Si-Kyung Cho

List of Publications by Year
in descending order

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42 papers	1,452 citations	304743 22 h-index	315739 38 g-index
42 all docs	42 docs citations	42 times ranked	2157 citing authors

#	Article	IF	Citations
1	A comprehensive overview and recent advances on polyhydroxyalkanoates (PHA) production using various organic waste streams. Bioresource Technology, 2021, 325, 124685.	9.6	138
2	Biohydrogen production from food waste: Current status, limitations, and future perspectives. Bioresource Technology, 2018, 248, 79-87.	9.6	134
3	Dry anaerobic digestion of food waste under mesophilic conditions: Performance and methanogenic community analysis. Bioresource Technology, 2013, 131, 210-217.	9.6	108
4	Wheat straw extracted lignin in silver nanoparticles synthesis: Expanding its prophecy towards antineoplastic potency and hydrogen peroxide sensing ability. International Journal of Biological Macromolecules, 2019, 128, 391-400.	7.5	84
5	Photocatalytic activity of CuO/Cu(OH)2 nanostructures in the degradation of Reactive Green 19A and textile effluent, phytotoxicity studies and their biogenic properties (antibacterial and anticancer). Journal of Environmental Management, 2018, 223, 1086-1097.	7.8	74
6	Increased solubilization of excess sludge does not always result in enhanced anaerobic digestion efficiency. Bioresource Technology, 2013, 143, 660-664.	9.6	73
7	Development of ultrasound aided chemical pretreatment methods to enrich saccharification of wheat waste biomass for polyhydroxybutyrate production and its characterization. Industrial Crops and Products, 2020, 150, 112425.	5.2	62
8	Alkaline-mechanical pretreatment process for enhanced anaerobic digestion of thickened waste activated sludge with a novel crushing device: Performance evaluation and economic analysis. Bioresource Technology, 2014, 165, 183-190.	9.6	49
9	Waste activated sludge hydrolysis during ultrasonication: Two-step disintegration. Bioresource Technology, 2012, 121, 480-483.	9.6	47
10	Optimization of dark fermentative H2 production from microalgal biomass by combined (acid+ultrasonic) pretreatment. Bioresource Technology, 2013, 141, 220-226.	9.6	46
11	Insights into evolutionary trends in molecular biology tools in microbial screening for biohydrogen production through dark fermentation. International Journal of Hydrogen Energy, 2018, 43, 19885-19901.	7.1	42
12	Biogranules applied in environmental engineering. International Journal of Hydrogen Energy, 2017, 42, 27801-27811.	7.1	38
13	Application of an electric field for pretreatment of a seeding source for dark fermentative hydrogen production. Bioresource Technology, 2013, 139, 393-396.	9.6	37
14	Utilization of Noxious Weed Water Hyacinth Biomass as a Potential Feedstock for Biopolymers Production: A Novel Approach. Polymers, 2020, 12, 1704.	4.5	37
15	Investigation of photocatalytic degradation of reactive textile dyes by Portulaca oleracea-functionalized silver nanocomposites and exploration of their antibacterial and antidiabetic potentials. Journal of Alloys and Compounds, 2020, 833, 155083.	5.5	37
16	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. Bioresource Technology, 2013, 139, 120-127.	9.6	34
17	Inhibitory effect of chloroform on fermentative hydrogen and methane production from lipid-extracted microalgae. International Journal of Hydrogen Energy, 2014, 39, 19256-19261.	7.1	31
18	Effect of storage time and temperature on hydrogen fermentation of food waste. International Journal of Hydrogen Energy, 2020, 45, 3769-3775.	7.1	31

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19	Improved hydrogen recovery in microbial electrolysis cells using intermittent energy input. International Journal of Hydrogen Energy, 2019, 44, 2253-2257.	7.1	30
20	Performance and Microbial Community Dynamics in Anaerobic Digestion of Waste Activated Sludge: Impact of Immigration. Energies, 2019, 12, 573.	3.1	28
21	Rapid formation of hydrogen-producing granules in an up-flow anaerobic sludge blanket reactor coupled with high-rate recirculation. International Journal of Hydrogen Energy, 2013, 38, 9097-9103.	7.1	25
22	Application of low-strength ultrasonication to the continuous anaerobic digestion processes: UASBr and dry digester. Bioresource Technology, 2013, 141, 167-173.	9.6	25
23	Mitigation of ammonia inhibition by internal dilution in highâ€rate anaerobic digestion of food waste leachate and evidences of microbial community response. Biotechnology and Bioengineering, 2016, 113, 1892-1901.	3.3	23
24	Synergistic effect of Cu loading on Fe sites of fly ash for enhanced catalytic reduction of nitrophenol. Science of the Total Environment, 2020, 705, 134544.	8.0	22
25	Application of an electric field for pretreatment of a feedstock (Laminaria japonica) for dark fermentative hydrogen production. Biomass and Bioenergy, 2015, 72, 184-188.	5.7	21
26	Sequential Production of Lignin, Fatty Acid Methyl Esters and Biogas from Spent Coffee Grounds via an Integrated Physicochemical and Biological Process. Energies, 2019, 12, 2360.	3.1	21
27	Low strength ultrasonication positively affects the methanogenic granules toward higher AD performance. Part I: Physico-chemical characteristics. Bioresource Technology, 2013, 136, 66-72.	9.6	20
28	Effects of low-strength ultrasonication on dark fermentative hydrogen production: Start-up performance and microbial community analysis. Applied Energy, 2018, 219, 34-41.	10.1	19
29	Enhanced activity of methanogenic granules by low-strength ultrasonication. Bioresource Technology, 2012, 120, 84-88.	9.6	18
30	Enhanced anaerobic digestion of livestock waste by ultrasonication: A tool for ammonia removal and solubilization. Korean Journal of Chemical Engineering, 2014, 31, 619-623.	2.7	16
31	Elucidating a synergistic effect of food waste addition on the enhanced anaerobic digestion of waste activated sludge. Korean Journal of Chemical Engineering, 2015, 32, 1542-1546.	2.7	16
32	Low-strength ultrasonication positively affects methanogenic granules toward higher AD performance: Implications from microbial community shift. Ultrasonics Sonochemistry, 2016, 32, 198-203.	8.2	12
33	Dispersion aided tenside disintegration of seagrass Syringodium isoetifolium: Towards biomethanation, kinetics, energy exploration and evaluation. Bioresource Technology, 2019, 277, 62-67.	9.6	12
34	Low-strength ultrasonication positively affects methanogenic granules toward higher AD performance: Hydrolytic enzyme excretions. Ultrasonics Sonochemistry, 2017, 36, 168-172.	8.2	11
35	Enhanced methane recovery by food waste leachate injection into a landfill in Korea. Waste Management, 2011, 31, 2126-2132.	7.4	9
36	An Overview of Recent Advancements in Microbial Polyhydroxyalkanoates (PHA) Production from Dark Fermentation Acidogenic Effluents: A Path to an Integrated Bio-Refinery. Polymers, 2021, 13, 4297.	4.5	9

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37	Size and morphological analyses of ultrasonicated hydrogen-producing granules using a simple method. International Journal of Hydrogen Energy, 2019, 44, 2246-2252.	7.1	6
38	Statistical optimization of mixture ratio and particle size for dry co-digestion of food waste and manure by response surface methodology. Korean Journal of Chemical Engineering, 2013, 30, 1493-1496.	2.7	3
39	Inoculum preparation of anaerobic mixed cultures by electric field for dark fermentative hydrogen production. International Journal of Energy Research, 2014, 38, 2052-2056.	4.5	2
40	Influence of Performance and Microbial Community by Internal pH Control on Anaerobic Digestion of Food Waste Leachate. Daehan Hwan'gyeong Gonghag Hoeji, 2013, 35, 571-578.	1.1	1
41	Performance Evaluation of a Novel Pilot-Scale Wet Electrostatic Precipitator in a Bio-Drying-Assisted Solid Recovered Fuel (SRF) Generation Plant: Particulate Matter (PM) Collection Efficiency. Sustainability, 2022, 14, 8702.	3.2	1
42	Bacterial community analysis in upflow multilayer anaerobic reactor treating highâ€solids organic wastes. Biotechnology Progress, 2017, 33, 1226-1234.	2.6	0