

# Sang-Hyoun Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

235  
papers

11,800  
citations

24978

57  
h-index

40881

93  
g-index

238  
all docs

238  
docs citations

238  
times ranked

7698  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.8	388
2	Hydrogen production from food waste in anaerobic mesophilic and thermophilic acidogenesis. <i>International Journal of Hydrogen Energy</i> , 2004, 29, 1355-1363.	3.8	386
3	Effect of gas sparging on continuous fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 2158-2169.	3.8	285
4	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.	1.8	280
5	Microbial strategies for bio-transforming food waste into resources. <i>Bioresource Technology</i> , 2020, 299, 122580.	4.8	248
6	Lignocellulose biohydrogen: Practical challenges and recent progress. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 44, 728-737.	8.2	244
7	A review of thermochemical conversion of microalgal biomass for biofuels: chemistry and processes. <i>Green Chemistry</i> , 2017, 19, 44-67.	4.6	216
8	Current status and strategies for second generation biofuel production using microbial systems. <i>Energy Conversion and Management</i> , 2017, 148, 1142-1156.	4.4	213
9	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, 83-88.	4.8	204
10	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.	3.8	194
11	Conversion of waste cooking oil into biodiesel using heterogenous catalyst derived from cork biochar. <i>Bioresource Technology</i> , 2020, 302, 122872.	4.8	186
12	A review on biopolymer production via lignin valorization. <i>Bioresource Technology</i> , 2019, 290, 121790.	4.8	180
13	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.	8.2	176
14	Bioreactor design for continuous dark fermentative hydrogen production. <i>Bioresource Technology</i> , 2011, 102, 8612-8620.	4.8	172
15	Hydrogen fermentation of food waste without inoculum addition. <i>Enzyme and Microbial Technology</i> , 2009, 45, 181-187.	1.6	158
16	Feasibility of biohydrogen production from <i>Gelidium amansii</i> . <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13997-14003.	3.8	154
17	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.	4.2	146
18	Continuous biohydrogen production in a CSTR using starch as a substrate. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3289-3294.	3.8	136

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19	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.	3.8	125
20	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.	3.4	111
21	Biobutanol as a promising liquid fuel for the future - recent updates and perspectives. <i>Fuel</i> , 2019, 253, 637-646.	3.4	110
22	Effect of initial pH independent of operational pH on hydrogen fermentation of food waste. <i>Bioresource Technology</i> , 2011, 102, 8646-8652.	4.8	109
23	Enhancement of biofuel production via microbial augmentation: The case of dark fermentative hydrogen. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 879-891.	8.2	108
24	A review on bio-electrochemical systems (BESs) for the syngas and value added biochemicals production. <i>Chemosphere</i> , 2017, 177, 84-92.	4.2	108
25	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.	3.8	105
26	Insights on biological hydrogen production routes and potential microorganisms for high hydrogen yield. <i>Fuel</i> , 2021, 291, 120136.	3.4	105
27	Sewage sludge addition to food waste synergistically enhances hydrogen fermentation performance. <i>Bioresource Technology</i> , 2011, 102, 8501-8506.	4.8	101
28	UASB treatment of wastewater with VFA and alcohol generated during hydrogen fermentation of food waste. <i>Process Biochemistry</i> , 2005, 40, 2897-2905.	1.8	98
29	Waste based hydrogen production for circular bioeconomy: Current status and future directions. <i>Bioresource Technology</i> , 2020, 302, 122920.	4.8	98
30	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.	3.8	95
31	Recent advances in commercial biorefineries for lignocellulosic ethanol production: Current status, challenges and future perspectives. <i>Bioresource Technology</i> , 2022, 344, 126292.	4.8	92
32	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.	1.7	90
33	Lignocellulosic biomass as renewable feedstock for biodegradable and recyclable plastics production: A sustainable approach. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112130.	8.2	90
34	Evidence of syntrophic acetate oxidation by Spirochaetes during anaerobic methane production. <i>Bioresource Technology</i> , 2015, 190, 543-549.	4.8	89
35	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.	1.8	85
36	Research perspectives on constraints, prospects and opportunities in biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27471-27481.	3.8	85

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37	Recycling of cathode material from spent lithium-ion batteries: Challenges and future perspectives. <i>Journal of Hazardous Materials</i> , 2022, 429, 128312.	6.5	83
38	Sodium inhibition of fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 3295-3304.	3.8	82
39	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.	3.8	82
40	Production of biosurfactants from agro-industrial waste and waste cooking oil in a circular bioeconomy: An overview. <i>Bioresource Technology</i> , 2022, 343, 126059.	4.8	82
41	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.	8.2	79
42	Optimization of batch dilute-acid hydrolysis for biohydrogen production from red algal biomass. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6130-6136.	3.8	76
43	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.	4.8	74
44	State-of-the-art technologies for continuous high-rate biohydrogen production. <i>Bioresource Technology</i> , 2021, 320, 124304.	4.8	73
45	Sustainable and eco-friendly strategies for shrimp shell valorization. <i>Environmental Pollution</i> , 2020, 267, 115656.	3.7	70
46	Impact of pretreatment on food waste for biohydrogen production: A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18211-18225.	3.8	69
47	Two-phase anaerobic treatment system for fat-containing wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 63-71.	1.6	66
48	Anaerobic digestibility of algal bioethanol residue. <i>Bioresource Technology</i> , 2012, 113, 78-82.	4.8	66
49	HRT dependent performance and bacterial community population of granular hydrogen-producing mixed cultures fed with galactose. <i>Bioresource Technology</i> , 2016, 206, 188-194.	4.8	66
50	Hydrogen fermentation of different galactose-glucose compositions during various hydraulic retention times (HRTs). <i>International Journal of Hydrogen Energy</i> , 2014, 39, 20625-20631.	3.8	65
51	Valorization of cashew nut processing residues for industrial applications. <i>Industrial Crops and Products</i> , 2020, 152, 112550.	2.5	65
52	Critical review on microbial community during in-situ bioremediation of heavy metals from industrial wastewater. <i>Environmental Technology and Innovation</i> , 2021, 24, 101826.	3.0	65
53	Lignin valorisation via enzymes: A sustainable approach. <i>Fuel</i> , 2022, 311, 122608.	3.4	64
54	Effect of HRT on ASBR converting starch into biological hydrogen. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6509-6514.	3.8	63

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55	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, 155-160.	1.1	61
56	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.	4.8	60
57	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.	3.8	59
58	Production of Polysaccharides and Corresponding Sugars from Red Seaweed. <i>Advanced Materials Research</i> , 0, 93-94, 463-466.	0.3	58
59	Bioconversion of barley straw lignin into biodiesel using <i>Rhodococcus</i> sp. YHY01. <i>Bioresource Technology</i> , 2019, 289, 121704.	4.8	58
60	Kinetics of LCFA Inhibition on Acetoclastic Methanogenesis, Propionate Degradation and $\text{H}_2$ -Oxidation. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2004, 39, 1025-1037.	0.9	56
61	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.	4.8	56
62	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.	3.8	55
63	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, 109-116.	4.8	55
64	Biocatalytic remediation of industrial pollutants for environmental sustainability: Research needs and opportunities. <i>Chemosphere</i> , 2021, 272, 129936.	4.2	55
65	Deoiled algal biomass derived renewable sugars for bioethanol and biopolymer production in biorefinery framework. <i>Bioresource Technology</i> , 2020, 296, 122315.	4.8	53
66	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.	1.9	52
67	Synthesis of $\gamma$ -valerolactone (GVL) and their applications for lignocellulosic deconstruction for sustainable green biorefineries. <i>Fuel</i> , 2021, 303, 121333.	3.4	52
68	Effects of 5-hydroxymethylfurfural, levulinic acid and formic acid, pretreatment byproducts of biomass, on fermentative $\text{H}_2$ production from glucose and galactose. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16885-16890.	3.8	51
69	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.	4.8	51
70	Pilot-scale two-stage process: a combination of acidogenic hydrogenesis and methanogenesis. <i>Water Science and Technology</i> , 2005, 52, 131-138.	1.2	50
71	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.	3.8	50
72	Recent developments on alternative fuels, energy and environment for sustainability. <i>Bioresource Technology</i> , 2020, 317, 124010.	4.8	50

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73	Renewable hydrogen production from biomass and wastes (ReBioH2-2020). <i>Bioresource Technology</i> , 2021, 331, 125024.	4.8	50
74	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.	6.6	49
75	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, 183-190.	4.8	49
76	Impact of pH control and heat pre-treatment of seed inoculum in dark H <sub>2</sub> fermentation: A feasibility report using mixed microalgae biomass as feedstock. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4382-4392.	3.8	49
77	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.	3.8	49
78	A critical review on different harvesting techniques for algal based biodiesel production. <i>Science of the Total Environment</i> , 2021, 780, 146467.	3.9	48
79	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.	3.8	46
80	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.	3.8	45
81	Electro-fermentation for biofuels and biochemicals production: Current status and future directions. <i>Bioresource Technology</i> , 2021, 323, 124598.	4.8	45
82	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.	4.8	45
83	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.	3.8	44
84	Enhanced anaerobic digestion of waste-activated sludge via bioaugmentation strategy – Phylogenetic investigation of communities by reconstruction of unobserved states (PICRUSt2) analysis through hydrolytic enzymes and possible linkage to system performance. <i>Bioresource Technology</i> , 2021, 332, 125014.	4.8	44
85	Dark fermentation: Production and utilization of volatile fatty acid from different wastes- A review. <i>Chemosphere</i> , 2022, 288, 132444.	4.2	44
86	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.	4.8	43
87	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.	4.6	43
88	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.	3.9	43
89	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.	3.8	41
90	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.	3.8	41

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91	Effect of biochar on emission, maturity and bacterial dynamics during sheep manure composting. <i>Renewable Energy</i> , 2020, 152, 421-429.	4.3	41
92	Sludge characteristics in anaerobic SBR system producing hydrogen gas. <i>Water Research</i> , 2007, 41, 1177-1184.	5.3	40
93	Performance evaluation of microbial electrochemical systems operated with Nafion and supported ionic liquid membranes. <i>Chemosphere</i> , 2017, 175, 350-355.	4.2	40
94	Biohydrogen production integrated with an external dynamic membrane: A novel approach. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27543-27549.	3.8	40
95	Mesophilic continuous fermentative hydrogen production from acid pretreated de-oiled jatropha waste hydrolysate using immobilized microorganisms. <i>Bioresource Technology</i> , 2017, 240, 137-143.	4.8	40
96	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.	3.8	39
97	Upgrading the value of anaerobic fermentation via renewable chemicals production: A sustainable integration for circular bioeconomy. <i>Science of the Total Environment</i> , 2022, 806, 150312.	3.9	39
98	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.	1.0	38
99	Simultaneous removal of 5-hydroxy methyl furfural (5-HMF) and hydrogen production from acid (H <sub>2</sub> ) Tj ETQq1 1 0,784314 rgBT /Ove	2.4	37
100	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.	3.8	37
101	Mesophilic biogenic H <sub>2</sub> production using galactose in a fixed bed reactor. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3658-3666.	3.8	37
102	Dynamic membrane bioreactor for high rate continuous biohydrogen production from algal biomass. <i>Bioresource Technology</i> , 2021, 340, 125562.	4.8	37
103	Formation of a dynamic membrane altered the microbial community and metabolic flux in fermentative hydrogen production. <i>Bioresource Technology</i> , 2019, 282, 63-68.	4.8	36
104	A perspective on galactose-based fermentative hydrogen production from macroalgal biomass: Trends and opportunities. <i>Bioresource Technology</i> , 2019, 280, 447-458.	4.8	36
105	A review on evaluation of applied pretreatment methods of wastewater towards sustainable H <sub>2</sub> generation: Energy efficiency analysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8329-8345.	3.8	36
106	Research and development perspectives of lignocellulose-based biohydrogen production. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 225-238.	1.9	35
107	Food waste treatment in an anaerobic dynamic membrane bioreactor (AnDMBR): Performance monitoring and microbial community analysis. <i>Bioresource Technology</i> , 2019, 280, 158-164.	4.8	35
108	Enhancing anaerobic digestion for rural wastewater treatment with granular activated carbon (GAC) supplementation. <i>Bioresource Technology</i> , 2020, 315, 123890.	4.8	35



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109	Metal and metal(oids) removal efficiency using genetically engineered microbes: Applications and challenges. <i>Journal of Hazardous Materials</i> , 2021, 416, 125855.	6.5	35
110	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, 120-127.	4.8	34
111	Algae biorefinery: A promising approach to promote microalgae industry and waste utilization. <i>Journal of Biotechnology</i> , 2022, 345, 1-16.	1.9	34
112	Recent advances in computational fluid dynamics (CFD) modelling of photobioreactors: Design and applications. <i>Bioresource Technology</i> , 2022, 350, 126920.	4.8	34
113	Failure of biohydrogen production by low levels of substrate and lactic acid accumulation. <i>Renewable Energy</i> , 2016, 86, 889-894.	4.3	33
114	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.	4.8	33
115	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.	3.8	33
116	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.	3.0	33
117	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.	4.6	32
118	Photoautotrophic cultivation of mixed microalgae consortia using various organic waste streams towards remediation and resource recovery. <i>Bioresource Technology</i> , 2018, 247, 576-581.	4.8	32
119	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.	3.0	32
120	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.	4.6	31
121	Bio-hydrogen and bio-methane potential analysis for production of bio-hythane using various agricultural residues. <i>Bioresource Technology</i> , 2020, 309, 123297.	4.8	31
122	A detailed scrutinize on panorama of catalysts in biodiesel synthesis. <i>Science of the Total Environment</i> , 2021, 777, 145683.	3.9	31
123	Critical challenges and technological breakthroughs in food waste hydrolysis and detoxification for fuels and chemicals production. <i>Bioresource Technology</i> , 2022, 360, 127512.	4.8	31
124	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.	1.5	30
125	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.	4.8	29
126	Insights into the effect of cerium oxide nanoparticle on microalgal degradation of sulfonamides. <i>Bioresource Technology</i> , 2020, 309, 123452.	4.8	29



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127	Granular Mg-Fe layered double hydroxide prepared using dual polymers: Insights into synergistic removal of As(III) and As(V). <i>Journal of Hazardous Materials</i> , 2021, 403, 123883.	6.5	29
128	Comparative study of pyrolysis and hydrothermal liquefaction of microalgal species: Analysis of product yields with reaction temperature. <i>Fuel</i> , 2022, 311, 121932.	3.4	29
129	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.	1.2	28
130	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.	3.8	28
131	Mesophilic co-digestion of palm oil mill effluent and empty fruit bunches. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2163-2170.	1.2	28
132	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.	1.1	28
133	Metabolic flux and functional potential of microbial community in an acidogenic dynamic membrane bioreactor. <i>Bioresource Technology</i> , 2020, 305, 123060.	4.8	28
134	Recent trends in biochar integration with anaerobic fermentation: Win-win strategies in a closed-loop. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111371.	8.2	28
135	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.	2.2	27
136	Hazardous minerals mining: Challenges and solutions. <i>Journal of Hazardous Materials</i> , 2021, 402, 123474.	6.5	27
137	Downstream recovery of Li and value-added metals (Ni, Co, and Mn) from leach liquor of spent lithium-ion batteries using a membrane-integrated hybrid system. <i>Chemical Engineering Journal</i> , 2022, 447, 137507.	6.6	27
138	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.	2.1	26
139	Recent advances in black liquor valorization. <i>Bioresource Technology</i> , 2022, 350, 126916.	4.8	26
140	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.	1.6	25
141	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.	3.8	25
142	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.	3.8	25
143	Anaerobic co-digester microbiome during food waste valorization reveals <i>Methanosaeta</i> mediated methanogenesis with improved carbohydrate and lipid metabolism. <i>Bioresource Technology</i> , 2021, 332, 125123.	4.8	25
144	Degradation synergism between sonolysis and photocatalysis for organic pollutants with different hydrophobicity: A perspective of mechanism and application for high mineralization efficiency. <i>Journal of Hazardous Materials</i> , 2021, 416, 125787.	6.5	25

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145	Biofilm formation as a method of improved treatment during anaerobic digestion of organic matter for biogas recovery. <i>Bioresource Technology</i> , 2022, 344, 126309.	4.8	25
146	Sludge disintegration and anaerobic digestion enhancement by alkaline-thermal pretreatment: Economic evaluation and microbial population analysis. <i>Bioresource Technology</i> , 2022, 346, 126594.	4.8	25
147	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.	3.8	24
148	Effect of 5-hydroxymethylfurfural (5-HMF) on high-rate continuous biohydrogen production from galactose. <i>Bioresource Technology</i> , 2018, 247, 1197-1200.	4.8	24
149	Recent biotechnological trends in lactic acid bacterial fermentation for food processing industries. <i>Systems Microbiology and Biomanufacturing</i> , 2022, 2, 14-40.	1.5	24
150	Enhancement Strategies for Hydrogen Production from Wastewater: A Review. <i>Current Organic Chemistry</i> , 2016, 20, 2744-2752.	0.9	24
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