

Sang-Hyoun Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9017259/publications.pdf>

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	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
2	Unravelling the enhancement of biohydrogen production via adding magnetite nanoparticles and applying electrical energy input. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 40628-40636.	3.8	11
3	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
4	High-rate biohydrogen production from xylose using a dynamic membrane bioreactor. <i>Bioresource Technology</i> , 2022, 344, 126205.	4.8	12
5	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
6	Dark fermentation: Production and utilization of volatile fatty acid from different wastes- A review. <i>Chemosphere</i> , 2022, 288, 132444.	4.2	44
7	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
8	Lignin valorisation via enzymes: A sustainable approach. <i>Fuel</i> , 2022, 311, 122608.	3.4	64
9	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
10	Quantum dot synthesis from waste biomass and its applications in energy and bioremediation. <i>Chemosphere</i> , 2022, 293, 133564.	4.2	22
11	Regulation and augmentation of anaerobic digestion processes via the use of bioelectrochemical systems. <i>Bioresource Technology</i> , 2022, 346, 126628.	4.8	20
12	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
13	Algae biorefinery: A promising approach to promote microalgae industry and waste utilization. <i>Journal of Biotechnology</i> , 2022, 345, 1-16.	1.9	34
14	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
15	Evaluation of bio-hydrogen production using rice straw hydrolysate extracted by acid and alkali hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37385-37393.	3.8	10
16	Bioresource technology for bioenergy, bioproducts & environmental sustainability. <i>Bioresource Technology</i> , 2022, 347, 126736.	4.8	4
17	Recent biotechnological developments in reshaping the microalgal genome: A signal for green recovery in biorefinery practices. <i>Chemosphere</i> , 2022, 293, 133513.	4.2	14
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Biomass Based Bioenergy: Technologies and Impact on Environmental Sustainability. <i>Daehan Hwan'gyeong Gonghag Hoeji</i> , 2022, 44, 1-12.	0.4	3
21	Recent advances in computational fluid dynamics (CFD) modelling of photobioreactors: Design and applications. <i>Bioresource Technology</i> , 2022, 350, 126920.	4.8	34
22	Recent advances in black liquor valorization. <i>Bioresource Technology</i> , 2022, 350, 126916.	4.8	26
23	Biohydrogen and biomethane production from food waste using a two-stage dynamic membrane bioreactor (DMBR) system. <i>Bioresource Technology</i> , 2022, 352, 127094.	4.8	20
24	The effects of ammonia acclimation on biogas recovery and the microbial population in continuous anaerobic digestion of swine manure. <i>Environmental Research</i> , 2022, 212, 113483.	3.7	13
25	Valorization of pretreated waste activated sludge to organic acids and biopolymer. <i>Chemosphere</i> , 2022, 303, 135078.	4.2	5
26	Biohydrogen production from glycerol by novel <i>Clostridium</i> sp. SH25 and its application to biohydrogen car operation. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 2156-2164.	1.2	7
27	Impact of thermal pretreatment on anaerobic digestion of dewatered sludge from municipal and industrial wastewaters and its economic feasibility. <i>Energy</i> , 2022, 254, 124345.	4.5	12
28	Profitable disperser coupled surfactant pretreatment of aquatic phytomass for energy efficient solubilization and biomethanation: a study on lignin inhibition and its possible solutions. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3195-3207.	2.5	7
29	Comparison of alkali and ionic liquid pretreatment methods on the biochemical methane potential of date palm waste biomass. <i>Bioresource Technology</i> , 2022, 360, 127505.	4.8	12
30	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
31	Acceleration of lactate-utilizing pathway for enhancing biohydrogen production by magnetite supplementation in <i>Clostridium butyricum</i> . <i>Bioresource Technology</i> , 2022, 359, 127448.	4.8	15
32	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
33	Shift of microbial community structure by substrate level in dynamic membrane bioreactor for biohydrogen production. <i>International Journal of Energy Research</i> , 2021, 45, 17408-17416.	2.2	12
34	Comparative effect of silver nanoparticles (AgNPs) derived from actinomycetes and henna on biohydrogen production by <i>Clostridium beijerinckii</i> (KTCC1737). <i>International Journal of Energy Research</i> , 2021, 45, 17269-17278.	2.2	12
35	Unravelling metabolism and microbial community of a phytobed co-planted with <i>Typha angustifolia</i> and <i>Ipomoea aquatica</i> for biodegradation of doxylamine from wastewater. <i>Journal of Hazardous Materials</i> , 2021, 401, 123404.	6.5	19
36	A facile acid induced water-based solvent by improving hydrophobicity for simultaneous remediating total petroleum hydrocarbon, heavy metals and benzo(a) pyrene contaminated soil: Laboratory- and pilot-scale studies. <i>Journal of Cleaner Production</i> , 2021, 278, 123425.	4.6	5

#	ARTICLE	IF	CITATIONS
37	Hazardous minerals mining: Challenges and solutions. <i>Journal of Hazardous Materials</i> , 2021, 402, 123474.	6.5	27
38	Feasibility study of polyetherimide membrane for enrichment of carbon dioxide from synthetic biohydrogen mixture and subsequent utilization scenario using microalgae. <i>International Journal of Energy Research</i> , 2021, 45, 8327-8334.	2.2	3
39	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
40	Improvement in H ₂ production from <i>Clostridium butyricum</i> by co-culture with <i>Sporolactobacillus vineae</i> . <i>Fuel</i> , 2021, 285, 119051.	3.4	21
41	Novel dynamic membrane, metabolic flux balance and PICRUSt analysis for high-rate biohydrogen production at various substrate concentrations. <i>Chemical Engineering Journal</i> , 2021, 420, 127685.	6.6	21
42	High-rate mesophilic hydrogen production from food waste using hybrid immobilized microbiome. <i>Bioresource Technology</i> , 2021, 320, 124279.	4.8	16
43	State-of-the-art technologies for continuous high-rate biohydrogen production. <i>Bioresource Technology</i> , 2021, 320, 124304.	4.8	73
44	Comparative Evaluation of CO ₂ Fixation of Microalgae Strains at Various CO ₂ Aeration Conditions. <i>Waste and Biomass Valorization</i> , 2021, 12, 2999-3007.	1.8	10
45	Biotechnological valorization of algal biomass: an overview. <i>Systems Microbiology and Biomanufacturing</i> , 2021, 1, 131-141.	1.5	12
46	Effect of conductive material for overcoming inhibitory conditions derived from red algae-based substrate on biohydrogen production. <i>Fuel</i> , 2021, 285, 119059.	3.4	20
47	Unexpected discovery of superoxide radical generation by oxygen vacancies containing biomass derived granular activated carbon. <i>Water Research</i> , 2021, 190, 116757.	5.3	17
48	Electro-fermentation for biofuels and biochemicals production: Current status and future directions. <i>Bioresource Technology</i> , 2021, 323, 124598.	4.8	45
49	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
50	Biopolymer production using volatile fatty acids as resource: Effect of feast-famine strategy and lignin reinforcement. <i>Bioresource Technology</i> , 2021, 326, 124736.	4.8	9
51	Insights on biological hydrogen production routes and potential microorganisms for high hydrogen yield. <i>Fuel</i> , 2021, 291, 120136.	3.4	105
52	A review on energy and cost effective phase separated pretreatment of biosolids. <i>Water Research</i> , 2021, 198, 117169.	5.3	16
53	Biocatalytic remediation of industrial pollutants for environmental sustainability: Research needs and opportunities. <i>Chemosphere</i> , 2021, 272, 129936.	4.2	55
54	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

#	ARTICLE	IF	CITATIONS
55	Anaerobic co-digester microbiome during food waste valorization reveals Methanosaeta mediated methanogenesis with improved carbohydrate and lipid metabolism. <i>Bioresource Technology</i> , 2021, 332, 125123.	4.8	25
56	A detailed scrutinize on panorama of catalysts in biodiesel synthesis. <i>Science of the Total Environment</i> , 2021, 777, 145683.	3.9	31
57	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
58	Renewable hydrogen production from biomass and wastes (ReBioH2-2020). <i>Bioresource Technology</i> , 2021, 331, 125024.	4.8	50
59	Bioelectrochemical system-mediated waste valorization. <i>Systems Microbiology and Biomanufacturing</i> , 2021, 1, 432-443.	1.5	16
60	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
61	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
62	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
63	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
64	Improved bio-hydrogen production by overexpression of glucose-6-phosphate dehydrogenase and FeFe hydrogenase in <i>Clostridium acetobutylicum</i> . <i>International Journal of Hydrogen Energy</i> , 2021, 46, 36687-36695.	3.8	16
65	Relative evaluation of acid, alkali, and hydrothermal pretreatment influence on biochemical methane potential of date biomass. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106031.	3.3	20
66	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
67	Synthesis of γ -valerolactone (GVL) and their applications for lignocellulosic deconstruction for sustainable green biorefineries. <i>Fuel</i> , 2021, 303, 121333.	3.4	52
68	Anaerobic digestion of waste activated sludge using dynamic membrane at varying substrate concentration reveals new insight towards methanogenic pathway and biofilm formation. <i>Chemical Engineering Journal</i> , 2021, 423, 130249.	6.6	21
69	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
70	Dynamic membrane bioreactor for high rate continuous biohydrogen production from algal biomass. <i>Bioresource Technology</i> , 2021, 340, 125562.	4.8	37
71	Direct upcycling of polyethylene terephthalate (PET) waste bottles into γ -Fe ₂ O ₃ incorporated MIL-53(Al) for the synthesis of Al ₂ O ₃ /Fe ₃ O ₄ -encapsulated magnetic carbon composite and efficient removal of non-steroidal anti-inflammatory drugs. <i>Separation and Purification Technology</i> , 2021, 279, 119719.	3.9	16
72	Effect of low-thermal pretreatment on the methanogenic performance and microbiome population of continuous high-solid anaerobic digester treating dewatered sludge. <i>Bioresource Technology</i> , 2021, 341, 125756.	4.8	5

#	ARTICLE	IF	CITATIONS
73	Effect of genus Clostridium abundance on mixed-culture fermentation converting food waste into biohydrogen. <i>Bioresource Technology</i> , 2021, 342, 125942.	4.8	13
74	Wastewater treatment systems and power generation. , 2021, , 321-348.		0
75	Enhancement of Sewage Sludge Digestion by Co-digestion with Food Waste and Swine Waste. <i>Waste and Biomass Valorization</i> , 2020, 11, 2421-2430.	1.8	16
76	Effects of alginate immobilization on dynamic membrane formation and H ₂ fermentation from galactose. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5874-5880.	3.8	15
77	Deoiled algal biomass derived renewable sugars for bioethanol and biopolymer production in biorefinery framework. <i>Bioresource Technology</i> , 2020, 296, 122315.	4.8	53
78	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
79	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.	4.8	22
80	Comparative evaluation of biochemical methane potential of various types of Ugandan agricultural biomass following soaking aqueous ammonia pretreatment. <i>Environmental Science and Pollution Research</i> , 2020, 27, 17631-17641.	2.7	14
81	Microbial strategies for bio-transforming food waste into resources. <i>Bioresource Technology</i> , 2020, 299, 122580.	4.8	248
82	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.	3.3	20
83	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
84	Evaluation of the biochemical methane potential of different sorts of Algerian date biomass. <i>Environmental Technology and Innovation</i> , 2020, 20, 101180.	3.0	17
85	Enhancing anaerobic digestion for rural wastewater treatment with granular activated carbon (GAC) supplementation. <i>Bioresource Technology</i> , 2020, 315, 123890.	4.8	35
86	Recent developments on alternative fuels, energy and environment for sustainability. <i>Bioresource Technology</i> , 2020, 317, 124010.	4.8	50
87	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
88	Sustainable and eco-friendly strategies for shrimp shell valorization. <i>Environmental Pollution</i> , 2020, 267, 115656.	3.7	70
89	Insights into the effect of cerium oxide nanoparticle on microalgal degradation of sulfonamides. <i>Bioresource Technology</i> , 2020, 309, 123452.	4.8	29
90	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

#	ARTICLE	IF	CITATIONS
91	Valorization of cashew nut processing residues for industrial applications. <i>Industrial Crops and Products</i> , 2020, 152, 112550.	2.5	65
92	Effect of shear velocity on dark fermentation for biohydrogen production using dynamic membrane. <i>Bioresource Technology</i> , 2020, 308, 123265.	4.8	15
93	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
94	Impact of 5-hydroxy methyl furfural on continuous hydrogen production from galactose and glucose feedstock with periodic recovery. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19045-19051.	3.8	3
95	Biohydrogen. , 2020, , 51-87.		1
96	Assessment of <i>Chlorella</i> sp. as a potential feedstock for biological methane production. <i>Bioresource Technology</i> , 2020, 305, 123075.	4.8	10
97	Metabolic flux and functional potential of microbial community in an acidogenic dynamic membrane bioreactor. <i>Bioresource Technology</i> , 2020, 305, 123060.	4.8	28
98	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.	3.8	36
99	Conversion of waste cooking oil into biodiesel using heterogenous catalyst derived from cork biochar. <i>Bioresource Technology</i> , 2020, 302, 122872.	4.8	186
100	Effect of biochar on emission, maturity and bacterial dynamics during sheep manure composting. <i>Renewable Energy</i> , 2020, 152, 421-429.	4.3	41
101	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
102	Waste based hydrogen production for circular bioeconomy: Current status and future directions. <i>Bioresource Technology</i> , 2020, 302, 122920.	4.8	98
103	Tailoring of microbes for the production of high value plant-derived compounds: From pathway engineering to fermentative production. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 140262.	1.1	11
104	Biohydrogen Production From Industrial Wastewater. , 2019, , 733-760.		5
105	A review on biopolymer production via lignin valorization. <i>Bioresource Technology</i> , 2019, 290, 121790.	4.8	180
106	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
107	Bio-Hythane production from organic fraction of municipal solid waste in single and two stage anaerobic digestion processes. <i>Bioresource Technology</i> , 2019, 294, 122220.	4.8	17
108	Optimization of soaking in aqueous ammonia pretreatment for anaerobic digestion of African maize bran. <i>Fuel</i> , 2019, 253, 552-560.	3.4	16

#	ARTICLE	IF	CITATIONS
109	Bioconversion of barley straw lignin into biodiesel using <i>Rhodococcus</i> sp. YHY01. <i>Bioresource Technology</i> , 2019, 289, 121704.	4.8	58
110	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
111	Biohydrogen production from glucose using submerged dynamic filtration module: Metabolic product distribution and flux-based analysis. <i>Bioresource Technology</i> , 2019, 287, 121445.	4.8	9
112	Biobutanol as a promising liquid fuel for the future - recent updates and perspectives. <i>Fuel</i> , 2019, 253, 637-646.	3.4	110
113	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
114	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
115	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
116	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
117	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
118	Editorial introduction to the special issue from ICAFE-2017: The 2nd international conference on alternative fuels & energy. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019, 21, e00304.	2.1	0
119	Evaluation of process performance on biohydrogen production in continuous fixed bed reactor (C-FBR) using acid algae hydrolysate (AAH) as feedstock. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2164-2169.	3.8	15
120	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
121	Preface: ICAFE-2017 Special Issue. <i>Bioresource Technology</i> , 2018, 260, 433.	4.8	0
122	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
123	Biohydrogen fermentation of galactose at various substrate concentrations in an immobilized system and its microbial correspondence. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 559-564.	1.1	11
124	Kinetic modeling and microbial community analysis for high-rate biohydrogen production using a dynamic membrane. <i>Bioresource Technology</i> , 2018, 262, 59-64.	4.8	19
125	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
126	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

#	ARTICLE	IF	CITATIONS
127	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.	3.8	21
128	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
129	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
130	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
131	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
132	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
133	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
134	Effects of acclimation and pH on ammonia inhibition for mesophilic methanogenic microflora. <i>Waste Management</i> , 2018, 80, 218-223.	3.7	16
135	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
136	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
137	Improvement of hydrogen fermentation of galactose by combined inoculation strategy. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 353-357.	1.1	17
138	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
139	Performance evaluation of microbial electrochemical systems operated with Nafion and supported ionic liquid membranes. <i>Chemosphere</i> , 2017, 175, 350-355.	4.2	40
140	Research perspectives on constraints, prospects and opportunities in biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27471-27481.	3.8	85
141	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
142	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
143	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
144	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

#	ARTICLE	IF	CITATIONS
145	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
146	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
147	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.	4.8	16
148	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
149	Research and development perspectives of lignocellulose-based biohydrogen production. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 225-238.	1.9	35
150	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
151	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
152	Mixed-culture H ₂ fermentation performance and the relation between microbial community composition and hydraulic retention times for a fixed bed reactor fed with galactose/glucose mixtures. <i>Journal of Bioscience and Bioengineering</i> , 2017, 124, 339-345.	1.1	5
153	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
154	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
155	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
156	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
157	A review of thermochemical conversion of microalgal biomass for biofuels: chemistry and processes. <i>Green Chemistry</i> , 2017, 19, 44-67.	4.6	216
158	Mesophilic biogenic H ₂ production using galactose in a fixed bed reactor. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3658-3666.	3.8	37
159	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.	1.1	17
160	Biomass Conversion of Plant Residues. , 2017, , 351-383.		3
161	Two-Stage Flow-Through Pretreatment of <i>Helianthus tuberosus</i> Residue for Enzymatic Production of Fermentable Sugar by Alkaline and Acidic Solutions. <i>BioResources</i> , 2017, 12, .	0.5	4
162	Feasibility of Odor Removal using Ultrasonic Droplet of Dilute Hydrochloric Acid Electrolyzed Water. <i>Journal of Korea Society of Waste Management</i> , 2017, 34, 813-818.	0.1	0

#	ARTICLE	IF	CITATIONS
163	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
164	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
165	Corrigendum to "Enhancement of biofuel production via microbial augmentation: The case of dark fermentative hydrogen" [Renew Sustain Energy Rev 57 (2016) 879-891]. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 66, 220.	8.2	0
166	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
167	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
168	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
169	High-rate hydrogen production from galactose in an upflow anaerobic sludge blanket reactor (UASBr). <i>RSC Advances</i> , 2016, 6, 59823-59833.	1.7	11
170	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
171	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
172	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
173	Effects of anti-foaming agents on biohydrogen production. <i>Bioresource Technology</i> , 2016, 213, 121-128.	4.8	11
174	Failure of biohydrogen production by low levels of substrate and lactic acid accumulation. <i>Renewable Energy</i> , 2016, 86, 889-894.	4.3	33
175	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.	3.8	49
176	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
177	Harnessing dark fermentative hydrogen from pretreated mixture of food waste and sewage sludge under sequencing batch mode. <i>Environmental Science and Pollution Research</i> , 2016, 23, 7155-7161.	2.7	7
178	Microbial behavior and characteristics of biomass during starvation and their influence on ultrafiltration of activated sludge. <i>Desalination and Water Treatment</i> , 2016, 57, 7487-7494.	1.0	1
179	Enhancement Strategies for Hydrogen Production from Wastewater: A Review. <i>Current Organic Chemistry</i> , 2016, 20, 2744-2752.	0.9	24
180	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

#	ARTICLE	IF	CITATIONS
181	Lignocellulose biohydrogen: Practical challenges and recent progress. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 44, 728-737.	8.2	244
182	Evidence of syntrophic acetate oxidation by Spirochaetes during anaerobic methane production. <i>Bioresource Technology</i> , 2015, 190, 543-549.	4.8	89
183	Improved Hydrogen Production from Galactose Via Immobilized Mixed Consortia. <i>Arabian Journal for Science and Engineering</i> , 2015, 40, 2117-2122.	1.1	17
184	Removal of 17- β estradiol in water by sonolysis. <i>International Biodeterioration and Biodegradation</i> , 2015, 102, 11-14.	1.9	17
185	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
186	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
187	Simultaneous removal of 5-hydroxy methyl furfural (5-HMF) and hydrogen production from acid (H ₂) Tj ETQq1 1 0,784314 rgBT /Ove	2.4	87
188	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
189	Simultaneous utilization of galactose and glucose by <i>Saccharomyces cerevisiae</i> mutant strain for ethanol production. <i>Renewable Energy</i> , 2014, 65, 213-218.	4.3	19
190	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
191	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.	3.8	51
192	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
193	Removal of BTX using granular octyl-functionalized mesoporous silica nanoparticle. <i>International Biodeterioration and Biodegradation</i> , 2014, 95, 219-224.	1.9	17
194	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
195	Surface-functionalized mesoporous silica nanoparticles as sorbents for BTEX. <i>Journal of Porous Materials</i> , 2013, 20, 1087-1093.	1.3	13
196	Feasibility of anaerobic digestion from bioethanol fermentation residue. <i>Bioresource Technology</i> , 2013, 141, 177-183.	4.8	18
197	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
198	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

#	ARTICLE	IF	CITATIONS
199	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
200	Enhanced H ₂ fermentation of organic waste by CO ₂ sparging. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15563-15568.	3.8	20
201	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
202	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
203	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
204	Anaerobic digestibility of algal bioethanol residue. <i>Bioresource Technology</i> , 2012, 113, 78-82.	4.8	66
205	Selective sequestration of carboxylic acids from biomass fermentation by surface-functionalized mesoporous silica nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 12103.	6.7	18
206	Feasibility of biohydrogen production from <i>Gelidium amansii</i> . <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13997-14003.	3.8	154
207	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
208	Bioreactor design for continuous dark fermentative hydrogen production. <i>Bioresource Technology</i> , 2011, 102, 8612-8620.	4.8	172
209	Sewage sludge addition to food waste synergistically enhances hydrogen fermentation performance. <i>Bioresource Technology</i> , 2011, 102, 8501-8506.	4.8	101
210	Enhanced Lipid Degradation in an Upflow Anaerobic Sludge Blanket Reactor by Integration with an Acidogenic Reactor. <i>Water Environment Research</i> , 2010, 82, 267-272.	1.3	17
211	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
212	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
213	Anaerobic lipid degradation through acidification and methanization. <i>Journal of Microbiology and Biotechnology</i> , 2010, 20, 179-186.	0.9	2
214	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
215	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, 3189-3197.	1.2	12
216	Sodium inhibition of fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 3295-3304.	3.8	82

#	ARTICLE	IF	CITATIONS
217	Hydrogen fermentation of food waste without inoculum addition. <i>Enzyme and Microbial Technology</i> , 2009, 45, 181-187.	1.6	158
218	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
219	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
220	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
221	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
222	Effect of HRT on ASBR converting starch into biological hydrogen. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6509-6514.	3.8	63
223	Sludge characteristics in anaerobic SBR system producing hydrogen gas. <i>Water Research</i> , 2007, 41, 1177-1184.	5.3	40
224	Effect of gas sparging on continuous fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 2158-2169.	3.8	285
225	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
226	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
227	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
228	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
229	Kinetics of LCFA Inhibition on Acetoclastic Methanogenesis, Propionate Degradation and 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
230	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
231	Two-phase anaerobic treatment system for fat-containing wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 63-71.	1.6	66
232	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
233	Characteristics of hydrogen production from food waste and waste activated sludge. <i>Journal of Water and Environment Technology</i> , 2003, 1, 177-187.	0.3	15
234	Novel anaerobic process for the recovery of methane and compost from food waste. <i>Water Science and Technology</i> , 2002, 45, 313-319.	1.2	18

#	ARTICLE	IF	CITATIONS
235	Production of Polysaccharides and Corresponding Sugars from Red Seaweed. Advanced Materials Research, 0, 93-94, 463-466.	0.3	58