

Sang-Hyoun Kim

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222
papers

8,025
citations

48
h-index

79
g-index

238
ext. papers

9,858
ext. citations

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avg, IF

6.78
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 222 | Feasibility of biohydrogen production by anaerobic co-digestion of food waste and sewage sludge. <i>International Journal of Hydrogen Energy</i> , 2004 , 29, 1607-1616 | 6.7 | 342 |
| 221 | Hydrogen production from food waste in anaerobic mesophilic and thermophilic acidogenesis. <i>International Journal of Hydrogen Energy</i> , 2004 , 29, 1355-1363 | 6.7 | 335 |
| 220 | Effect of gas sparging on continuous fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 2158-2169 | 6.7 | 252 |
| 219 | Effect of substrate concentration on hydrogen production and 16S rDNA-based analysis of the microbial community in a continuous fermenter. <i>Process Biochemistry</i> , 2006 , 41, 199-207 | 4.8 | 248 |
| 218 | Lignocellulose biohydrogen: Practical challenges and recent progress. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 44, 728-737 | 16.2 | 211 |
| 217 | Use of <i>Gelidium amansii</i> as a promising resource for bioethanol: a practical approach for continuous dilute-acid hydrolysis and fermentation. <i>Bioresource Technology</i> , 2012 , 108, 83-8 | 11 | 179 |
| 216 | A review of thermochemical conversion of microalgal biomass for biofuels: chemistry and processes. <i>Green Chemistry</i> , 2017 , 19, 44-67 | 10 | 170 |
| 215 | Current status and strategies for second generation biofuel production using microbial systems. <i>Energy Conversion and Management</i> , 2017 , 148, 1142-1156 | 10.6 | 157 |
| 214 | A critical review on issues and overcoming strategies for the enhancement of dark fermentative hydrogen production in continuous systems. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3820-3836 | 6.7 | 147 |
| 213 | Bioreactor design for continuous dark fermentative hydrogen production. <i>Bioresource Technology</i> , 2011 , 102, 8612-20 | 11 | 143 |
| 212 | Fermentative hydrogen production using lignocellulose biomass: An overview of pre-treatment methods, inhibitor effects and detoxification experiences. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 77, 28-42 | 16.2 | 135 |
| 211 | Hydrogen fermentation of food waste without inoculum addition. <i>Enzyme and Microbial Technology</i> , 2009 , 45, 181-187 | 3.8 | 135 |
| 210 | Microbial strategies for bio-transforming food waste into resources. <i>Bioresource Technology</i> , 2020 , 299, 122580 | 11 | 130 |
| 209 | Feasibility of biohydrogen production from <i>Gelidium amansii</i> . <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13997-14003 | 6.7 | 129 |
| 208 | Continuous biohydrogen production in a CSTR using starch as a substrate. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 3289-3294 | 6.7 | 118 |
| 207 | Conversion of waste cooking oil into biodiesel using heterogenous catalyst derived from cork biochar. <i>Bioresource Technology</i> , 2020 , 302, 122872 | 11 | 108 |
| 206 | A comprehensive overview on electro-active biofilms, role of exo-electrogens and their microbial niches in microbial fuel cells (MFCs). <i>Chemosphere</i> , 2017 , 178, 534-547 | 8.4 | 107 |

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| 205 | A review on biopolymer production via lignin valorization. <i>Bioresource Technology</i> , 2019 , 290, 121790 | 11 | 107 |
| 204 | Effects of base-pretreatment on continuous enriched culture for hydrogen production from food waste. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 5266-5274 | 6.7 | 105 |
| 203 | Effect of initial pH independent of operational pH on hydrogen fermentation of food waste. <i>Bioresource Technology</i> , 2011 , 102, 8646-52 | 11 | 94 |
| 202 | Enhancement of biofuel production via microbial augmentation: The case of dark fermentative hydrogen. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 57, 879-891 | 16.2 | 92 |
| 201 | Sewage sludge addition to food waste synergistically enhances hydrogen fermentation performance. <i>Bioresource Technology</i> , 2011 , 102, 8501-6 | 11 | 92 |
| 200 | A review on bio-electrochemical systems (BESs) for the syngas and value added biochemicals production. <i>Chemosphere</i> , 2017 , 177, 84-92 | 8.4 | 87 |
| 199 | UASB treatment of wastewater with VFA and alcohol generated during hydrogen fermentation of food waste. <i>Process Biochemistry</i> , 2005 , 40, 2897-2905 | 4.8 | 86 |
| 198 | Experience of a pilot-scale hydrogen-producing anaerobic sequencing batch reactor (ASBR) treating food waste. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 1590-1594 | 6.7 | 83 |
| 197 | Optimization of continuous hydrogen fermentation of food waste as a function of solids retention time independent of hydraulic retention time. <i>Process Biochemistry</i> , 2008 , 43, 213-218 | 4.8 | 81 |
| 196 | Effect of severity on dilute acid pretreatment of lignocellulosic biomass and the following hydrogen fermentation. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21678-21684 | 6.7 | 78 |
| 195 | Sodium inhibition of fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 3295-3304 | 6.7 | 74 |
| 194 | Biobutanol as a promising liquid fuel for the future - recent updates and perspectives. <i>Fuel</i> , 2019 , 253, 637-646 | 7.1 | 70 |
| 193 | Evidence of syntrophic acetate oxidation by Spirochaetes during anaerobic methane production. <i>Bioresource Technology</i> , 2015 , 190, 543-9 | 11 | 67 |
| 192 | Microbial electrochemical systems for sustainable biohydrogen production: Surveying the experiences from a start-up viewpoint. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 70, 589-597 | 16.2 | 64 |
| 191 | A comprehensive review on thermochemical, biological, biochemical and hybrid conversion methods of bio-derived lignocellulosic molecules into renewable fuels. <i>Fuel</i> , 2019 , 251, 352-367 | 7.1 | 63 |
| 190 | Research perspectives on constraints, prospects and opportunities in biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27471-27481 | 6.7 | 61 |
| 189 | Evaluation of different pretreatments on organic matter solubilization and hydrogen fermentation of mixed microalgae consortia. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21628-21640 | 6.7 | 61 |
| 188 | Optimization of batch dilute-acid hydrolysis for biohydrogen production from red algal biomass. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 6130-6136 | 6.7 | 60 |

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| 187 | Waste based hydrogen production for circular bioeconomy: Current status and future directions. <i>Bioresource Technology</i> , 2020 , 302, 122920 | 11 | 59 |
| 186 | Production of (3-hydroxybutyrate-co-3-hydroxyhexanoate) copolymer from coffee waste oil using engineered <i>Ralstonia eutropha</i> . <i>Bioprocess and Biosystems Engineering</i> , 2018 , 41, 229-235 | 3.7 | 59 |
| 185 | Hydrogen fermentation of different galactose-glucose compositions during various hydraulic retention times (HRTs). <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 20625-20631 | 6.7 | 57 |
| 184 | Effect of HRT on ASBR converting starch into biological hydrogen. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6509-6514 | 6.7 | 57 |
| 183 | Enhanced biohydrogen production from beverage industrial wastewater using external nitrogen sources and bioaugmentation with facultative anaerobic strains. <i>Journal of Bioscience and Bioengineering</i> , 2015 , 120, 155-60 | 3.3 | 55 |
| 182 | Anaerobic digestibility of algal bioethanol residue. <i>Bioresource Technology</i> , 2012 , 113, 78-82 | 11 | 53 |
| 181 | HRT dependent performance and bacterial community population of granular hydrogen-producing mixed cultures fed with galactose. <i>Bioresource Technology</i> , 2016 , 206, 188-194 | 11 | 52 |
| 180 | Two-phase anaerobic treatment system for fat-containing wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2004 , 79, 63-71 | 3.5 | 52 |
| 179 | Start-up strategy for continuous fermentative hydrogen production: Early switchover from batch to continuous operation. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1532-1541 | 6.7 | 51 |
| 178 | A review on the conversion of volatile fatty acids to polyhydroxyalkanoates using dark fermentative effluents from hydrogen production. <i>Bioresource Technology</i> , 2019 , 287, 121427 | 11 | 50 |
| 177 | Production of Polysaccharides and Corresponding Sugars from Red Seaweed. <i>Advanced Materials Research</i> , 2010 , 93-94, 463-466 | 0.5 | 50 |
| 176 | Changes in performance and bacterial communities in response to various process disturbances in a high-rate biohydrogen reactor fed with galactose. <i>Bioresource Technology</i> , 2015 , 188, 109-16 | 11 | 48 |
| 175 | Effect of hydraulic retention time (HRT) on biohydrogen production from galactose in an up-flow anaerobic sludge blanket reactor. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21670-21677 | 6.7 | 48 |
| 174 | Predominance of cluster I <i>Clostridium</i> in hydrogen fermentation of galactose seeded with various heat-treated anaerobic sludges. <i>Bioresource Technology</i> , 2014 , 157, 98-106 | 11 | 47 |
| 173 | Pilot-scale two-stage process: a combination of acidogenic hydrogenesis and methanogenesis. <i>Water Science and Technology</i> , 2005 , 52, 131-138 | 2.2 | 47 |
| 172 | Effects of 5-hydroxymethylfurfural, levulinic acid and formic acid, pretreatment byproducts of biomass, on fermentative H ₂ production from glucose and galactose. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 16885-16890 | 6.7 | 44 |
| 171 | Kinetics of LCFA inhibition on acetoclastic methanogenesis, propionate degradation and beta-oxidation. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2004 , 39, 1025-37 | 2.3 | 44 |
| 170 | Impact of pH control and heat pre-treatment of seed inoculum in dark H ₂ fermentation: A feasibility report using mixed microalgae biomass as feedstock. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 4382-4392 | 6.7 | 42 |

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| 169 | Effect of feeding mode and dilution on the performance and microbial community population in anaerobic digestion of food waste. <i>Bioresource Technology</i> , 2018 , 248, 134-140 | 11 | 40 |
| 168 | Alkaline-mechanical pretreatment process for enhanced anaerobic digestion of thickened waste activated sludge with a novel crushing device: Performance evaluation and economic analysis. <i>Bioresource Technology</i> , 2014 , 165, 183-90 | 11 | 40 |
| 167 | Enhancement of carbon monoxide mass transfer using an innovative external hollow fiber membrane (HFM) diffuser for syngas fermentation: Experimental studies and model development. <i>Chemical Engineering Journal</i> , 2012 , 184, 268-277 | 14.7 | 39 |
| 166 | Optimization of substrate concentration of dilute acid hydrolyzate of lignocellulosic biomass in batch hydrogen production. <i>International Biodeterioration and Biodegradation</i> , 2016 , 113, 22-27 | 4.8 | 39 |
| 165 | Sludge characteristics in anaerobic SBR system producing hydrogen gas. <i>Water Research</i> , 2007 , 41, 1177-845 | 8.5 | 38 |
| 164 | Effect of ultrasonic treatment of digestion sludge on bio-hydrogen production from sucrose by anaerobic fermentation. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3450-3455 | 6.7 | 37 |
| 163 | Acidity Tunable Ionic Liquids as Catalysts for Conversion of Agar into Mixed Sugars. <i>Bulletin of the Korean Chemical Society</i> , 2010 , 31, 511-514 | 1.2 | 36 |
| 162 | State-of-the-art technologies for continuous high-rate biohydrogen production. <i>Bioresource Technology</i> , 2021 , 320, 124304 | 11 | 36 |
| 161 | Performance evaluation of microbial electrochemical systems operated with Nafion and supported ionic liquid membranes. <i>Chemosphere</i> , 2017 , 175, 350-355 | 8.4 | 35 |
| 160 | Fermentative hydrogen production from mixed and pure microalgae biomass: Key challenges and possible opportunities. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 26440-26453 | 6.7 | 35 |
| 159 | Mesophilic biogenic H ₂ production using galactose in a fixed bed reactor. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3658-3666 | 6.7 | 35 |
| 158 | Biohydrogen production integrated with an external dynamic membrane: A novel approach. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27543-27549 | 6.7 | 34 |
| 157 | Effects of various dilute acid pretreatments on the biochemical hydrogen production potential of marine macroalgal biomass. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27600-27606 | 6.7 | 34 |
| 156 | Bioconversion of barley straw lignin into biodiesel using <i>Rhodococcus</i> sp. YHY01. <i>Bioresource Technology</i> , 2019 , 289, 121704 | 11 | 34 |
| 155 | Simultaneous removal of 5-hydroxy methyl furfural (5-HMF) and hydrogen production from acid (H ₂ SO ₄) pretreated red-algal hydrolysate via hybrid immobilized cells. <i>Algal Research</i> , 2015 , 11, 326-333 ⁵ | | 34 |
| 154 | Surfactant assisted disperser pretreatment on the liquefaction of <i>Ulva reticulata</i> and evaluation of biodegradability for energy efficient biofuel production through nonlinear regression modelling. <i>Bioresource Technology</i> , 2018 , 255, 116-122 | 11 | 34 |
| 153 | Impact of pretreatment on food waste for biohydrogen production: A review. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18211-18225 | 6.7 | 34 |
| 152 | Feasibility of enriched mixed cultures obtained by repeated batch transfer in continuous hydrogen fermentation. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 4393-4403 | 6.7 | 33 |

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| 151 | Insights on biological hydrogen production routes and potential microorganisms for high hydrogen yield. <i>Fuel</i> , 2021 , 291, 120136 | 7.1 | 33 |
| 150 | Mesophilic continuous fermentative hydrogen production from acid pretreated de-oiled jatropa waste hydrolysate using immobilized microorganisms. <i>Bioresource Technology</i> , 2017 , 240, 137-143 | 11 | 32 |
| 149 | Combined pretreatment of electrolysis and ultra-sonication towards enhancing solubilization and methane production from mixed microalgae biomass. <i>Bioresource Technology</i> , 2017 , 245, 196-200 | 11 | 32 |
| 148 | Dark fermentative hydrogen production following the sequential dilute acid pretreatment and enzymatic saccharification of rice husk. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27577-27583 | 6.7 | 32 |
| 147 | Deoiled algal biomass derived renewable sugars for bioethanol and biopolymer production in biorefinery framework. <i>Bioresource Technology</i> , 2020 , 296, 122315 | 11 | 32 |
| 146 | Effect of substrate concentration on the competition between <i>Clostridium</i> and <i>Lactobacillus</i> during biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11460-11469 | 6.7 | 30 |
| 145 | Process performance of biohydrogen production using glucose at various HRTs and assessment of microbial dynamics variation via q-PCR. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27550-27557 | 6.7 | 30 |
| 144 | Screening and optimization of pretreatments in the preparation of sugarcane bagasse feedstock for biohydrogen production and process optimization. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11470-11483 | 6.7 | 29 |
| 143 | Conversion of organic solid waste to hydrogen and methane by two-stage fermentation system with reuse of methane fermenter effluent as diluting water in hydrogen fermentation. <i>Bioresource Technology</i> , 2013 , 139, 120-7 | 11 | 29 |
| 142 | Biocatalytic remediation of industrial pollutants for environmental sustainability: Research needs and opportunities.. <i>Chemosphere</i> , 2021 , 272, 129936 | 8.4 | 29 |
| 141 | Enhancement of hydrogen production by optimization of pH adjustment and separation conditions following dilute acid pretreatment of lignocellulosic biomass. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27502-27511 | 6.7 | 28 |
| 140 | Food waste treatment in an anaerobic dynamic membrane bioreactor (AnDMBR): Performance monitoring and microbial community analysis. <i>Bioresource Technology</i> , 2019 , 280, 158-164 | 11 | 28 |
| 139 | A perspective on galactose-based fermentative hydrogen production from macroalgal biomass: Trends and opportunities. <i>Bioresource Technology</i> , 2019 , 280, 447-458 | 11 | 27 |
| 138 | Research and development perspectives of lignocellulose-based biohydrogen production. <i>International Biodeterioration and Biodegradation</i> , 2017 , 119, 225-238 | 4.8 | 26 |
| 137 | Valorization of cashew nut processing residues for industrial applications. <i>Industrial Crops and Products</i> , 2020 , 152, 112550 | 5.9 | 26 |
| 136 | Photoautotrophic cultivation of mixed microalgae consortia using various organic waste streams towards remediation and resource recovery. <i>Bioresource Technology</i> , 2018 , 247, 576-581 | 11 | 26 |
| 135 | Failure of biohydrogen production by low levels of substrate and lactic acid accumulation. <i>Renewable Energy</i> , 2016 , 86, 889-894 | 8.1 | 26 |
| 134 | Enhancement of hydrogen production by recycling of methanogenic effluent in two-phase fermentation of food waste. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13777-13782 | 6.7 | 26 |

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| 133 | Anaerobic digestion of food waste to methane at various organic loading rates (OLRs) and hydraulic retention times (HRTs): Thermophilic vs. mesophilic regimes. <i>Environmental Engineering Research</i> , 2016 , 21, 69-73 | 3.6 | 25 |
| 132 | Sustainable and eco-friendly strategies for shrimp shell valorization. <i>Environmental Pollution</i> , 2020 , 267, 115656 | 9.3 | 25 |
| 131 | Electro-fermentation for biofuels and biochemicals production: Current status and future directions. <i>Bioresource Technology</i> , 2021 , 323, 124598 | 11 | 25 |
| 130 | Critical review on microbial community during in-situ bioremediation of heavy metals from industrial wastewater. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101826 | 7 | 25 |
| 129 | A review of the innovative gas separation membrane bioreactor with mechanisms for integrated production and purification of biohydrogen. <i>Bioresource Technology</i> , 2018 , 270, 643-655 | 11 | 24 |
| 128 | Formation of a dynamic membrane altered the microbial community and metabolic flux in fermentative hydrogen production. <i>Bioresource Technology</i> , 2019 , 282, 63-68 | 11 | 23 |
| 127 | Evaluation of a membrane permeation system for biogas upgrading using model and real gaseous mixtures: The effect of operating conditions on separation behaviour, methane recovery and process stability. <i>Journal of Cleaner Production</i> , 2018 , 185, 44-51 | 10.3 | 23 |
| 126 | Performance comparison of a continuous-flow stirred-tank reactor and an anaerobic sequencing batch reactor for fermentative hydrogen production depending on substrate concentration. <i>Water Science and Technology</i> , 2005 , 52, 23-29 | 2.2 | 23 |
| 125 | Modeling and Optimization of Biohydrogen Production from De-oiled Jatropha Using the Response Surface Method. <i>Arabian Journal for Science and Engineering</i> , 2015 , 40, 15-22 | | 22 |
| 124 | Lipid content, biomass density, fatty acid as selection markers for evaluating the suitability of four fast growing cyanobacterial strains for biodiesel production. <i>Bioresource Technology</i> , 2021 , 325, 124654 | 11 | 22 |
| 123 | Optimization of dilute acid and enzymatic hydrolysis for dark fermentative hydrogen production from the empty fruit bunch of oil palm. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 2191-2202 | 6.7 | 22 |
| 122 | Synthesis of Gvalerolactone (GVL) and their applications for lignocellulosic deconstruction for sustainable green biorefineries. <i>Fuel</i> , 2021 , 303, 121333 | 7.1 | 22 |
| 121 | Inhibitory effect of 5-hydroxymethylfurfural on continuous hydrogen fermentation by mixed culture in a fixed bed reactor. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27570-27576 | 6.7 | 21 |
| 120 | Microbial Electro-Remediation (MER) of hazardous waste in aid of sustainable energy generation and resource recovery. <i>Environmental Technology and Innovation</i> , 2020 , 19, 100997 | 7 | 20 |
| 119 | Kinetics and equilibria of 5-hydroxymethylfurfural (5-HMF) sequestration from algal hydrolyzate using granular activated carbon. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 1157-1163 | 3.5 | 20 |
| 118 | Bio-hydrogen and bio-methane potential analysis for production of bio-hythane using various agricultural residues. <i>Bioresource Technology</i> , 2020 , 309, 123297 | 11 | 20 |
| 117 | A review on evaluation of applied pretreatment methods of wastewater towards sustainable H ₂ generation: Energy efficiency analysis. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 8329-8345 | 6.7 | 19 |
| 116 | Continuous biogenic hydrogen production from dilute acid pretreated algal hydrolysate using hybrid immobilized mixed consortia. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11452-11459 | 6.7 | 19 |

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| 115 | Effect of 5-hydroxymethylfurfural (5-HMF) on high-rate continuous biohydrogen production from galactose. <i>Bioresource Technology</i> , 2018 , 247, 1197-1200 | 11 | 19 |
| 114 | Mesophilic co-digestion of palm oil mill effluent and empty fruit bunches. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 2163-70 | 2.6 | 19 |
| 113 | Effect of algae (<i>Scenedesmus obliquus</i>) biomass pre-treatment on bio-oil production in hydrothermal liquefaction (HTL): Biochar and aqueous phase utilization studies. <i>Science of the Total Environment</i> , 2021 , 778, 146262 | 10.2 | 19 |
| 112 | Effect of biochar on emission, maturity and bacterial dynamics during sheep manure composting. <i>Renewable Energy</i> , 2020 , 152, 421-429 | 8.1 | 18 |
| 111 | Enhancement Strategies for Hydrogen Production from Wastewater: A Review. <i>Current Organic Chemistry</i> , 2016 , 20, 2744-2752 | 1.7 | 18 |
| 110 | Production of biosurfactants from agro-industrial waste and waste cooking oil in a circular bioeconomy: An overview. <i>Bioresource Technology</i> , 2022 , 343, 126059 | 11 | 18 |
| 109 | Effects of vertical and horizontal configurations of different numbers of brush anodes on performance and electrochemistry of microbial fuel cells. <i>Journal of Cleaner Production</i> , 2020 , 277, 124125 | 10.3 | 18 |
| 108 | A critical review on different harvesting techniques for algal based biodiesel production. <i>Science of the Total Environment</i> , 2021 , 780, 146467 | 10.2 | 18 |
| 107 | Feasibility of anaerobic digestion from bioethanol fermentation residue. <i>Bioresource Technology</i> , 2013 , 141, 177-83 | 11 | 17 |
| 106 | Evaluation of gradual adaptation of mixed microalgae consortia cultivation using textile wastewater via fed batch operation. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2018 , 20, e00289 | 5.3 | 17 |
| 105 | Assessment via the modified gompertz-model reveals new insights concerning the effects of ionic liquids on biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 18918-18924 | 6.7 | 17 |
| 104 | Improvement of hydrogen fermentation of galactose by combined inoculation strategy. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 123, 353-357 | 3.3 | 16 |
| 103 | Recovering hydrogen production performance of upflow anaerobic sludge blanket reactor (UASBR) fed with galactose via repeated heat treatment strategy. <i>Bioresource Technology</i> , 2017 , 240, 207-213 | 11 | 16 |
| 102 | Metabolic flux and functional potential of microbial community in an acidogenic dynamic membrane bioreactor. <i>Bioresource Technology</i> , 2020 , 305, 123060 | 11 | 16 |
| 101 | Co-digestion of untreated macro and microalgal biomass for biohydrogen production: Impact of inoculum augmentation and microbial insights. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11484-11492 | 6.7 | 16 |
| 100 | Polyhydroxy butyrate production by <i>Acinetobacter junii</i> BP25, <i>Aeromonas hydrophila</i> ATCC 7966, and their co-culture using a feast and famine strategy. <i>Bioresource Technology</i> , 2019 , 293, 122062 | 11 | 16 |
| 99 | Enhanced H ₂ fermentation of organic waste by CO ₂ sparging. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15563-15568 | 6.7 | 16 |
| 98 | Novel anaerobic process for the recovery of methane and compost from food waste. <i>Water Science and Technology</i> , 2002 , 45, 313-319 | 2.2 | 16 |

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| 97 | Improved Hydrogen Production from Galactose Via Immobilized Mixed Consortia. <i>Arabian Journal for Science and Engineering</i> , 2015 , 40, 2117-2122 | | 15 |
| 96 | Removal of 17- β -estradiol in water by sonolysis. <i>International Biodeterioration and Biodegradation</i> , 2015 , 102, 11-14 | 4.8 | 15 |
| 95 | Kinetic modeling and microbial community analysis for high-rate biohydrogen production using a dynamic membrane. <i>Bioresource Technology</i> , 2018 , 262, 59-64 | 11 | 15 |
| 94 | Simultaneous utilization of galactose and glucose by <i>Saccharomyces cerevisiae</i> mutant strain for ethanol production. <i>Renewable Energy</i> , 2014 , 65, 213-218 | 8.1 | 15 |
| 93 | Selective sequestration of carboxylic acids from biomass fermentation by surface-functionalized mesoporous silica nanoparticles. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12103 | | 15 |
| 92 | Enhanced lipid degradation in an upflow anaerobic sludge blanket reactor by integration with an acidogenic reactor. <i>Water Environment Research</i> , 2010 , 82, 267-72 | 2.8 | 15 |
| 91 | Recent advances in commercial biorefineries for lignocellulosic ethanol production: Current status, challenges and future perspectives. <i>Bioresource Technology</i> , 2022 , 344, 126292 | 11 | 15 |
| 90 | Utilization of different lignocellulosic hydrolysates as carbon source for electricity generation using novel <i>Shewanella marisflavi</i> BBL25. <i>Journal of Cleaner Production</i> , 2020 , 277, 124084 | 10.3 | 15 |
| 89 | A detailed scrutinize on panorama of catalysts in biodiesel synthesis. <i>Science of the Total Environment</i> , 2021 , 777, 145683 | 10.2 | 15 |
| 88 | Hazardous minerals mining: Challenges and solutions. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123474 | 12.8 | 15 |
| 87 | Insights into the effect of cerium oxide nanoparticle on microalgal degradation of sulfonamides. <i>Bioresource Technology</i> , 2020 , 309, 123452 | 11 | 14 |
| 86 | Removal of BTX using granular octyl-functionalized mesoporous silica nanoparticle. <i>International Biodeterioration and Biodegradation</i> , 2014 , 95, 219-224 | 4.8 | 14 |
| 85 | Microbial responses to various process disturbances in a continuous hydrogen reactor fed with galactose. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 123, 216-222 | 3.3 | 14 |
| 84 | Effect of shear velocity and feed concentration on the treatment of food waste in an anaerobic dynamic membrane Bioreactor: Performance Monitoring and microbial community analysis. <i>Bioresource Technology</i> , 2020 , 296, 122301 | 11 | 14 |
| 83 | Possibilities for the biologically-assisted utilization of CO ₂ -rich gaseous waste streams generated during membrane technological separation of biohydrogen. <i>Journal of CO₂ Utilization</i> , 2020 , 36, 231-243 | 7.6 | 14 |
| 82 | Efficiency of transporter genes and proteins in hyperaccumulator plants for metals tolerance in wastewater treatment: Sustainable technique for metal detoxification. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101725 | 7 | 14 |
| 81 | Waste activated sludge treatment in an anaerobic dynamic membrane bioreactor at varying hydraulic retention time: Performance monitoring and microbial community analysis. <i>International Journal of Energy Research</i> , 2020 , 44, 12485-12495 | 4.5 | 13 |
| 80 | Characteristics of hydrogen production from food waste and waste activated sludge. <i>Journal of Water and Environment Technology</i> , 2003 , 1, 177-187 | 1.1 | 13 |

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| 79 | Enhancing anaerobic digestion for rural wastewater treatment with granular activated carbon (GAC) supplementation. <i>Bioresource Technology</i> , 2020 , 315, 123890 | 11 | 13 |
| 78 | Metal and metal(oids) removal efficiency using genetically engineered microbes: Applications and challenges. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125855 | 12.8 | 13 |
| 77 | Biological nutrient and organic removal from meat packing wastewater with a unique sequence of suspended growth and fixed-film reactors. <i>Water Science and Technology</i> , 2009 , 60, 3189-97 | 2.2 | 12 |
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