Gopalakrishnan Kumar

List of Publications by Year in Descending Order

337 papers	11,984 citations	61 h-index	87 g-index
356 ext. papers	15,449 ext. citations	7.7 avg, IF	7.27 L-index

#	Paper	IF	Citations
337	Effect of hydrogen on compression-ignition (CI) engine fueled with vegetable oil/biodiesel from various feedstocks: A review. *International Journal of Hydrogen Energy*, **2022**,	6.7	10
336	Influence of alcohol and gaseous fuels on NOx reduction in IC engines **2022**, 347-385		1
335	Recent biotechnological developments in reshaping the microalgal genome: A signal for green recovery in biorefinery practices.. *Chemosphere*, **2022**, 293, 133513	8.4	4
334	Biomass Based Bioenergy: Technologies and Impact on Environmental Sustainability. *Daehan Hwanggyeong Gonghag Hoeji*, **2022**, 44, 1-12	0.6	0
333	Algal-based system for removal of emerging pollutants from wastewater: A review. *Bioresource Technology*, **2022**, 344, 126245	11	9
332	Process optimisation for production and recovery of succinic acid using xylose-rich hydrolysates by Actinobacillus succinogenes. *Bioresource Technology*, **2022**, 344, 126224	11	1
331	Macroalgae (Ulva reticulata) derived biohydrogen recovery through mild surfactant induced energy and cost efficient dispersion pretreatment technology. *Chemosphere*, **2022**, 288, 132463	8.4	1
330	Lignocellulosic biomass-based pyrolysis: A comprehensive review. *Chemosphere*, **2022**, 286, 131824	8.4	26
329	Impact of novel deflocculant ZnO/Chitosan nanocomposite film in disperser pretreatment enhancing energy efficient anaerobic digestion: Parameter assessment and cost exploration. *Chemosphere*, **2022**, 286, 131835	8.4	3
328	State of art of valorising of diverse potential feedstocks for the production of alcohols and ethers: Current changes and perspectives. *Chemosphere*, **2022**, 286, 131587	8.4	5
327	Surfactant induced microwave disintegration for enhanced biohydrogen production from macroalgae biomass: Thermodynamics and Energetics.. *Bioresource Technology*, **2022**, 126904	11	0
326	Progress in microalgal mediated bioremediation systems for the removal of antibiotics and pharmaceuticals from wastewater.. *Science of the Total Environment*, **2022**, 153895	10.2	5
325	Evaluation of performance, emissions and combustion attributes of CI engine using palmyra biodiesel blend with distinct compression ratios, EGR rates and nano-particles. *Fuel*, **2022**, 321, 124092	7.1	2
324	Statistical optimization of operating parameters of microbial electrolysis cell treating dairy industry wastewater using quadratic model to enhance energy generation. *International Journal of Hydrogen Energy*, **2022**,	6.7	1
323	Nutraceutical productions from microalgal derived compounds via circular bioeconomy perspective.. *Bioresource Technology*, **2021**, 126575	11	1
322	Lignocellulosic biomass as an optimistic feedstock for the production of biofuels as valuable energy source: Techno-economic analysis, Environmental Impact Analysis, Breakthrough and Perspectives. *Environmental Technology and Innovation*, **2021**, 102080	7	12
321	Lignocellulosic Biomass Pretreatment for Enhanced Bioenergy Recovery: Effect of Lignocelluloses Recalcitrance and Enhancement Strategies. *Frontiers in Energy Research*, **2021**, 9,	3.8	4

320	Polyhydroxyalkanoates synthesis using acidogenic fermentative effluents. *International Journal of Biological Macromolecules*, **2021**, 193, 2079-2079	7.9	2
319	Regulation and augmentation of anaerobic digestion processes via the use of bioelectrochemical systems.. *Bioresource Technology*, **2021**, 126628	11	4
318	Algae biorefinery: a promising approach to promote microalgae industry and waste utilization.. *Journal of Biotechnology*, **2021**,	3.7	8
317	Effect of Solubilization on Acidification, Anaerobic Biodegradability, and Economic Feasibility via Ultrasonic□erovalent Iron□Acidic pH Pretreatment of Sludge. *Energy & Fuels*, **2021**, 35, 16617-16628	4.1	0
316	Spent coffee grounds based circular bioeconomy: Technoeconomic and commercialization aspects. *Renewable and Sustainable Energy Reviews*, **2021**, 152, 111721	16.2	1
315	A review on enzymes and pathways for manufacturing polyhydroxybutyrate from lignocellulosic materials. *3 Biotech*, **2021**, 11, 483	2.8	0
314	Molecular biology interventions for activity improvement and production of industrial enzymes. *Bioresource Technology*, **2021**, 324, 124596	11	10
313	A review on the factors influencing biohydrogen production from lactate: The key to unlocking enhanced dark fermentative processes. *Bioresource Technology*, **2021**, 324, 124595	11	15
312	Electro-fermentation for biofuels and biochemicals production: Current status and future directions. *Bioresource Technology*, **2021**, 323, 124598	11	25
311	Development of machine learning - based models to forecast solid waste generation in residential areas: A case study from Vietnam. *Resources, Conservation and Recycling*, **2021**, 167, 105381	11.9	22
310	Renewable biohydrogen production from lignocellulosic biomass using fermentation and integration of systems with other energy generation technologies. *Science of the Total Environment* , **2021**, 765, 144429	10.2	54
309	A comprehensive overview and recent advances on polyhydroxyalkanoates (PHA) production using various organic waste streams. *Bioresource Technology*, **2021**, 325, 124685	11	68
308	Tropical fruit waste-derived mesoporous rock-like Fe2O3/C composite fabricated with amphiphilic surfactant-templating approach showing massive potential for high-tech applications. *International Journal of Energy Research*, **2021**, 45, 17417-17430	4.5	4
307	A critical review on limitations and enhancement strategies associated with biohydrogen production. *International Journal of Hydrogen Energy*, **2021**, 46, 16565-16590	6.7	12
306	A review on energy and cost effective phase separated pretreatment of biosolids. *Water Research*, **2021**, 198, 117169	12.5	8
305	A review on anaerobic digestion of energy and cost effective microalgae pretreatment for biogas production. *Bioresource Technology*, **2021**, 332, 125055	11	10
304	Thermochemical splitting of CO2 using solution combustion synthesized lanthanum□trontium□hanganese perovskites. *Fuel*, **2021**, 285, 119154	7.1	4
303	Wastewater based microalgal biorefinery for bioenergy production: Progress and challenges. *Science of the Total Environment*, **2021**, 751, 141599	10.2	93

302	Surfactant induced sonic fission: an effective strategy for biohydrogen recovery from sea grass Syringodiumisoetifolium. *International Journal of Energy Research*, **2021**, 45, 8296-8306	4.5	2
301	Feasibility study of polyetherimide membrane for enrichment of carbon dioxide from synthetic biohydrogen mixture and subsequent utilization scenario using microalgae. *International Journal of Energy Research*, **2021**, 45, 8327-8334	4.5	
300	Techno-economic assessment of various hydrogen production methods - A review. *Bioresource Technology*, **2021**, 319, 124175	11	64
299	Catalytic hydrothermal liquefaction of biomass into bio-oils and other value-added products – A review. *Fuel*, **2021**, 285, 119053	7.1	35
298	An overview on advancements in biobased transesterification methods for biodiesel production: Oil resources, extraction, biocatalysts, and process intensification technologies. *Fuel*, **2021**, 285, 119117	7.1	56
297	Integrated biorefinery routes of biohydrogen: Possible utilization of acidogenic fermentative effluent. *Bioresource Technology*, **2021**, 319, 124241	11	20
296	Trends in Biological Nutrient Removal for the Treatment of Low Strength Organic Wastewaters. *Current Pollution Reports*, **2021**, 7, 1-30	7.6	4
295	Anaerobic co-digestion of oil-extracted spent coffee grounds with various wastes: Experimental and kinetic modeling studies. *Bioresource Technology*, **2021**, 322, 124470	11	20
294	Biogas production from beverage factory wastewater in a mobile bioenergy station. *Chemosphere*, **2021**, 264, 128564	8.4	9
293	Comparative Evaluation of CO2 Fixation of Microalgae Strains at Various CO2 Aeration Conditions. *Waste and Biomass Valorization*, **2021**, 12, 2999-3007	3.2	3
292	Biotechnological valorization of algal biomass: an overview. *Systems Microbiology and Biomanufacturing*, **2021**, 1, 131-141		7
291	Ultrasonic induced mechanoacoustic effect on delignification of rice straw for cost effective biopretreatment and biomethane recovery. *Sustainable Energy and Fuels*, **2021**, 5, 1832-1844	5.8	7
290	Bioelectrochemical system-mediated waste valorization. *Systems Microbiology and Biomanufacturing*, **2021**, 1, 432-443		5
289	Emergent green technologies for cost-effective valorization of microalgal biomass to renewable fuel products under a biorefinery scheme. *Chemical Engineering Journal*, **2021**, 415, 128932	14.7	26
288	Valorization of agricultural residues: Different biorefinery routes. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105435	6.8	22
287	Investigation of four microalgae in nitrogen deficient synthetic wastewater for biorefinery based biofuel production. *Environmental Technology and Innovation*, **2021**, 23, 101572	7	8
286	Electronic waste generation, recycling and resource recovery: Technological perspectives and trends. *Journal of Hazardous Materials*, **2021**, 416, 125664	12.8	31
285	Management of microbial enzymes for biofuels and biogas production by using metagenomic and genome editing approaches. *3 Biotech*, **2021**, 11, 429	2.8	1

284	Lignocellulosic biomass based biorefinery: A successful platform towards circular bioeconomy. *Fuel*, **2021**, 302, 121086	7.1	41
283	Relative evaluation of acid, alkali, and hydrothermal pretreatment influence on biochemical methane potential of date biomass. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106031	6.8	8
282	Mechanistic insights into promoted dewaterability, drying behaviors and methane-producing potential of waste activated sludge by Fe-activated persulfate oxidation. *Journal of Environmental Management*, **2021**, 298, 113429	7.9	5
281	Synthesis of Evalerolactone (GVL) and their applications for lignocellulosic deconstruction for sustainable green biorefineries. *Fuel*, **2021**, 303, 121333	7.1	22
280	A biorefinery approach for high value-added bioproduct (astaxanthin) from alga Haematococcus sp. and residue pyrolysis for biochar synthesis and metallic iron production from hematite (Fe2O3). *Fuel*, **2021**, 304, 121150	7.1	2
279	Sustainable carbonaceous biochar adsorbents derived from agro-wastes and invasive plants for cation dye adsorption from water. *Chemosphere*, **2021**, 282, 131009	8.4	23
278	Potential of microalgae as a sustainable feed ingredient for aquaculture. *Journal of Biotechnology*, **2021**, 341, 1-20	3.7	15
277	Dynamic membrane bioreactor for high rate continuous biohydrogen production from algal biomass. *Bioresource Technology*, **2021**, 340, 125562	11	11
276	Alkali activated persulfate mediated extracellular organic release on enzyme secreting bacterial pretreatment for efficient hydrogen production. *Bioresource Technology*, **2021**, 341, 125810	11	5
275	Waste activated sludge treatment in an anaerobic dynamic membrane bioreactor at varying hydraulic retention time: Performance monitoring and microbial community analysis. *International Journal of Energy Research*, **2020**, 44, 12485-12495	4.5	13
274	Introduction: sources and characterization of food waste and food industry wastes **2020**, 1-13		5
273	State of the art of food waste management in various countries **2020**, 299-323		2
272	Carbon molecular sieve production from defatted spent coffee ground using ZnCl2 and benzene for gas purification. *Fuel*, **2020**, 277, 118183	7.1	9
271	A brief review of anaerobic membrane bioreactors emphasizing recent advancements, fouling issues and future perspectives. *Journal of Environmental Management*, **2020**, 270, 110909	7.9	48
270	Current trends and prospects in microalgae-based bioenergy production. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104025	6.8	28
269	Microbial Electro-Remediation (MER) of hazardous waste in aid of sustainable energy generation and resource recovery. *Environmental Technology and Innovation*, **2020**, 19, 100997	7	20
268	Impact of 5-hydroxy methyl furfural on continuous hydrogen production from galactose and glucose feedstock with periodic recovery. *International Journal of Hydrogen Energy*, **2020**, 45, 19045-19051	6.7	3
267	Generation of electricity by the degradation of electro-Fenton pretreated latex wastewater using double chamber microbial fuel cell. *International Journal of Energy Research*, **2020**, 44, 12496-12505	4.5	8

266	Application of molecular techniques in biohydrogen production as a clean fuel. *Science of the Total Environment*, **2020**, 722, 137795	10.2	20
265	A critical review of pretreatment technologies to enhance anaerobic digestion and energy recovery. *Fuel*, **2020**, 270, 117494	7.1	115
264	Biohydrogen **2020**, 51-87		1
263	Adsorption, degradation, and mineralization of emerging pollutants (pharmaceuticals and agrochemicals) by nanostructures: a comprehensive review. *Environmental Science and Pollution Research*, **2020**, 27, 34862-34905	5.1	12
262	A review on valorization of spent coffee grounds (SCG) towards biopolymers and biocatalysts production. *Bioresource Technology*, **2020**, 314, 123800	11	27
261	Nitrogen-fixing cyanobacteria as a potential resource for efficient biodiesel production. *Fuel*, **2020**, 279, 118440	7.1	9
260	Application of chemo thermal coupled sonic homogenization of marine macroalgal biomass for energy efficient volatile fatty acid recovery. *Bioresource Technology*, **2020**, 303, 122951	11	5
259	Cost effective biomethanation via surfactant coupled ultrasonic liquefaction of mixed microalgal biomass harvested from open raceway pond. *Bioresource Technology*, **2020**, 304, 123021	11	13
258	A review on evaluation of applied pretreatment methods of wastewater towards sustainable H2 generation: Energy efficiency analysis. *International Journal of Hydrogen Energy*, **2020**, 45, 8329-8345	6.7	19
257	Impervious and influence in the liquid fuel production from municipal plastic waste through thermo-chemical biomass conversion technologies - A review. *Science of the Total Environment*, **2020**, 718, 137287	10.2	40
256	Biorefinery of spent coffee grounds waste: Viable pathway towards circular bioeconomy. *Bioresource Technology*, **2020**, 302, 122821	11	41
255	Microalgae based biorefinery promoting circular bioeconomy-techno economic and life-cycle analysis. *Bioresource Technology*, **2020**, 302, 122822	11	88
254	A novel energetically efficient combinative microwave pretreatment for achieving profitable hydrogen production from marine macro algae (Ulva reticulate). *Bioresource Technology*, **2020**, 301, 122759	11	13
253	Constructed Wetlands: An Emerging Green Technology for the Treatment of Industrial Wastewaters. *Microorganisms for Sustainability*, **2020**, 21-44	1.1	3
252	Deployment of Biogas Production Technologies in Emerging Countries **2020**, 395-424		
251	Biodiesel from Scenedesmus species: Engine performance, emission characteristics, corrosion inhibition and bioanalysis. *Fuel*, **2020**, 276, 118074	7.1	15
250	Industrial wastewater to biohydrogen: Possibilities towards successful biorefinery route. *Bioresource Technology*, **2020**, 298, 122378	11	33
249	Experimental study on the effect of cetane improver with turpentine oil on CI engine characteristics. *Fuel*, **2020**, 262, 116551	7.1	13

248	A compressive review on the effects of alcohols and nanoparticles as an oxygenated enhancer in compression ignition engine. *Energy Conversion and Management*, **2020**, 203, 112244	10.6	83
247	Impact of pretreatment on food waste for biohydrogen production: A review. *International Journal of Hydrogen Energy*, **2020**, 45, 18211-18225	6.7	34
246	Microbial approaches for remediation of pollutants: Innovations, future outlook, and challenges. *Energy and Environment*, **2020**, 0958305X1989678	2.4	16
245	Comparative evaluation of biochemical methane potential of various types of Ugandan agricultural biomass following soaking aqueous ammonia pretreatment. *Environmental Science and Pollution Research*, **2020**, 27, 17631-17641	5.1	9
244	Biohythane production from food processing wastes - Challenges and perspectives. *Bioresource Technology*, **2020**, 298, 122449	11	40
243	Possibilities for the biologically-assisted utilization of CO2-rich gaseous waste streams generated during membrane technological separation of biohydrogen. *Journal of CO2 Utilization*, **2020**, 36, 231-243	7.6	14
242	Biobutanol from lignocellulosic biomass: bioprocess strategies **2020**, 169-193		9
241	Spectral, In Vitro Biological, Engine and Emission Performances of Biodiesel Production from Chlorella protothecoides: A Sustainable Renewable Energy Source. *Waste and Biomass Valorization*, **2020**, 11, 5809-5819	3.2	3
240	Various potential techniques to reduce the water footprint of microalgal biomass production for biofuel-A review. *Science of the Total Environment*, **2020**, 749, 142218	10.2	19
239	Decanol proportional effect prediction model as additive in palm biodiesel using ANN and RSM technique for diesel engine. *Energy*, **2020**, 213, 119072	7.9	8
238	Immobilized Chlorella species mixotrophic cultivation at various textile wastewater concentrations. *Journal of Water Process Engineering*, **2020**, 38, 101609	6.7	8
237	Profitable biomethane production from delignified rice straw biomass: the effect of lignin, energy and economic analysis. *Green Chemistry*, **2020**, 22, 8024-8035	10	18
236	Surfactant assisted microwave disintegration of green marine macroalgae for enhanced anaerobic biodegradability and biomethane recovery. *Fuel*, **2020**, 281, 118802	7.1	5
235	Evaluation of the biochemical methane potential of different sorts of Algerian date biomass. *Environmental Technology and Innovation*, **2020**, 20, 101180	7	11
234	Comprehensive study of engine characteristics of novel biodiesel from curry leaf (Murraya koenigii) oil in ceramic layered diesel engine. *Fuel*, **2020**, 280, 118586	7.1	23
233	Fabrication and modeling of prototype bike silencer using hybrid glass and chicken feather fiber/hydroxyapatite reinforced epoxy composites. *Progress in Organic Coatings*, **2020**, 148, 105871	4.8	4
232	Thermochemical conversion routes of hydrogen production from organic biomass: processes, challenges and limitations. *Biomass Conversion and Biorefinery*, **2020**, 1	2.3	7
231	Shift of microbial community structure by substrate level in dynamic membrane bioreactor for biohydrogen production. *International Journal of Energy Research*, **2020**, 45, 17408	4.5	6

230	Facile and low-cost production of Lantana camara stalk-derived porous carbon nanostructures with excellent supercapacitance and adsorption performance. *International Journal of Energy Research*, **2020**, 45, 17440	4.5	3
229	Food waste valorization: Biofuels and value added product recovery. *Bioresource Technology Reports*, **2020**, 11, 100524	4.1	37
228	Comparative effect of silver nanoparticles (AgNPs) derived from actinomycetes and henna on biohydrogen production by Clostridium beijerinckii (KTCC1737). *International Journal of Energy Research*, **2020**, 45, 17269	4.5	4
227	Piper longum Extract-Mediated Green Synthesis of Porous Cu2O:Mo Microspheres and Their Superior Performance as Active Anode Material in Lithium-Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 14557-14567	8.3	8
226	Perspective of safflower (Carthamus tinctorius) as a potential biodiesel feedstock in Turkey: characterization, engine performance and emissions analyses of butanol□biodiesel□diesel blends. *Biofuels*, **2020**, 11, 715-731	2	18
225	Biogas Production from Organic Waste: Recent Progress and Perspectives. *Waste and Biomass Valorization*, **2020**, 11, 1019-1040	3.2	71
224	Biodiesel Potentiality of Microalgae Species: evaluation Using Various Nitrogen Sources. *Waste and Biomass Valorization*, **2020**, 11, 1671-1679	3.2	8
223	Rhamnolipid induced deagglomeration of anaerobic granular biosolids for energetically feasible ultrasonic homogenization and profitable biohydrogen. *International Journal of Hydrogen Energy*, **2020**, 45, 5890-5899	6.7	15
222	Biohydrogen production from seagrass via novel energetically efficient ozone coupled rotor stator homogenization. *International Journal of Hydrogen Energy*, **2020**, 45, 5881-5889	6.7	13
221	Energetically feasible biohydrogen production from sea eelgrass via homogenization through a surfactant, sodium tripolyphosphate. *International Journal of Hydrogen Energy*, **2020**, 45, 5900-5910	6.7	12
220	Characterization of Hemp (Cannabis sativa L.) Biodiesel Blends with Euro Diesel, Butanol and Diethyl Ether Using FT-IR, UV□Vis, TGA and DSC Techniques. *Waste and Biomass Valorization*, **2020**, 11, 1097-1113	3.2	14
219	Recent trends and prospects in biohythane research: An overview. *International Journal of Hydrogen Energy*, **2020**, 45, 5864-5873	6.7	16
218	Immobilized ZnO nano film impelled bacterial disintegration of dairy sludge to enrich anaerobic digestion for profitable bioenergy production: Energetic and economic analysis. *Bioresource Technology*, **2020**, 308, 123276	11	9
217	Review on the production of medium and small chain fatty acids through waste valorization and CO fixation. *Bioresource Technology*, **2020**, 309, 123400	11	17
216	Review on sustainable production of biochar through hydrothermal liquefaction: Physico-chemical properties and applications. *Bioresource Technology*, **2020**, 310, 123414	11	56
215	TiO2 - chitosan thin film induced solar photocatalytic deflocculation of sludge for profitable bacterial pretreatment and biofuel production. *Fuel*, **2020**, 273, 117741	7.1	4
214	A novel Microcystis aeruginosa supported manganese catalyst for hydrogen generation through methanolysis of sodium borohydride. *International Journal of Hydrogen Energy*, **2020**, 45, 12755-12765	6.7	16
213	Fuels properties, characterizations and engine and emission performance analyses of ternary waste cooking oil biodiesel□diesel□propanol blends. *Sustainable Energy Technologies and Assessments*, **2019**, 35, 321-334	4.7	40

212	Cultivation of microalgae Chlorella sp. in municipal sewage for biofuel production and utilization of biochar derived from residue for the conversion of hematite iron ore (Fe2O3) to iron (Fe) Integrated algal biorefinery. *Energy*, **2019**, 189, 116128	7.9	23
211	Anaerobic membrane bioreactor towards biowaste biorefinery and chemical energy harvest: Recent progress, membrane fouling and future perspectives. *Renewable and Sustainable Energy Reviews*, **2019**, 115, 109392	16.2	57
210	Wheat straw extracted lignin in silver nanoparticles synthesis: Expanding its prophecy towards antineoplastic potency and hydrogen peroxide sensing ability. *International Journal of Biological Macromolecules*, **2019**, 128, 391-400	7.9	58
209	Biofouling of membranes in microbial electrochemical technologies: Causes, characterization methods and mitigation strategies. *Bioresource Technology*, **2019**, 279, 327-338	11	56
208	Optimization of soaking in aqueous ammonia pretreatment for anaerobic digestion of African maize bran. *Fuel*, **2019**, 253, 552-560	7.1	11
207	Valorization of Nutrient-Rich Urinal Wastewater by Microalgae for Biofuel Production **2019**, 393-426		3
206	Transesterification and fuel characterization of rice bran oil: A biorefinery path. *Fuel*, **2019**, 253, 975-987	7.1	12
205	Investigation of novel Pistacia khinjuk biodiesel in DI diesel engine with post combustion capture system. *Applied Thermal Engineering*, **2019**, 159, 113969	5.8	42
204	Valorization of spent coffee grounds into biofuels and value-added products: Pathway towards integrated bio-refinery. *Fuel*, **2019**, 254, 115640	7.1	61
203	Nanoparticle induced biological disintegration: A new phase separated pretreatment strategy on microalgal biomass for profitable biomethane recovery. *Bioresource Technology*, **2019**, 289, 121624	11	28
202	Synergetic pretreatment of algal biomass through H2O2 induced microwave in acidic condition for biohydrogen production. *Fuel*, **2019**, 253, 833-839	7.1	36
201	Trends and resource recovery in biological wastewater treatment system. *Bioresource Technology Reports*, **2019**, 7, 100235	4.1	36
200	Carbon dioxide capture and bioenergy production using biological system A review. *Renewable and Sustainable Energy Reviews*, **2019**, 110, 143-158	16.2	80
199	A review on the conversion of volatile fatty acids to polyhydroxyalkanoates using dark fermentative effluents from hydrogen production. *Bioresource Technology*, **2019**, 287, 121427	11	50
198	Biobutanol as a promising liquid fuel for the future - recent updates and perspectives. *Fuel*, **2019**, 253, 637-646	7.1	70
197	Valorization of Waste Date Seeds for Green Carbon Catalysts and Biodiesel Synthesis. *Sustainable Agriculture Reviews*, **2019**, 105-123	1.3	1
196	A comprehensive review on thermochemical, biological, biochemical and hybrid conversion methods of bio-derived lignocellulosic molecules into renewable fuels. *Fuel*, **2019**, 251, 352-367	7.1	63
195	Application of nanotechnology in dark fermentation for enhanced biohydrogen production using inorganic nanoparticles. *International Journal of Hydrogen Energy*, **2019**, 44, 13106-13113	6.7	90

194	Leachate valorization in anaerobic biosystems: Towards the realization of waste-to-energy concept via biohydrogen, biogas and bioelectrochemical processes. *International Journal of Hydrogen Energy* , **2019**, 44, 17278-17296	6.7	11
193	Anaerobic membrane bioreactors for wastewater treatment: Novel configurations, fouling control and energy considerations. *Bioresource Technology*, **2019**, 283, 358-372	11	121
192	Comparative assessment of hexanol and decanol as oxygenated additives with calophyllum inophyllum biodiesel. *Energy*, **2019**, 173, 494-510	7.9	66
191	Effects of n-octanol as a fuel blend with biodiesel on diesel engine characteristics. *Fuel*, **2019**, 235, 363-373	7.1	94
190	Energetically efficient microwave disintegration of waste activated sludge for biofuel production by zeolite: Quantification of energy and biodegradability modelling. *International Journal of Hydrogen Energy*, **2019**, 44, 2274-2288	6.7	35
189	Biohydrogen production from rice straw: Effect of combinative pretreatment, modelling assessment and energy balance consideration. *International Journal of Hydrogen Energy*, **2019**, 44, 2203-2215	6.7	57
188	Fuel stability of biodiesel from waste cooking oil: A comparative evaluation with various antioxidants using FT-IR and DSC techniques. *Biocatalysis and Agricultural Biotechnology*, **2019**, 21, 101283	4.2	16
187	A review on biopolymer production via lignin valorization. *Bioresource Technology*, **2019**, 290, 121790	11	107
186	Biohydrogen production from industrial wastewater: An overview. *Bioresource Technology Reports*, **2019**, 7, 100287	4.1	52
185	Biopolymer production in bio electrochemical system: Literature survey. *Bioresource Technology Reports*, **2019**, 7, 100283	4.1	11
184	Bioenergy production and metallic iron (Fe) conversion from Botryococcus sp. cultivated in domestic wastewater: Algal biorefinery concept. *Energy Conversion and Management*, **2019**, 196, 1326-1334	10.6	11
183	Integrated valorization of Moringa oleifera and waste Phoenix dactylifera L. dates as potential feedstocks for biofuels production from Algerian Sahara: An experimental perspective. *Biocatalysis and Agricultural Biotechnology*, **2019**, 20, 101234	4.2	17
182	Impact of addition of two ether additives with high speed diesel- Calophyllum Inophyllum biodiesel blends on NOx reduction in CI engine. *Energy*, **2019**, 185, 39-54	7.9	21
181	Polyhydroxy butyrate production by Acinetobacter junii BP25, Aeromonas hydrophila ATCC 7966, and their co-culture using a feast and famine strategy. *Bioresource Technology*, **2019**, 293, 122062	11	16
180	INFLUENCE OF VARIOUS COMBINATIONS OF HEAT PRETREATMENT ON HYDROGEN FERMENTATION FROM DEOILED JATROPHA WASTE USING MIXED MICROFLORA. *Environmental Engineering and Management Journal*, **2019**, 18, 1-7	0.6	3
179	Pretreatment of kenaf (Hibiscus cannabinus L.) biomass feedstock for polyhydroxybutyrate (PHB) production and characterization. *Bioresource Technology*, **2019**, 282, 75-80	11	54
178	A perspective on galactose-based fermentative hydrogen production from macroalgal biomass: Trends and opportunities. *Bioresource Technology*, **2019**, 280, 447-458	11	27
177	Integrated valorization of waste cooking oil and spent coffee grounds for biodiesel production: Blending with higher alcohols, FTIR, TGA, DSC and NMR characterizations. *Fuel*, **2019**, 244, 419-430	7.1	63

176	Influence of Mild-Ozone Assisted Disperser Pretreatment on the Enhanced Biogas Generation and Biodegradability of Green Marine Macroalgae. *Frontiers in Energy Research*, **2019**, 7,	3.8	6
175	Effect of Dispersion Treatment on Dairy Waste Activated Sludge to Hasten the Production of Biogas. *Frontiers in Energy Research*, **2019**, 7,	3.8	2
174	A review on lignin structure, pretreatments, fermentation reactions and biorefinery potential. *Bioresource Technology*, **2019**, 271, 462-472	11	239
173	Study on isobutanol and Calophyllum inophyllum biodiesel as a partial replacement in CI engine applications. *Fuel*, **2019**, 235, 984-994	7.1	59
172	Application of nanotechnology (nanoparticles) in dark fermentative hydrogen production. *International Journal of Hydrogen Energy*, **2019**, 44, 1431-1440	6.7	69
171	Engine performance, emission and bio characteristics of rice bran oil derived biodiesel blends. *Fuel*, **2019**, 239, 153-161	7.1	33
170	Recent Developments in Biological Nutrient Removal. *Energy, Environment, and Sustainability*, **2019**, 211-286		4
169	An investigation on CRDi engine characteristic using renewable orange-peel oil. *Energy Conversion and Management*, **2019**, 180, 1026-1038	10.6	33
168	Dispersion aided tenside disintegration of seagrass Syringodium isoetifolium: Towards biomethanation, kinetics, energy exploration and evaluation. *Bioresource Technology*, **2019**, 277, 62-67	11	7
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