

Veera Gnaneswar Gude

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111
papers

4,791
citations

36
h-index

68
g-index

112
ext. papers

5,476
ext. citations

7.1
avg, IF

6.94
L-index

#	Paper	IF	Citations
111	Used Water Management from Circular Economy Perspective 2022 , 1861-1884		
110	Sustainable Desalination Using Renewable Energy Sources 2022 , 135-149		
109	Environmental impact assessment of biomass supported electricity generation for sustainable rural energy systems - A case study of Grenada County, Mississippi, USA. <i>Science of the Total Environment</i> , 2022 , 802, 149716	10.2	4
108	Desalination and sustainability 2022 , 197-213		
107	Co-existing Anammox, Ammonium-Oxidizing, and Nitrite-Oxidizing Bacteria in Biocathode-Biofilms Enable Energy-Efficient Nitrogen Removal in a Bioelectrochemical Desalination Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4967-4979	8.3	3
106	Transitioning Wastewater Treatment Plants toward Circular Economy and Energy Sustainability. <i>ACS Omega</i> , 2021 , 6, 11794-11803	3.9	8
105	One water Evolving roles of our precious resource and critical challenges 2021 , 70, 467-482		
104	Electrochemical desalination coupled with energy recovery and storage. <i>Desalination</i> , 2021 , 503, 114929	10.3	2
103	Nuclear cogeneration for cleaner desalination and power generation A feasibility study. <i>Cleaner Engineering and Technology</i> , 2021 , 2, 100044	2.7	5
102	The water, food and energy nexus 2021 , 175-204		1
101	Codigestion and combined heat and power systems energize wastewater treatment plants Analysis and case studies. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 144, 110937	16.2	6
100	Preparing for outbreaks - Implications for resilient water utility operations and services. <i>Sustainable Cities and Society</i> , 2021 , 64, 102558	10.1	16
99	Desalination of deep groundwater for freshwater supplies 2021 , 577-583		
98	Used Water Management from Circular Economy Perspective 2021 , 1-25		
97	Near Future Energy Self-sufficient Wastewater Treatment Schemes. <i>International Journal of Environmental Research</i> , 2020 , 14, 479-488	2.9	13
96	Alkalinity and salinity favor bioelectricity generation potential of Clostridium, Tetrathlobacter and Desulfovibrio consortium in Microbial Fuel Cells (MFC) treating sulfate-laden wastewater. <i>Bioresource Technology</i> , 2020 , 306, 123110	11	21
95	Energy efficiency and renewable energy utilization in desalination systems. <i>Progress in Energy</i> , 2020 , 2, 022003	7.7	16

94	Characteristics of Chitosan Nanoparticles for Water and Wastewater Treatment 2020 , 306-335		
93	Evaluation of energy recovery potential in wastewater treatment based on codigestion and combined heat and power schemes. <i>Energy Conversion and Management</i> , 2020 , 222, 113147	10.6	12
92	Resource recovery from low strength wastewater in a bioelectrochemical desalination process. <i>Engineering in Life Sciences</i> , 2020 , 20, 54-66	3.4	7
91	Wetlands for environmental protection. <i>Water Environment Research</i> , 2020 , 92, 1677-1694	2.8	6
90	Membrane desalination of ballast water using thermoelectric energy from waste heat. <i>Journal of Marine Engineering and Technology</i> , 2020 , 1-8	1.3	1
89	Energy autarky of small scale wastewater treatment plants by enhanced carbon capture and codigestion A quantitative analysis. <i>Energy Conversion and Management</i> , 2019 , 199, 111999	10.6	16
88	Geothermal Desalination 2019 , 647-682		1
87	Accomplishing a N-E-W (nutrient-energy-water) synergy in a bioelectrochemical nitrification-anammox process. <i>Scientific Reports</i> , 2019 , 9, 9201	4.9	14
86	Thermal desalination of ballast water using onboard waste heat in marine industry. <i>International Journal of Energy Research</i> , 2019 , 43, 6026-6037	4.5	6
85	Wetlands for wastewater treatment. <i>Water Environment Research</i> , 2019 , 91, 1378-1389	2.8	23
84	Management Approaches for Desalination and Water Supplies for Drought 2019 , 2295-2313		
83	Technical Approaches for Desalination and Water Supplies for Drought 2019 , 2315-2335		
82	Indigenous biosensors for in situ hydrocarbon detection in aquatic environments. <i>Marine Pollution Bulletin</i> , 2019 , 149, 110643	6.7	7
81	Microbial Desalination Systems for Energy and Resource Recovery 2019 , 999-1020		6
80	Evaluation of anammox biocathode in microbial desalination and wastewater treatment. <i>Chemical Engineering Journal</i> , 2018 , 342, 410-419	14.7	50
79	A microbial desalination process with microalgae biocathode using sodium bicarbonate as an inorganic carbon source. <i>International Biodeterioration and Biodegradation</i> , 2018 , 130, 91-97	4.8	33
78	Water deionization with renewable energy production in microalgae - microbial desalination process. <i>Renewable Energy</i> , 2018 , 122, 354-361	8.1	40
77	Optimization of wet microalgal FAME production from <i>Nannochloropsis</i> sp. under the synergistic microwave and ultrasound effect. <i>International Journal of Energy Research</i> , 2018 , 42, 1934-1949	4.5	29

76	Integrating bioelectrochemical systems for sustainable wastewater treatment. <i>Clean Technologies and Environmental Policy</i> , 2018 , 20, 911-924	4.3	25
75	Energetic evaluation of wastewater treatment using microalgae, <i>Chlorella vulgaris</i> . <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 3213-3222	6.8	36
74	Energy analysis of extractive-transesterification of algal lipids for biocrude production. <i>Biofuels</i> , 2018 , 9, 139-146	2	6
73	Bioelectricity production in photosynthetic microbial desalination cells under different flow configurations. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 58, 131-139	6.3	25
72	Towards Sustainable Wastewater Treatment: A Holistic Study of Energy and Resource Recovery 2018 ,		1
71	Use of exergy tools in renewable energy driven desalination systems. <i>Thermal Science and Engineering Progress</i> , 2018 , 8, 154-170	3.6	21
70	Exergy Evaluation of Desalination Processes. <i>ChemEngineering</i> , 2018 , 2, 28	2.6	15
69	Microbial Fuel Cells as a Platform Technology for Sustainable Wastewater Treatment 2018 , 375-398		1
68	Non-Conventional Feedstock and Technologies for Biodiesel Production. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2018 , 96-118	0.2	
67	Green chemistry with process intensification for sustainable biodiesel production. <i>Environmental Chemistry Letters</i> , 2018 , 16, 327-341	13.3	35
66	Desalination of deep groundwater aquifers for freshwater supplies [Challenges and strategies]. <i>Groundwater for Sustainable Development</i> , 2018 , 6, 87-92	6	26
65	Wetlands for Wastewater Treatment. <i>Water Environment Research</i> , 2018 , 90, 1537-1562	2.8	8
64	Geothermal Source for Water Desalination [Challenges and Opportunities 2018 , 141-176		9
63	Energy Storage for Desalination 2018 , 377-414		8
62	A Critical Evaluation of Advanced Oxidation Processes for Emerging Contaminants Removal. <i>Environmental Processes</i> , 2017 , 4, 283-302	2.8	53
61	Desalination and water reuse to address global water scarcity. <i>Reviews in Environmental Science and Biotechnology</i> , 2017 , 16, 591-609	13.9	112
60	Management Approaches for Desalination and Water Supplies for Drought 2017 , 1-19		
59	Technical Approaches for Desalination and Water Supplies for Drought 2017 , 1-22		

58	Wetlands for Wastewater Treatment. <i>Water Environment Research</i> , 2017 , 89, 1163-1205	2.8	7
57	Assessment of Sustainability Indicators for Biodiesel Production. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 869	2.6	20
56	Geothermal source potential for water desalination [Current status and future perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 57, 1038-1065	16.2	76
55	Determining optimum pulse mode for ultrasound enhanced biodiesel production. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 35, 14-19	6.3	15
54	Alcohol effect on microwave-ultrasound enhanced transesterification reaction. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 101, 1-7	3.7	14
53	Wastewater treatment in microbial fuel cells [An overview. <i>Journal of Cleaner Production</i> , 2016 , 122, 287-307	10.3	326
52	Desalination and sustainability - An appraisal and current perspective. <i>Water Research</i> , 2016 , 89, 87-106	12.5	263
51	Energy aspects of microalgal biodiesel production. <i>AIMS Energy</i> , 2016 , 4, 347-362	1.8	12
50	Wetlands for Wastewater Treatment. <i>Water Environment Research</i> , 2016 , 88, 1160-91	2.8	5
49	Ultrasound-chitosan enhanced flocculation of low algal turbid waters. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 24, 153-160	6.3	17
48	Continuous and pulse sonication effects on transesterification of used vegetable oil. <i>Energy Conversion and Management</i> , 2015 , 96, 268-276	10.6	35
47	Sustainable photosynthetic biocathode in microbial desalination cells. <i>Chemical Engineering Journal</i> , 2015 , 262, 958-965	14.7	73
46	Energy storage for desalination processes powered by renewable energy and waste heat sources. <i>Applied Energy</i> , 2015 , 137, 877-898	10.7	227
45	Wetlands for Wastewater Treatment. <i>Water Environment Research</i> , 2015 , 87, 1095-126	2.8	12
44	Synergism of microwaves and ultrasound for advanced biorefineries. <i>Resource-efficient Technologies</i> , 2015 , 1, 116-125	2	18
43	A New Perspective on Microbiome and Resource Management in Wastewater Systems. <i>Journal of Biotechnology & Biomaterials</i> , 2015 , 05,	0	1
42	Energy and water autarky of wastewater treatment and power generation systems. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 45, 52-68	16.2	199
41	Role of membranes in bioelectrochemical systems. <i>Membrane Water Treatment</i> , 2015 , 6, 53-75		25

40	Green Chemistry of Microwave-Enhanced Biodiesel Production. <i>Biofuels and Biorefineries</i> , 2015 , 225-250.	0.3	1
39	Energy and Resource Recovery from Wastewater via Microbial Desalination Cells. <i>Proceedings of the Water Environment Federation</i> , 2015 , 2015, 1-18		
38	Extractive-transesterification of algal lipids under microwave irradiation with hexane as solvent. <i>Bioresource Technology</i> , 2014 , 156, 240-7	11	60
37	Light and growth medium effect on <i>Chlorella vulgaris</i> biomass production. <i>Journal of Environmental Chemical Engineering</i> , 2014 , 2, 665-674	6.8	117
36	Transesterification of waste vegetable oil under pulse sonication using ethanol, methanol and ethanol-methanol mixtures. <i>Waste Management</i> , 2014 , 34, 2611-20	8.6	31
35	Kinetics of ultrasonic transesterification of waste cooking oil. <i>Environmental Progress and Sustainable Energy</i> , 2014 , 33, 1051-1058	2.5	23
34	Synergistic effect of simultaneous microwave and ultrasound irradiations on transesterification of waste vegetable oil. <i>Fuel</i> , 2014 , 137, 100-108	7.1	52
33	Transesterification of used vegetable oil catalyzed by barium oxide under simultaneous microwave and ultrasound irradiations. <i>Energy Conversion and Management</i> , 2014 , 88, 633-640	10.6	53
32	Thermal energy storage system for energy conservation and water desalination in power plants. <i>Energy</i> , 2014 , 66, 938-949	7.9	49
31	Microwave and ultrasound enhanced extractive-transesterification of algal lipids. <i>Applied Energy</i> , 2014 , 129, 354-363	10.7	95
30	Natural Treatment and Onsite Processes. <i>Water Environment Research</i> , 2014 , 86, 1217-1249	2.8	4
29	Chitosan enhanced coagulation of algal turbid waters [Comparison between rapid mix and ultrasound coagulation methods. <i>Chemical Engineering Journal</i> , 2014 , 244, 403-410	14.7	34
28	Biodiesel from waste cooking oils via direct sonication. <i>Applied Energy</i> , 2013 , 109, 135-144	10.7	84
27	Photosynthetic microbial desalination cells (PMDCs) for clean energy, water and biomass production. <i>Environmental Sciences: Processes and Impacts</i> , 2013 , 15, 2178-85	4.3	74
26	Natural Treatment and Onsite Processes. <i>Water Environment Research</i> , 2013 , 85, 1232-1261	2.8	7
25	Feasibility study of a new two-stage low temperature desalination process. <i>Energy Conversion and Management</i> , 2012 , 56, 192-198	10.6	39
24	Desalination at low temperatures: an exergy analysis. <i>Desalination and Water Treatment</i> , 2012 , 40, 272-281		13
23	Microwave-Enhanced Methods for Biodiesel Production and Other Environmental Applications 2012 , 209-249		3

22	Comparison of direct transesterification of algal biomass under supercritical methanol and microwave irradiation conditions. <i>Fuel</i> , 2012 , 97, 822-831	7.1	149
21	Low temperature desalination using solar collectors augmented by thermal energy storage. <i>Applied Energy</i> , 2012 , 91, 466-474	10.7	108
20	Biodiesel Production from Waste Cooking Oil Using Sulfuric Acid and Microwave Irradiation Processes. <i>Journal of Environmental Protection</i> , 2012 , 03, 107-113	0.6	99
19	Energy consumption and recovery in reverse osmosis. <i>Desalination and Water Treatment</i> , 2011 , 36, 239-260		136
18	Sustainable low temperature desalination: A case for renewable energy. <i>Journal of Renewable and Sustainable Energy</i> , 2011 , 3, 043108	2.5	16
17	Potable water recovery from As, U, and F contaminated ground waters by direct contact membrane distillation process. <i>Journal of Hazardous Materials</i> , 2011 , 192, 1388-94	12.8	72
16	Transesterification kinetics of Camelina sativa oil on metal oxide catalysts under conventional and microwave heating conditions. <i>Chemical Engineering Journal</i> , 2011 , 168, 1296-1300	14.7	90
15	Optimization of direct conversion of wet algae to biodiesel under supercritical methanol conditions. <i>Bioresource Technology</i> , 2011 , 102, 118-22	11	294
14	Optimization of microwave-assisted transesterification of dry algal biomass using response surface methodology. <i>Bioresource Technology</i> , 2011 , 102, 1399-405	11	159
13	Desalination using solar energy: Towards sustainability. <i>Energy</i> , 2011 , 36, 78-85	7.9	91
12	Integrated PV-thermal system for desalination and power production. <i>Desalination and Water Treatment</i> , 2011 , 36, 129-140		15
11	Low temperature process to recover impaired waters. <i>Desalination and Water Treatment</i> , 2010 , 20, 281-290		17
10	Microwave-Assisted Catalytic Transesterification of Camelina Sativa Oil. <i>Energy & Fuels</i> , 2010 , 24, 1298-1304	4.1	86
9	Transesterification of Camelina Sativa Oil using Supercritical and Subcritical Methanol with Cosolvents. <i>Energy & Fuels</i> , 2010 , 24, 746-751	4.1	44
8	Sustainable desalination using solar energy. <i>Energy Conversion and Management</i> , 2010 , 51, 2245-2251	10.6	64
7	Renewable and sustainable approaches for desalination. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 2641-2654	16.2	290
6	Desalination at low temperatures and low pressures. <i>Desalination</i> , 2009 , 244, 239-247	10.3	60
5	Biodiesel Production From Jatropha Curcas, Waste Cooking, and Camelina Sativa Oils. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 10850-10856	3.9	92

4	Combined desalination and solar-assisted air-conditioning system. <i>Energy Conversion and Management</i> , 2008 , 49, 3326-3330	10.6	51
3	Desalination Using Low-Grade Heat Sources. <i>Journal of Energy Engineering - ASCE</i> , 2008 , 134, 95-101	1.7	36
2	Sustainable Biodiesel Production		10
1	Characteristics of Chitosan Nanoparticles for Water and Wastewater Treatment. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 223-261	0.4	1