

Hyun-Woo Kim

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,113
citations

257450

24
h-index

233421

45
g-index

65
all docs

65
docs citations

65
times ranked

2672
citing authors

#	ARTICLE	IF	CITATIONS
1	The optimisation of food waste addition as a co-substrate in anaerobic digestion of sewage sludge. <i>Waste Management and Research</i> , 2003, 21, 515-526.	3.9	148
2	Effects of organic loading rates on the continuous electricity generation from fermented wastewater using a single-chamber microbial fuel cell. <i>Bioresource Technology</i> , 2010, 101, S33-S37.	9.6	142
3	Variation of power generation at different buffer types and conductivities in single chamber microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1155-1159.	10.1	128
4	Sewage sludge addition to food waste synergistically enhances hydrogen fermentation performance. <i>Bioresource Technology</i> , 2011, 102, 8501-8506.	9.6	101
5	Optimization of combined (acid+thermal) pretreatment for fermentative hydrogen production from <i>Laminaria japonica</i> using response surface methodology (RSM). <i>International Journal of Hydrogen Energy</i> , 2011, 36, 9626-9631.	7.1	99
6	A comparison study on the high-rate co-digestion of sewage sludge and food waste using a temperature-phased anaerobic sequencing batch reactor system. <i>Bioresource Technology</i> , 2011, 102, 7272-7279.	9.6	99
7	Ammonia inhibition of electricity generation in single-chambered microbial fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 6428-6433.	7.8	96
8	Bio-hythane production from microalgae biomass: Key challenges and potential opportunities for algal bio-refineries. <i>Bioresource Technology</i> , 2017, 241, 525-536.	9.6	91
9	Anaerobic co-digestion of sewage sludge and food waste using temperature-phased anaerobic digestion process. <i>Water Science and Technology</i> , 2004, 50, 107-114.	2.5	69
10	Effects of temperature shifts on growth rate and lipid characteristics of <i>Synechocystis</i> sp. PCC6803 in a bench-top photobioreactor. <i>Bioresource Technology</i> , 2011, 102, 11218-11225.	9.6	63
11	Photoautotrophic nutrient utilization and limitation during semi-continuous growth of <i>Synechocystis</i> sp. PCC6803. <i>Biotechnology and Bioengineering</i> , 2010, 106, 553-563.	3.3	61
12	Hydrolytic activities of extracellular enzymes in thermophilic and mesophilic anaerobic sequencing-batch reactors treating organic fractions of municipal solid wastes. <i>Bioresource Technology</i> , 2012, 110, 130-134.	9.6	61
13	Ammonia inhibition and microbial adaptation in continuous single-chamber microbial fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 6210-6213.	7.8	59
14	Advanced Control for Photoautotrophic Growth and CO ₂ -Utilization Efficiency Using a Membrane Carbonation Photobioreactor (MCPBR). <i>Environmental Science & Technology</i> , 2011, 45, 5032-5038.	10.0	57
15	Oxalate-based remediation of arsenic bound to amorphous Fe and Al hydrous oxides in soil. <i>Geoderma</i> , 2016, 270, 76-82.	5.1	53
16	Pilot-scale two-stage process: a combination of acidogenic hydrogenesis and methanogenesis. <i>Water Science and Technology</i> , 2005, 52, 131-138.	2.5	50
17	Degradation of sulfonamide antibiotics and their intermediates toxicity in an aeration-assisted non-thermal plasma while treating strong wastewater. <i>Chemosphere</i> , 2018, 209, 901-907.	8.2	48
18	Nutrient acquisition and limitation for the photoautotrophic growth of <i>Synechocystis</i> sp. PCC6803 as a renewable biomass source. <i>Biotechnology and Bioengineering</i> , 2011, 108, 277-285.	3.3	44

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19	Response Surface Optimization of Substrates for Thermophilic Anaerobic Codigestion of Sewage Sludge and Food Waste. <i>Journal of the Air and Waste Management Association</i> , 2007, 57, 309-318.	1.9	40
20	Enhancement of bioenergy production and effluent quality by integrating optimized acidification with submerged anaerobic membrane bioreactor. <i>Bioresource Technology</i> , 2010, 101, S7-S12.	9.6	40
21	Photoautotrophic cultivation of mixed microalgae consortia using various organic waste streams towards remediation and resource recovery. <i>Bioresource Technology</i> , 2018, 247, 576-581.	9.6	32
22	Simultaneous treatment of sewage sludge and food waste by the unified high-rate anaerobic digestion system. <i>Water Science and Technology</i> , 2006, 53, 29-35.	2.5	28
23	Semi-continuous operation and fouling characteristics of submerged membrane photobioreactor (SMPBR) for tertiary treatment of livestock wastewater. <i>Journal of Cleaner Production</i> , 2018, 180, 244-251.	9.3	28
24	Producing desulfurized biogas through removal of sulfate in the first stage of a two-stage anaerobic digestion. <i>Biotechnology and Bioengineering</i> , 2017, 114, 970-979.	3.3	25
25	Techno-economic assessment of conventional and direct-transesterification processes for microalgal biomass to biodiesel conversion. <i>Bioresource Technology</i> , 2019, 294, 122173.	9.6	25
26	Mitigation of ammonia inhibition by internal dilution in high-rate anaerobic digestion of food waste leachate and evidences of microbial community response. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1892-1901.	3.3	23
27	Effects of the hydraulic retention time on the fouling characteristics of an anaerobic membrane bioreactor for treating acidified wastewater. <i>Desalination and Water Treatment</i> , 2010, 18, 251-256.	1.0	22
28	Multi-component kinetics for the growth of the cyanobacterium <i>Synechocystis</i> sp. PCC6803. <i>Environmental Engineering Research</i> , 2015, 20, 347-355.	2.5	22
29	Prediction of bio-methane potential and two-stage anaerobic digestion of starfish. <i>Bioresource Technology</i> , 2013, 141, 184-190.	9.6	21
30	Cold Plasma Treatment for Efficient Control over Algal Bloom Products in Surface Water. <i>Water (Switzerland)</i> , 2019, 11, 1513.	2.7	20
31	Direct membrane-carbonation photobioreactor producing photoautotrophic biomass via carbon dioxide transfer and nutrient removal. <i>Bioresource Technology</i> , 2016, 204, 32-37.	9.6	18
32	Pathogen Deactivation of Glow Discharge Cold Plasma While Treating Organic and Inorganic Pollutants of Slaughterhouse Wastewater. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	2.4	18
33	Assessment of organic removal in series- and parallel-connected microbial fuel cell stacks. <i>Biotechnology and Bioprocess Engineering</i> , 2017, 22, 739-747.	2.6	17
34	Responses of <i>Synechocystis</i> sp. PCC 6803 to total dissolved solids in long-term continuous operation of a photobioreactor. <i>Bioresource Technology</i> , 2013, 128, 378-384.	9.6	16
35	Elucidating a synergistic effect of food waste addition on the enhanced anaerobic digestion of waste activated sludge. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1542-1546.	2.7	16
36	Parametric study on the impact-echo method using mock-up shafts. <i>NDT and E International</i> , 2002, 35, 595-608.	3.7	15

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37	Inhibition of residual n-hexane in anaerobic digestion of lipid-extracted microalgal wastes and microbial community shift. <i>Environmental Science and Pollution Research</i> , 2016, 23, 7138-7145.	5.3	15
38	External electric field promotes ammonia stripping from wastewater. <i>Water Research</i> , 2021, 203, 117518.	11.3	14
39	Photoautotrophic Microalgae Screening for Tertiary Treatment of Livestock Wastewater and Bioresource Recovery. <i>Water (Switzerland)</i> , 2017, 9, 192.	2.7	13
40	Decomposition of volatile fatty acids using electron beam irradiation. <i>Chemical Engineering Journal</i> , 2019, 360, 494-500.	12.7	13
41	Sulfonamide degradation and metabolite characterization in submerged membrane photobioreactors for livestock excreta treatment. <i>Chemosphere</i> , 2020, 261, 127604.	8.2	13
42	Effect of granular porous media on the composting of swine manure. <i>Waste Management</i> , 2008, 28, 2336-2343.	7.4	12
43	Enhanced Microalgal Growth and Effluent Quality in Tertiary Treatment of Livestock Wastewater Using a Sequencing Batch Reactor. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	2.4	12
44	Optimal Metal Dose of Alternative Cathode Catalyst Considering Organic Substances in Single Chamber Microbial Fuel Cells. <i>Environmental Engineering Research</i> , 2013, 18, 145-150.	2.5	12
45	Prediction of varying microcystins during non-thermal plasma oxidation of harvested microalgal biomass. <i>Journal of Hazardous Materials</i> , 2021, 403, 123596.	12.4	10
46	Iron-impregnated spent coffee ground biochar for enhanced degradation of methylene blue during cold plasma application. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 98, 383-388.	5.8	10
47	Energy-effective elimination of harmful microcystins by a non-thermal plasma process. <i>Chemosphere</i> , 2021, 284, 131338.	8.2	10
48	Electricity Generation from MFCs Using Differently Grown Anode-Attached Bacteria. <i>Environmental Engineering Research</i> , 2010, 15, 71-78.	2.5	10
49	Convergence of direct-transesterification and anaerobic digestion for improved bioenergy potentials of microalgae. <i>Journal of Cleaner Production</i> , 2018, 178, 749-756.	9.3	9
50	Feasibility study of the IE-SASW method for nondestructive evaluation of containment building structures in nuclear power plants. <i>Nuclear Engineering and Design</i> , 2003, 219, 97-110.	1.7	7
51	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.	5.3	7
52	Optimal Temperature and Light Intensity for Improved Mixotrophic Metabolism of <i>Chlorella sorokiniana</i> Treating Livestock Wastewater. <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 2010-2018.	2.1	7
53	Solid-phase extraction of long-chain fatty acids from aqueous solution. <i>Separation and Purification Technology</i> , 2013, 106, 1-7.	7.9	6
54	Effect of Nitrate and Perchlorate on Selenate Reduction in a Sequencing Batch Reactor. <i>Processes</i> , 2020, 8, 344.	2.8	6

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55	Optimized Pretreatment of Non-Thermal Plasma for Advanced Sewage Oxidation. International Journal of Environmental Research and Public Health, 2020, 17, 7694.	2.6	5
56	Techno-economic analysis of livestock urine and manure as a microalgal growth medium. Waste Management, 2021, 135, 276-286.	7.4	5
57	Zero Discharge of Dyes and Regeneration of a Washing Solution in Membrane-Based Dye Removal by Cold Plasma Treatment. Membranes, 2022, 12, 546.	3.0	5
58	Biodiesel Production from Waste Cooking Grease: Optimization and Comparative Productivity Assessment. KSCE Journal of Civil Engineering, 2019, 23, 1000-1006.	1.9	4
59	Coupling cold plasma and membrane photobioreactor for enhanced fouling control during livestock excreta treatment. Chemosphere, 2021, 265, 129031.	8.2	4
60	Biodiesel potential of rendered fat from avian influenza infected poultry in a burial site. Korean Journal of Chemical Engineering, 2017, 34, 2806-2810.	2.7	3
61	Integration of submerged microfiltration and cold plasma for high-strength livestock excreta. Journal of Hazardous Materials, 2021, 401, 123280.	12.4	3
62	Microbial behavior and characteristics of biomass during starvation and their influence on ultrafiltration of activated sludge. Desalination and Water Treatment, 2016, 57, 7487-7494.	1.0	1
63	Statistical correlation of ecotoxicity and water quality parameters in slaughterhouse wastewater. Environmental Geochemistry and Health, 2020, 42, 1671-1680.	3.4	1
64	Carbon Source Competition in Biological Selenate Reduction under Other Oxyanions Contamination. Processes, 2020, 8, 1645.	2.8	1