

Yukesh Kannah R

List of Publications by Year in descending order

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65
papers

2,366
citations

186209

28
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214721

47
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all docs

67
docs citations

67
times ranked

1772
citing authors

#	ARTICLE	IF	CITATIONS
1	Techno-economic assessment of various hydrogen production methods – A review. <i>Bioresource Technology</i> , 2021, 319, 124175.	4.8	249
2	A review on biopolymer production via lignin valorization. <i>Bioresource Technology</i> , 2019, 290, 121790.	4.8	180
3	Lignocellulosic biomass-based pyrolysis: A comprehensive review. <i>Chemosphere</i> , 2022, 286, 131824.	4.2	129
4	Combined thermo-chemo-sonic disintegration of waste activated sludge for biogas production. <i>Bioresource Technology</i> , 2015, 197, 383-392.	4.8	120
5	Biohydrogen production from rice straw: Effect of combinative pretreatment, modelling assessment and energy balance consideration. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2203-2215.	3.8	90
6	Dispersion induced ozone pretreatment of waste activated biosolids: Arriving biomethanation modelling parameters, energetic and cost assessment. <i>Bioresource Technology</i> , 2017, 244, 679-687.	4.8	75
7	Biohythane production from food processing wastes – Challenges and perspectives. <i>Bioresource Technology</i> , 2020, 298, 122449.	4.8	72
8	Biorefinery of spent coffee grounds waste: Viable pathway towards circular bioeconomy. <i>Bioresource Technology</i> , 2020, 302, 122821.	4.8	71
9	Synergetic effect of combined pretreatment for energy efficient biogas generation. <i>Bioresource Technology</i> , 2017, 232, 235-246.	4.8	70
10	Food waste valorization: Biofuels and value added product recovery. <i>Bioresource Technology Reports</i> , 2020, 11, 100524.	1.5	70
11	Impact of pretreatment on food waste for biohydrogen production: A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18211-18225.	3.8	69
12	Algal-based system for removal of emerging pollutants from wastewater: A review. <i>Bioresource Technology</i> , 2022, 344, 126245.	4.8	68
13	Novel insights into scalability of biosurfactant combined microwave disintegration of sludge at alkali pH for achieving profitable bioenergy recovery and net profit. <i>Bioresource Technology</i> , 2018, 267, 281-290.	4.8	58
14	Industrial wastewater to biohydrogen: Possibilities towards successful biorefinery route. <i>Bioresource Technology</i> , 2020, 298, 122378.	4.8	55
15	A critical review on limitations and enhancement strategies associated with biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16565-16590.	3.8	55
16	<i>Marsilea</i> spp. – A novel source of lignocellulosic biomass: Effect of solubilized lignin on anaerobic biodegradability and cost of energy products. <i>Bioresource Technology</i> , 2018, 255, 220-228.	4.8	53
17	Valorization of agricultural residues: Different biorefinery routes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105435.	3.3	50
18	Nanoparticle induced biological disintegration: A new phase separated pretreatment strategy on microalgal biomass for profitable biomethane recovery. <i>Bioresource Technology</i> , 2019, 289, 121624.	4.8	47

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19	Trends and resource recovery in biological wastewater treatment system. <i>Bioresource Technology Reports</i> , 2019, 7, 100235.	1.5	46
20	Integrated biorefinery routes of biohydrogen: Possible utilization of acidogenic fermentative effluent. <i>Bioresource Technology</i> , 2021, 319, 124241.	4.8	46
21	Biological disintegration of microalgae for biomethane recovery-prediction of biodegradability and computation of energy balance. <i>Bioresource Technology</i> , 2017, 244, 1367-1375.	4.8	44
22	Recent advances on biogranules formation in dark hydrogen fermentation system: Mechanism of formation and microbial characteristics. <i>Bioresource Technology</i> , 2018, 268, 787-796.	4.8	42
23	Energetically efficient microwave disintegration of waste activated sludge for biofuel production by zeolite: Quantification of energy and biodegradability modelling. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2274-2288.	3.8	42
24	Disperser-induced bacterial disintegration of partially digested anaerobic sludge for efficient biomethane recovery. <i>Chemical Engineering Journal</i> , 2018, 347, 165-172.	6.6	39
25	Profitable biomethane production from delignified rice straw biomass: the effect of lignin, energy and economic analysis. <i>Green Chemistry</i> , 2020, 22, 8024-8035.	4.6	37
26	A review on anaerobic digestion of energy and cost effective microalgae pretreatment for biogas production. <i>Bioresource Technology</i> , 2021, 332, 125055.	4.8	35
27	A novel energetically efficient combinative microwave pretreatment for achieving profitable hydrogen production from marine macro algae (<i>Ulva reticulata</i>). <i>Bioresource Technology</i> , 2020, 301, 122759.	4.8	32
28	Effect of low intensity sonic mediated fragmentation of anaerobic granules on biosurfactant secreting bacterial pretreatment: Energy and mass balance analysis. <i>Bioresource Technology</i> , 2019, 279, 156-165.	4.8	29
29	Sodium thiosulphate induced immobilized bacterial disintegration of sludge: An energy efficient and cost effective platform for sludge management and biomethanation. <i>Bioresource Technology</i> , 2018, 260, 273-282.	4.8	28
30	Rhamnolipid induced deagglomeration of anaerobic granular biosolids for energetically feasible ultrasonic homogenization and profitable biohydrogen. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5890-5899.	3.8	27
31	Lignocellulosic Biomass Pretreatment for Enhanced Bioenergy Recovery: Effect of Lignocelluloses Recalcitrance and Enhancement Strategies. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	26
32	Biohydrogen production from seagrass via novel energetically efficient ozone coupled rotor stator homogenization. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5881-5889.	3.8	25
33	Cost effective biomethanation via surfactant coupled ultrasonic liquefaction of mixed microalgal biomass harvested from open raceway pond. <i>Bioresource Technology</i> , 2020, 304, 123021.	4.8	20
34	Application of chemo thermal coupled sonic homogenization of marine macroalgal biomass for energy efficient volatile fatty acid recovery. <i>Bioresource Technology</i> , 2020, 303, 122951.	4.8	18
35	Trends in Biological Nutrient Removal for the Treatment of Low Strength Organic Wastewaters. <i>Current Pollution Reports</i> , 2021, 7, 1-30.	3.1	17
36	Ultrasonic induced mechanoacoustic effect on delignification of rice straw for cost effective biopretreatment and biomethane recovery. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1832-1844.	2.5	17

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37	Spent coffee grounds based circular bioeconomy: Technoeconomic and commercialization aspects. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111721.	8.2	17
38	Thermochemical conversion routes of hydrogen production from organic biomass: processes, challenges and limitations. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8509-8534.	2.9	16
39	A review on energy and cost effective phase separated pretreatment of biosolids. <i>Water Research</i> , 2021, 198, 117169.	5.3	16
40	Valorization of food waste for bioethanol and biobutanol production. , 2020, , 39-73.		16
41	A Mini Review of Biochemical Conversion of Algal Biorefinery. <i>Energy & Fuels</i> , 2021, 35, 16995-17007.	2.5	16
42	Profitable sludge management via novel combined ozone disperser pretreatment coupled with membrane bioreactor for treating confectionary wastewater. <i>Journal of Cleaner Production</i> , 2019, 239, 118102.	4.6	15
43	Mild hydrogen peroxide interceded bacterial disintegration of waste activated sludge for efficient biomethane production. <i>Science of the Total Environment</i> , 2022, 817, 152873.	3.9	11
44	Introduction: sources and characterization of food waste and food industry wastes. , 2020, , 1-13.		9
45	Food Waste Valorization by Microalgae. <i>Energy, Environment, and Sustainability</i> , 2018, , 319-342.	0.6	8
46	Effect of Dispersion Treatment on Dairy Waste Activated Sludge to Hasten the Production of Biogas. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	8
47	Production of organic acids and enzymes/biocatalysts from food waste. , 2020, , 119-141.		8
48	Aerobic biodegradation of food wastes. , 2020, , 235-250.		8
49	Polyhydroxyalkanoates synthesis using acidogenic fermentative effluents. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 2079-2092.	3.6	8
50	Profitable disperser coupled surfactant pretreatment of aquatic phytomass for energy efficient solubilization and biomethanation: a study on lignin inhibition and its possible solutions. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3195-3207.	2.5	7
51	Wastewater based microalgae valorization for biofuel and value-added products recovery. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102443.	1.7	7
52	Specialty chemicals and nutraceuticals production from food industry wastes. , 2020, , 189-209.		6
53	Impact of novel deflocculant ZnO/Chitosan nanocomposite film in disperser pretreatment enhancing energy efficient anaerobic digestion: Parameter assessment and cost exploration. <i>Chemosphere</i> , 2022, 286, 131835.	4.2	6
54	Prediction of effective substrate concentration and its impact on biogas production using Artificial Neural Networks in Hybrid Upflow anaerobic Sludge Blanket reactor for treating landfill leachate. <i>Fuel</i> , 2022, 313, 122697.	3.4	6

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55	Recent Developments in Biological Nutrient Removal. Energy, Environment, and Sustainability, 2019, , 211-236.	0.6	4
56	Bioconversion of marine waste biomass for biofuel and value-added products recovery. , 2020, , 481-507.		4
57	Valorization of Nutrient-Rich Urinal Wastewater by Microalgae for Biofuel Production. , 2019, , 393-426.		3
58	Bioenergy recovery from food processing wastewaterâ€™Microbial fuel cell. , 2020, , 251-274.		3
59	Food Waste Properties. , 2021, , 11-41.		3
60	Post-treatment methods for organic solid wastes. , 2019, , 323-362.		3
61	Effect of Solubilization on Acidification, Anaerobic Biodegradability, and Economic Feasibility via Ultrasonicâ€™Zerovalent Ironâ€™Acidic pH Pretreatment of Sludge. Energy & Fuels, 2021, 35, 16617-16628.	2.5	3
62	Activated Sludge Process and Energy. , 2017, , 187-210.		2
63	Biohydrogen. , 2020, , 51-87.		1
64	Introductory Chapter: An Overview of Biogas. , 0, , .		0
65	Analysis and regulation policies of food waste based on circular bioeconomies. , 2020, , 389-400.		0