i>Biomass and Bioenergy</i> , 2021, 151, 106174.	5.7	3

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19	Economic and Environmental Assessment of Succinic Acid Production from Sugarcane Bagasse. ACS Sustainable Chemistry and Engineering, 2021, 9, 12738-12746.	6.7	23
20	Thermal and in situ infrared analysis to characterise the slow pyrolysis of mixed municipal solid waste (MSW) and its components. Renewable Energy, 2020, 148, 388-401.	8.9	18
21	Life cycle assessment of ethanol production in a rice-straw-based biorefinery in India. Clean Technologies and Environmental Policy, 2020, 22, 409-422.	4.1	47
22	Constrained iterative learning control of batch transesterification process under uncertainty. Control Engineering Practice, 2020, 103, 104580.	5.5	5
23	A consequence analysis study of natural gas consumption in a developing country: Case of India. Energy Policy, 2020, 145, 111675.	8.8	17
24	Laboratory-Scale Performance of Pyrolysis of Unsegregated Municipal Solid Waste. Industrial & Engineering Chemistry Research, 2020, 59, 22656-22666.	3.7	6
25	Parameter estimation and optimal control of a batch transesterification reactor: An experimental study. Chemical Engineering Research and Design, 2020, 157, 1-12.	5.6	7
26	Efficient optimization of a large-scale biorefinery system using a novel decomposition based approach. Chemical Engineering Research and Design, 2020, 160, 175-189.	5.6	10
27	Stochastic optimization of enzymatic hydrolysis of lignocellulosic biomass. Computers and Chemical Engineering, 2020, 135, 106776.	3.8	7
28	Economic optimization of acid pretreatment: Structural changes and impact on enzymatic hydrolysis. Industrial Crops and Products, 2020, 147, 112236.	5.2	8
29	Sustainable valorization of sugar industry waste: Status, opportunities, and challenges. Bioresource Technology, 2020, 303, 122929.	9.6	112
30	An outlook for dynamic impact assessment of resource depletion at the global level: learnings from regional case studies. Clean Technologies and Environmental Policy, 2020, 22, 745-755.	4.1	4
31	Optimization of a large-scale biorefinery problem by decomposition. Computer Aided Chemical Engineering, 2019, 46, 829-834.	0.5	0
32	Resilient design of biomass to energy system considering uncertainty in biomass supply. Computers and Chemical Engineering, 2019, 131, 106593.	3.8	20
33	Assessment of circular economy for global sustainability using an integrated model. Resources, Conservation and Recycling, 2019, 151, 104460.	10.8	39
34	Multi-objective optimization of sugarcane bagasse utilization in an Indian sugar mill. Sustainable Production and Consumption, 2019, 18, 96-114.	11.0	29
35	Multi-objective optimization of lignocellulosic feedstock selection for ethanol production in India. Journal of Cleaner Production, 2019, 231, 1226-1234.	9.3	12
36	Optimization of cellulose hydrolysis in a non-ideally mixed reactors. Computers and Chemical Engineering, 2019, 128, 340-351.	3.8	3

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37	Catalytic reactive flash volatilisation of microalgae to produce hydrogen or methane-rich syngas. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 326-334.	20.2	22
38	Pyrolysis of mixed municipal solid waste: Characterisation, interaction effect and kinetic modelling using the thermogravimetric approach. <i>Waste Management</i> , 2019, 90, 152-167.	7.4	64
39	Dynamic impact assessment of resource depletion: A case study of natural gas in New Zealand. <i>Sustainable Production and Consumption</i> , 2019, 18, 165-178.	11.0	17
40	Multi-objective optimization of integrated biodiesel production and separation system. <i>Fuel</i> , 2019, 243, 519-532.	6.4	28
41	Deterministic and stochastic optimization of dilute acid pretreatment of sugarcane bagasse. <i>Biofuels</i> , 2019, , 1-12.	2.4	2
42	Conceptual design of a lignocellulosic biorefinery and its supply chain for ethanol production in India. <i>Computers and Chemical Engineering</i> , 2019, 121, 696-721.	3.8	19
43	Assessment of bagasse and trash utilization for ethanol production: A case study in india. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 2165-2174.	2.3	13
44	Optimization of Cellulose Hydrolysis in a Non-ideally Mixed Batch reactor. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 1571-1576.	0.5	0
45	Optimization based design of a resilient biomass to energy system. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 797-802.	0.5	1
46	Optimization based design of an industrial cluster for economic and environmental benefits. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 717-722.	0.5	1
47	Economic analysis and life cycle impact assessment of municipal solid waste (MSW) disposal: A case study of Mumbai, India. <i>Waste Management and Research</i> , 2018, 36, 1177-1189.	3.9	26
48	Optimal control of dilute acid pretreatment and enzymatic hydrolysis for processing lignocellulosic feedstock. <i>Journal of Process Control</i> , 2017, 56, 100-111.	3.3	12
49	Sensitivity analysis and stochastic modelling of lignocellulosic feedstock pretreatment and hydrolysis. <i>Computers and Chemical Engineering</i> , 2017, 106, 23-39.	3.8	8
50	Resiliency optimization of biomass to biofuel supply chain incorporating regional biomass pre-processing depots. <i>Biomass and Bioenergy</i> , 2017, 97, 116-131.	5.7	50
51	Integrated microalgae biorefinery: Impact of product demand profile and prospect of carbon capture. <i>Biofuels, Bioproducts and Biorefining</i> , 2017, 11, 1065-1076.	3.7	6
52	Optimization of integrated microalgal biorefinery producing fuel and value-added products. <i>Biofuels, Bioproducts and Biorefining</i> , 2017, 11, 1030-1050.	3.7	13
53	Renewable energy, bioenergy. <i>Current Opinion in Chemical Engineering</i> , 2017, 17, 42-47.	7.8	16
54	Economic optimization of integrated lignocellulosic biorefinery. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 2503-2508.	0.5	5

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55	Deterministic and Stochastic Optimization of Acid Pretreatment for Lignocellulosic Ethanol Production. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 2149-2154.	0.5	1
56	Impact of protein co-production on techno-economic feasibility of microalgal biodiesel. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 1803-1808.	0.5	5
57	Optimal control of enzymatic hydrolysis of lignocellulosic biomass. <i>Resource-efficient Technologies</i> , 2016, 2, S96-S104.	0.1	23
58	Biomass feedstock preprocessing and long-distance transportation logistics. <i>GCB Bioenergy</i> , 2016, 8, 160-170.	5.6	51
59	Dynamic optimization of a batch transesterification process for biodiesel production. , 2016, , .		2
60	Model-based optimisation of biodiesel production from microalgae. <i>Computers and Chemical Engineering</i> , 2016, 89, 222-249.	3.8	27
61	Advanced control with parameter estimation of batch transesterification reactor. <i>Journal of Process Control</i> , 2015, 33, 127-139.	3.3	19
62	Optimization of novel photobioreactor design using computational fluid dynamics. <i>Applied Energy</i> , 2015, 140, 246-255.	10.1	58
63	Lignocellulosic biomass feedstock transportation alternatives, logistics, equipment configurations, and modeling. <i>Biofuels, Bioproducts and Biorefining</i> , 2012, 6, 351-362.	3.7	111
64	Agent-Based Analysis of Biomass Feedstock Production Dynamics. <i>Bioenergy Research</i> , 2011, 4, 258-275.	3.9	34
65	Development and application of BioFeed model for optimization of herbaceous biomass feedstock production. <i>Biomass and Bioenergy</i> , 2011, 35, 2961-2974.	5.7	44
66	Optimal Control Theory for Sustainable Environmental Management. <i>Environmental Science & Technology</i> , 2008, 42, 5322-5328.	10.0	23
67	Is Sustainability Achievable? Exploring the Limits of Sustainability with Model Systems. <i>Environmental Science & Technology</i> , 2008, 42, 6710-6716.	10.0	27
68	Optimization-based design for lignocellulosic ethanol production: a case study of the state of Maharashtra, India. <i>Clean Technologies and Environmental Policy</i> , 0, , 1.	4.1	0