# Veera Gnaneswar Gude

## List of Publications by Citations



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|---|---|---|---|
| 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 | Wastewater treatment in microbial fuel cells an overview. *Journal of Cleaner Production*, **2016**, 122, 287-307 | 10.3 | 326 |
| 110 | Optimization of direct conversion of wet algae to biodiesel under supercritical methanol conditions. *Bioresource Technology*, **2011**, 102, 118-22 | 11 | 294 |
| 109 | Renewable and sustainable approaches for desalination. *Renewable and Sustainable Energy Reviews* , **2010**, 14, 2641-2654 | 16.2 | 290 |
| 108 | Desalination and sustainability - An appraisal and current perspective. *Water Research*, **2016**, 89, 87-106 | 12.5 | 263 |
| 107 | Energy storage for desalination processes powered by renewable energy and waste heat sources. *Applied Energy*, **2015**, 137, 877-898 | 10.7 | 227 |
| 106 | Energy and water autarky of wastewater treatment and power generation systems. *Renewable and Sustainable Energy Reviews*, **2015**, 45, 52-68 | 16.2 | 199 |
| 105 | Optimization of microwave-assisted transesterification of dry algal biomass using response surface methodology. *Bioresource Technology*, **2011**, 102, 1399-405 | 11 | 159 |
| 104 | Comparison of direct transesterification of algal biomass under supercritical methanol and microwave irradiation conditions. *Fuel*, **2012**, 97, 822-831 | 7.1 | 149 |
| 103 | Energy consumption and recovery in reverse osmosis. *Desalination and Water Treatment*, **2011**, 36, 239-260 | | 136 |
| 102 | Light and growth medium effect on Chlorella vulgaris biomass production. *Journal of Environmental Chemical Engineering*, **2014**, 2, 665-674 | 6.8 | 117 |
| 101 | Desalination and water reuse to address global water scarcity. *Reviews in Environmental Science and Biotechnology*, **2017**, 16, 591-609 | 13.9 | 112 |
| 100 | Low temperature desalination using solar collectors augmented by thermal energy storage. *Applied Energy*, **2012**, 91, 466-474 | 10.7 | 108 |
| 99 | Biodiesel Production from Waste Cooking Oil Using Sulfuric Acid and Microwave Irradiation Processes. *Journal of Environmental Protection*, **2012**, 03, 107-113 | 0.6 | 99 |
| 98 | Microwave and ultrasound enhanced extractive-transesterification of algal lipids. *Applied Energy*, **2014**, 129, 354-363 | 10.7 | 95 |
| 97 | Biodiesel Production from Jatropha Curcas, Waste Cooking, and Camelina Sativa Oils. *Industrial & Engineering Chemistry Research*, **2009**, 48, 10850-10856 | 3.9 | 92 |
| 96 | Desalination using solar energy: Towards sustainability. *Energy*, **2011**, 36, 78-85 | 7.9 | 91 |
| 95 | Transesterification kinetics of Camelina sativa oil on metal oxide catalysts under conventional and microwave heating conditions. *Chemical Engineering Journal*, **2011**, 168, 1296-1300 | 14.7 | 90 |

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| 94 | Microwave-Assisted Catalytic Transesterification of Camelina Sativa Oil. *Energy & Fuels*, **2010**, 24, 1298-1304 | 4.1 | 86 |
| 93 | Biodiesel from waste cooking oils via direct sonication. *Applied Energy*, **2013**, 109, 135-144 | 10.7 | 84 |
| 92 | Geothermal source potential for water desalination Current status and future perspective. *Renewable and Sustainable Energy Reviews*, **2016**, 57, 1038-1065 | 16.2 | 76 |
| 91 | Photosynthetic microbial desalination cells (PMDCs) for clean energy, water and biomass production. *Environmental Sciences: Processes and Impacts*, **2013**, 15, 2178-85 | 4.3 | 74 |
| 90 | Sustainable photosynthetic biocathode in microbial desalination cells. *Chemical Engineering Journal* , **2015**, 262, 958-965 | 14.7 | 73 |
| 89 | Potable water recovery from As, U, and F contaminated ground waters by direct contact membrane distillation process. *Journal of Hazardous Materials*, **2011**, 192, 1388-94 | 12.8 | 72 |
| 88 | Sustainable desalination using solar energy. *Energy Conversion and Management*, **2010**, 51, 2245-2251 | 10.6 | 64 |
| 87 | Extractive-transesterification of algal lipids under microwave irradiation with hexane as solvent. *Bioresource Technology*, **2014**, 156, 240-7 | 11 | 60 |
| 86 | Desalination at low temperatures and low pressures. *Desalination*, **2009**, 244, 239-247 | 10.3 | 60 |
| 85 | A Critical Evaluation of Advanced Oxidation Processes for Emerging Contaminants Removal. *Environmental Processes*, **2017**, 4, 283-302 | 2.8 | 53 |
| 84 | Transesterification of used vegetable oil catalyzed by barium oxide under simultaneous microwave and ultrasound irradiations. *Energy Conversion and Management*, **2014**, 88, 633-640 | 10.6 | 53 |
| 83 | Synergistic effect of simultaneous microwave and ultrasound irradiations on transesterification of waste vegetable oil. *Fuel*, **2014**, 137, 100-108 | 7.1 | 52 |
| 82 | Combined desalination and solar-assisted air-conditioning system. *Energy Conversion and Management*, **2008**, 49, 3326-3330 | 10.6 | 51 |
| 81 | Evaluation of anammox biocathode in microbial desalination and wastewater treatment. *Chemical Engineering Journal*, **2018**, 342, 410-419 | 14.7 | 50 |
| 80 | Thermal energy storage system for energy conservation and water desalination in power plants. *Energy*, **2014**, 66, 938-949 | 7.9 | 49 |
| 79 | Transesterification of Camelina Sativa Oil using Supercritical and Subcritical Methanol with Cosolvents. *Energy & Fuels*, **2010**, 24, 746-751 | 4.1 | 44 |
| 78 | Water deionization with renewable energy production in microalgae - microbial desalination process. *Renewable Energy*, **2018**, 122, 354-361 | 8.1 | 40 |
| 77 | Feasibility study of a new two-stage low temperature desalination process. *Energy Conversion and Management*, **2012**, 56, 192-198 | 10.6 | 39 |

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| 76 | Energetic evaluation of wastewater treatment using microalgae, Chlorella vulgaris. *Journal of Environmental Chemical Engineering*, **2018**, 6, 3213-3222 | 6.8 | 36 |
| 75 | Desalination Using Low-Grade Heat Sources. *Journal of Energy Engineering - ASCE*, **2008**, 134, 95-101 | 1.7 | 36 |
| 74 | Continuous and pulse sonication effects on transesterification of used vegetable oil. *Energy Conversion and Management*, **2015**, 96, 268-276 | 10.6 | 35 |
| 73 | Green chemistry with process intensification for sustainable biodiesel production. *Environmental Chemistry Letters*, **2018**, 16, 327-341 | 13.3 | 35 |
| 72 | Chitosan enhanced coagulation of algal turbid waters Comparison between rapid mix and ultrasound coagulation methods. *Chemical Engineering Journal*, **2014**, 244, 403-410 | 14.7 | 34 |
| 71 | A microbial desalination process with microalgae biocathode using sodium bicarbonate as an inorganic carbon source. *International Biodeterioration and Biodegradation*, **2018**, 130, 91-97 | 4.8 | 33 |
| 70 | Transesterification of waste vegetable oil under pulse sonication using ethanol, methanol and ethanol-methanol mixtures. *Waste Management*, **2014**, 34, 2611-20 | 8.6 | 31 |
| 69 | Optimization of wet microalgal FAME production from Nannochloropsis sp. under the synergistic microwave and ultrasound effect. *International Journal of Energy Research*, **2018**, 42, 1934-1949 | 4.5 | 29 |
| 68 | Desalination of deep groundwater aquifers for freshwater supplies Challenges and strategies. *Groundwater for Sustainable Development*, **2018**, 6, 87-92 | 6 | 26 |
| 67 | Integrating bioelectrochemical systems for sustainable wastewater treatment. *Clean Technologies and Environmental Policy*, **2018**, 20, 911-924 | 4.3 | 25 |
| 66 | Bioelectricity production in photosynthetic microbial desalination cells under different flow configurations. *Journal of Industrial and Engineering Chemistry*, **2018**, 58, 131-139 | 6.3 | 25 |
| 65 | Role of membranes in bioelectrochemical systems. *Membrane Water Treatment*, **2015**, 6, 53-75 | | 25 |
| 64 | Wetlands for wastewater treatment. *Water Environment Research*, **2019**, 91, 1378-1389 | 2.8 | 23 |
| 63 | Kinetics of ultrasonic transesterification of waste cooking oil. *Environmental Progress and Sustainable Energy*, **2014**, 33, 1051-1058 | 2.5 | 23 |
| 62 | Alkalinity and salinity favor bioelectricity generation potential of Clostridium, Tetrathiobacter and Desulfovibrio consortium in Microbial Fuel Cells (MFC) treating sulfate-laden wastewater. *Bioresource Technology*, **2020**, 306, 123110 | 11 | 21 |
| 61 | Use of exergy tools in renewable energy driven desalination systems. *Thermal Science and Engineering Progress*, **2018**, 8, 154-170 | 3.6 | 21 |
| 60 | Assessment of Sustainability Indicators for Biodiesel Production. *Applied Sciences (Switzerland)*, **2017**, 7, 869 | 2.6 | 20 |
| 59 | Synergism of microwaves and ultrasound for advanced biorefineries. *Resource-efficient Technologies*, **2015**, 1, 116-125 | 2 | 18 |

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| 58 | Ultrasound-chitosan enhanced flocculation of low algal turbid waters. *Journal of Industrial and Engineering Chemistry*, **2015**, 24, 153-160 | 6.3 | 17 |
| 57 | Low temperature process to recover impaired waters. *Desalination and Water Treatment*, **2010**, 20, 281-290 | | 17 |
| 56 | Energy autarky of small scale wastewater treatment plants by enhanced carbon capture and codigestion □A quantitative analysis. *Energy Conversion and Management*, **2019**, 199, 111999 | 10.6 | 16 |
| 55 | Energy efficiency and renewable energy utilization in desalination systems. *Progress in Energy*, **2020**, 2, 022003 | 7.7 | 16 |
| 54 | Sustainable low temperature desalination: A case for renewable energy. *Journal of Renewable and Sustainable Energy*, **2011**, 3, 043108 | 2.5 | 16 |
| 53 | Preparing for outbreaks - Implications for resilient water utility operations and services. *Sustainable Cities and Society*, **2021**, 64, 102558 | 10.1 | 16 |
| 52 | Determining optimum pulse mode for ultrasound enhanced biodiesel production. *Journal of Industrial and Engineering Chemistry*, **2016**, 35, 14-19 | 6.3 | 15 |
| 51 | Exergy Evaluation of Desalination Processes. *ChemEngineering*, **2018**, 2, 28 | 2.6 | 15 |
| 50 | Integrated PV-thermal system for desalination and power production. *Desalination and Water Treatment*, **2011**, 36, 129-140 | | 15 |
| 49 | Alcohol effect on microwave-ultrasound enhanced transesterification reaction. *Chemical Engineering and Processing: Process Intensification*, **2016**, 101, 1-7 | 3.7 | 14 |
| 48 | Accomplishing a N-E-W (nutrient-energy-water) synergy in a bioelectrochemical nitritation-anammox process. *Scientific Reports*, **2019**, 9, 9201 | 4.9 | 14 |
| 47 | Near Future Energy Self-sufficient Wastewater Treatment Schemes. *International Journal of Environmental Research*, **2020**, 14, 479-488 | 2.9 | 13 |
| 46 | Desalination at low temperatures: an exergy analysis. *Desalination and Water Treatment*, **2012**, 40, 272-281 | | 13 |
| 45 | Wetlands for Wastewater Treatment. *Water Environment Research*, **2015**, 87, 1095-126 | 2.8 | 12 |
| 44 | Energy aspects of microalgal biodiesel production. *AIMS Energy*, **2016**, 4, 347-362 | 1.8 | 12 |
| 43 | Evaluation of energy recovery potential in wastewater treatment based on codigestion and combined heat and power schemes. *Energy Conversion and Management*, **2020**, 222, 113147 | 10.6 | 12 |
| 42 | Sustainable Biodiesel Production | | 10 |
| 41 | Geothermal Source for Water Desalination□Challenges and Opportunities **2018**, 141-176 | | 9 |

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| 40 | Transitioning Wastewater Treatment Plants toward Circular Economy and Energy Sustainability. *ACS Omega*, **2021**, 6, 11794-11803 | 3.9 | 8 |
| 39 | Wetlands for Wastewater Treatment. *Water Environment Research*, **2018**, 90, 1537-1562 | 2.8 | 8 |
| 38 | Energy Storage for Desalination **2018**, 377-414 | | 8 |
| 37 | Wetlands for Wastewater Treatment. *Water Environment Research*, **2017**, 89, 1163-1205 | 2.8 | 7 |
| 36 | Natural Treatment and Onsite Processes. *Water Environment Research*, **2013**, 85, 1232-1261 | 2.8 | 7 |
| 35 | Resource recovery from low strength wastewater in a bioelectrochemical desalination process. *Engineering in Life Sciences*, **2020**, 20, 54-66 | 3.4 | 7 |
| 34 | Indigenous biosensors for in situ hydrocarbon detection in aquatic environments. *Marine Pollution Bulletin*, **2019**, 149, 110643 | 6.7 | 7 |
| 33 | Energy analysis of extractive-transesterification of algal lipids for biocrude production. *Biofuels*, **2018**, 9, 139-146 | 2 | 6 |
| 32 | Thermal desalination of ballast water using onboard waste heat in marine industry. *International Journal of Energy Research*, **2019**, 43, 6026-6037 | 4.5 | 6 |
| 31 | Wetlands for environmental protection. *Water Environment Research*, **2020**, 92, 1677-1694 | 2.8 | 6 |
| 30 | Codigestion and combined heat and power systems energize wastewater treatment plants  Analysis and case studies. *Renewable and Sustainable Energy Reviews*, **2021**, 144, 110937 | 16.2 | 6 |
| 29 | Microbial Desalination Systems for Energy and Resource Recovery **2019**, 999-1020 | | 6 |
| 28 | Nuclear cogeneration for cleaner desalination and power generation A feasibility study. *Cleaner Engineering and Technology*, **2021**, 2, 100044 | 2.7 | 5 |
| 27 | Wetlands for Wastewater Treatment. *Water Environment Research*, **2016**, 88, 1160-91 | 2.8 | 5 |
| 26 | Natural Treatment and Onsite Processes. *Water Environment Research*, **2014**, 86, 1217-1249 | 2.8 | 4 |
| 25 | Environmental impact assessment of biomass supported electricity generation for sustainable rural energy systems - A case study of Grenada County, Mississippi, USA. *Science of the Total Environment* , **2022**, 802, 149716 | 10.2 | 4 |
| 24 | Microwave-Enhanced Methods for Biodiesel Production and Other Environmental Applications **2012**, 209-249 | | 3 |
| 23 | Co-existing Anammox, Ammonium-Oxidizing, and Nitrite-Oxidizing Bacteria in Biocathode-Biofilms Enable Energy-Efficient Nitrogen Removal in a Bioelectrochemical Desalination Process. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 4967-4979 | 8.3 | 3 |

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| 22 | Electrochemical desalination coupled with energy recovery and storage. *Desalination*, **2021**, 503, 114929 | 10.3 | 2 |
| 21 | Geothermal Desalination **2019**, 647-682 | | 1 |
| 20 | Towards Sustainable Wastewater Treatment: A Holistic Study of Energy and Resource Recovery **2018**, | | 1 |
| 19 | Microbial Fuel Cells as a Platform Technology for Sustainable Wastewater Treatment **2018**, 375-398 | | 1 |
| 18 | A New Perspective on Microbiome and Resource Management in Wastewater Systems. *Journal of Biotechnology & Biomaterials*, **2015**, 05, | 0 | 1 |
| 17 | Characteristics of Chitosan Nanoparticles for Water and Wastewater Treatment. *Advances in Environmental Engineering and Green Technologies Book Series*,223-261 | 0.4 | 1 |
| 16 | Green Chemistry of Microwave-Enhanced Biodiesel Production. *Biofuels and Biorefineries*, **2015**, 225-250 | 0.3 | 1 |
| 15 | Membrane desalination of ballast water using thermoelectric energy from waste heat. *Journal of Marine Engineering and Technology*, **2020**, 1-8 | 1.3 | 1 |
| 14 | The water, food and energy nexus **2021**, 175-204 | | 1 |
| 13 | Management Approaches for Desalination and Water Supplies for Drought **2017**, 1-19 | | |
| 12 | Technical Approaches for Desalination and Water Supplies for Drought **2017**, 1-22 | | |
| 11 | Used Water Management from Circular Economy Perspective **2022**, 1861-1884 | | |
| 10 | Sustainable Desalination Using Renewable Energy Sources **2022**, 135-149 | | |
| 9 | Non-Conventional Feedstock and Technologies for Biodiesel Production. *Advances in Chemical and Materials Engineering Book Series*, **2018**, 96-118 | 0.2 | |
| 8 | Management Approaches for Desalination and Water Supplies for Drought **2019**, 2295-2313 | | |
| 7 | Technical Approaches for Desalination and Water Supplies for Drought **2019**, 2315-2335 | | |
| 6 | Characteristics of Chitosan Nanoparticles for Water and Wastewater Treatment **2020**, 306-335 | | |
| 5 | Energy and Resource Recovery from Wastewater via Microbial Desalination Cells. *Proceedings of the Water Environment Federation*, **2015**, 2015, 1-18 | | |

4 One water Evolving roles of our precious resource and critical challenges **2021**, 70, 467-482

3 Desalination of deep groundwater for freshwater supplies **2021**, 577-583

2 Used Water Management from Circular Economy Perspective **2021**, 1-25

1 Desalination and sustainability **2022**, 197-213