Changsoo Lee

List of Publications by Year
in descending order

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93 papers	6,214 citations	101543 36 h-index	69250 77 g-index
94 all docs	94 docs citations	94 times ranked	6901 citing authors

#	Article	IF	Citations
1	Pretreatment of spent coffee grounds with alkaline soju bottle-washing wastewater for enhanced biomethanation. Biomass Conversion and Biorefinery, 2022, 12, 803-808.	4.6	7
2	Formation and characterization of conductive magnetite-embedded granules in upflow anaerobic sludge blanket reactor treating dairy wastewater. Bioresource Technology, 2022, 345, 126492.	9.6	12
3	A review of technologies for in-situ sulfide control in anaerobic digestion. Renewable and Sustainable Energy Reviews, 2022, 157, 112068.	16.4	36
4	Effects of Different pH Control Strategies on Microalgae Cultivation and Nutrient Removal from Anaerobic Digestion Effluent. Microorganisms, 2022, 10, 357.	3.6	27
5	Effects of applying external voltage on development of anaerobic dynamic membrane under high suspended solids conditions. Chemical Engineering Journal, 2022, 438, 135528.	12.7	2
6	Potential treatment of aged cow manure using spare capacity in anaerobic digesters treating a mixture of food waste and pig manure. Waste Management, 2022, 148, 22-32.	7.4	4
7	Long-term monitoring of a thermal hydrolysis-anaerobic co-digestion plant treating high-strength organic wastes: Process performance and microbial community dynamics. Bioresource Technology, 2021, 319, 124138.	9.6	15
8	Designing a marine outfall to reduce microbial risk on a recreational beach: Field experiment and modeling. Journal of Hazardous Materials, 2021, 409, 124587.	12.4	7
9	Anaerobic co-digestion of oil-extracted spent coffee grounds with various wastes: Experimental and kinetic modeling studies. Bioresource Technology, 2021, 322, 124470.	9.6	42
10	Enhancement of methanogenic biodegradation of tetramethylammonium hydroxide wastewater by co-digestion with ethyl lactate wastewater. Environmental Technology and Innovation, 2021, 21, 101372.	6.1	2
11	Long-term effectiveness of bioaugmentation with rumen culture in continuous anaerobic digestion of food and vegetable wastes under feed composition fluctuations. Bioresource Technology, 2021, 338, 125500.	9.6	25
12	Effectiveness of electromagnetic in situ magnetite capture in anaerobic sequencing batch treatment of dairy effluent under electro-syntrophic conditions. Renewable Energy, 2021, 179, 105-115.	8.9	13
13	Individual and combined effects of magnetite addition and external voltage application on anaerobic digestion of dairy wastewater. Bioresource Technology, 2020, 297, 122443.	9.6	39
14	Treatment of Cattle Manure by Anaerobic Co-Digestion with Food Waste and Pig Manure: Methane Yield and Synergistic Effect. International Journal of Environmental Research and Public Health, 2020, 17, 4737.	2.6	40
15	Magnetite-assisted in situ microbial oxidation of H2S to S0 during anaerobic digestion: A new potential for sulfide control. Chemical Engineering Journal, 2020, 397, 124982.	12.7	32
16	A critical review of pretreatment technologies to enhance anaerobic digestion and energy recovery. Fuel, 2020, 270, 117494.	6.4	216
17	The potential use of human urine as a solvent for biogas upgrading. Journal of Water Process Engineering, 2020, 36, 101343.	5.6	5
18	Editorial Preface to the Special Issue on â€œThe 2nd International Conference on Alternative Fuels and Energy: Futures and Challenges (ICAFE 2017)â€•23rdâ€“25th October 2017, Daegu, Republic of Korea. Waste and Biomass Valorization, 2020, 11, 1017-1017.	3.4	1

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19	Treatment of low-strength ammonia wastewater by single-stage partial nitritation and anammox using upflow dual-bed gel-carrier reactor (UDGR). Bioresource Technology, 2020, 304, 123023.	9.6	17
20	A review of the effects of iron compounds on methanogenesis in anaerobic environments. Renewable and Sustainable Energy Reviews, 2019, 113, 109282.	16.4	83
21	Co-feeding spent coffee grounds in anaerobic food waste digesters: Effects of co-substrate and stabilization strategy. Bioresource Technology, 2019, 288, 121594.	9.6	9
22	Human urine as a forward osmosis draw solution for the application of microalgae dewatering. Journal of Hazardous Materials, 2019, 378, 120724.	12.4	41
23	Nutrient removal and microalgal biomass production from different anaerobic digestion effluents with Chlorella species. Scientific Reports, 2019, 9, 6123.	3.3	40
24	Anaerobic co-digestion of food waste, human feces, and toilet paper: Methane potential and synergistic effect. Fuel, 2019, 248, 189-195.	6.4	59
25	Potential of mixed-culture microalgae enriched from aerobic and anaerobic sludges for nutrient removal and biomass production from anaerobic effluents. Bioresource Technology, 2019, 280, 325-336.	9.6	19
26	Temperature Effects on Methanogenesis and Sulfidogenesis during Anaerobic Digestion of Sulfur-Rich Macroalgal Biomass in Sequencing Batch Reactors. Microorganisms, 2019, 7, 682.	3.6	19
27	Improving Biomethanation of Chicken Manure by Co-Digestion with Ethanol Plant Effluent. International Journal of Environmental Research and Public Health, 2019, 16, 5023.	2.6	13
28	Energy production from different organic wastes by anaerobic co-digestion: Maximizing methane yield versus maximizing synergistic effect. Renewable Energy, 2019, 136, 683-690.	8.9	42
29	Anaerobic co-digestion of high-strength organic wastes pretreated by thermal hydrolysis. Bioresource Technology, 2018, 257, 238-248.	9.6	26
30	A comparative study of single- and two-phase anaerobic digestion of food waste under uncontrolled pH conditions. Waste Management, 2018, 78, 509-520.	7.4	40
31	Role and Potential of Direct Interspecies Electron Transfer in Anaerobic Digestion. Energies, 2018, 11, 107.	3.1	238
32	Effect of Mild-Temperature Thermo-Alkaline Pretreatment on the Solubilization and Anaerobic Digestion of Spent Coffee Grounds. Energies, 2018, 11, 865.	3.1	22
33	Biomethanation of Harmful Macroalgal Biomass in Leach-Bed Reactor Coupled to Anaerobic Filter: Effect of Water Regime and Filter Media. International Journal of Environmental Research and Public Health, 2018, 15, 866.	2.6	6
34	A long-term study on the effect of magnetite supplementation in continuous anaerobic digestion of dairy effluent â€“ Magnetic separation and recycling of magnetite. Bioresource Technology, 2017, 241, 830-840.	9.6	100
35	Microbial community shifts in a farm-scale anaerobic digester treating swine waste: Correlations between bacteria communities associated with hydrogenotrophic methanogens and environmental conditions. Science of the Total Environment, 2017, 601-602, 167-176.	8.0	32
36	Ulva biomass as a co-substrate for stable anaerobic digestion of spent coffee grounds in continuous mode. Bioresource Technology, 2017, 241, 1182-1190.	9.6	14

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37	Effect of enhanced biomass retention by sequencing batch operation on biomethanation of sulfur-rich macroalgal biomass: Process performance and microbial ecology. Algal Research, 2017, 28, 128-138.	4.6	8
38	Development of biocathode during repeated cycles of bioelectrochemical conversion of carbon dioxide to methane. Bioresource Technology, 2017, 241, 1201-1207.	9.6	53
39	Anaerobic co-digestion of spent coffee grounds with different waste feedstocks for biogas production. Waste Management, 2017, 60, 322-328.	7.4	101
40	Science Walden: Exploring the Convergence of Environmental Technologies with Design and Art. Sustainability, 2017, 9, 35.	3.2	1
41	Carbon amendment and soil depth affect the distribution and abundance of denitrifiers in agricultural soils. Environmental Science and Pollution Research, 2016, 23, 7899-7910.	5.3	35
42	Response of a continuous anaerobic digester to temperature transitions: A critical range for restructuring the microbial community structure and function. Water Research, 2016, 89, 241-251.	11.3	48
43	Continuous fermentation of food waste leachate for the production of volatile fatty acids and potential as a denitrification carbon source. Bioresource Technology, 2016, 207, 440-445.	9.6	83
44	Continuous treatment of dairy effluent in a downflow anaerobic filter packed with slag grains: Reactor performance and kinetics. Journal of the Taiwan Institute of Chemical Engineers, 2016, 68, 147-152.	5.3	14
45	Effect of low pH start-up on continuous mixed-culture lactic acid fermentation of dairy effluent. Applied Microbiology and Biotechnology, 2016, 100, 10179-10191.	3.6	17
46	Continuous anaerobic co-digestion of Ulva biomass and cheese whey at varying substrate mixing ratios: Different responses in two reactors with different operating regimes. Bioresource Technology, 2016, 221, 366-374.	9.6	26
47	A long-term study on the effect of magnetite supplementation in continuous anaerobic digestion of dairy effluent â€“ Enhancement in process performance and stability. Bioresource Technology, 2016, 222, 344-354.	9.6	103
48	Mesophilic Acidogenesis of Food Waste-Recycling Wastewater: Effects of Hydraulic Retention Time, pH, and Temperature. Applied Biochemistry and Biotechnology, 2016, 180, 980-999.	2.9	23
49	Disintegration of Waste Activated Sludge by Thermally-Activated Persulfates for Enhanced Dewaterability. Environmental Science & Technology, 2016, 50, 7106-7115.	10.0	223
50	Biomethanation potential of marine macroalgal Ulva biomass in sequencing batch mode: Changes in process performance and microbial community structure over five cycles. Biomass and Bioenergy, 2016, 91, 143-149.	5.7	8
51	Bioaugmentation of anaerobic sludge digestion with iron-reducing bacteria: process and microbial responses to variations in hydraulic retention time. Applied Microbiology and Biotechnology, 2016, 100, 927-937.	3.6	45
52	Mild-temperature thermochemical pretreatment of green macroalgal biomass: Effects on solubilization, methanation, and microbial community structure. Bioresource Technology, 2016, 199, 326-335.	9.6	36
53	Response of a continuous biomethanation process to transient organic shock loads under controlled and uncontrolled pH conditions. Water Research, 2015, 73, 68-77.	11.3	33
54	Enrichment of ANAMMOX bacteria from conventional activated sludge entrapped in poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	12.7	77

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55	Development of anaerobic osmotic membrane bioreactor for low-strength wastewater treatment at mesophilic condition. Journal of Membrane Science, 2015, 490, 197-208.	8.2	116
56	Assessment of bacterial community structure in nitrifying biofilm under inorganic carbon-sufficient and -limited conditions. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2015, 50, 201-212.	1.7	7
57	Anaerobic treatment of rice winery wastewater in an upflow filter packed with steel slag under different hydraulic loading conditions. Bioresource Technology, 2015, 193, 53-61.	9.6	31
58	Characterization of food waste-recycling wastewater as biogas feedstock. Bioresource Technology, 2015, 196, 200-208.	9.6	34
59	The biostimulation of anaerobic digestion with (semi)conductive ferric oxides: their potential for enhanced biomethanation. Applied Microbiology and Biotechnology, 2015, 99, 10355-10366.	3.6	128
60	Rapid fingerprinting of methanogenic communities by high-resolution melting analysis. Bioresource Technology, 2014, 174, 321-327.	9.6	7
61	Effect of mild-temperature H₂O₂oxidation on solubilization and anaerobic digestion of waste activated sludge. Environmental Technology (United Kingdom), 2014, 35, 1702-1709.	2.2	9
62	Shifts in bacterial and archaeal community structures during the batch biomethanation of Ulva biomass under mesophilic conditions. Bioresource Technology, 2014, 169, 502-509.	9.6	25
63	Influence of ferric oxyhydroxide addition on biomethanation of waste activated sludge in a continuous reactor. Bioresource Technology, 2014, 166, 596-601.	9.6	60
64	Abundance of denitrification genes under different peizometer depths in four Irish agricultural groundwater sites. Environmental Science and Pollution Research, 2013, 20, 6646-6657.	5.3	15
65	Quantitative real-time PCR approaches for microbial community studies in wastewater treatment systems: Applications and considerations. Biotechnology Advances, 2013, 31, 1358-1373.	11.7	112
66	Absolute dominance of hydrogenotrophic methanogens in full-scale anaerobic sewage sludge digesters. Journal of Environmental Sciences, 2013, 25, 2272-2280.	6.1	52
67	Changes in Microbial Community Structure During Anaerobic Repeated-Batch Treatment of Cheese-Processing Wastewater. APCBEE Procedia, 2013, 5, 520-526.	0.5	5
68	Effects of temperature and pH on the biokinetic properties of thiocyanate biodegradation under autotrophic conditions. Water Research, 2013, 47, 251-258.	11.3	19
69	Thermo-alkaline pretreatment of waste activated sludge at low-temperatures: Effects on sludge disintegration, methane production, and methanogen community structure. Bioresource Technology, 2013, 144, 194-201.	9.6	96
70	Comparative study of changes in reaction profile and microbial community structure in two anaerobic repeated-batch reactors started up with different seed sludges. Bioresource Technology, 2013, 129, 495-505.	9.6	45
71	Performance of methanogenic reactors in temperature phased two-stage anaerobic digestion of swine wastewater. Journal of Bioscience and Bioengineering, 2012, 114, 635-639.	2.2	29
72	Quantitative and qualitative analyses of methanogenic community development in high-rate anaerobic bioreactors. Water Research, 2011, 45, 1298-1308.	11.3	87

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73	Common key acidogen populations in anaerobic reactors treating different wastewaters: Molecular identification and quantitative monitoring. Water Research, 2011, 45, 2539-2549.	11.3	27
74	Mycelial cultivation of Phellinus linteus using cheese-processing waste and optimization of bioconversion conditions. Biodegradation, 2011, 22, 103-110.	3.0	14
75	Quantitative and qualitative transitions of methanogen community structure during the batch anaerobic digestion of cheese-processing wastewater. Applied Microbiology and Biotechnology, 2010, 87, 1963-1973.	3.6	51
76	Qualitative and quantitative assessment of microbial community in batch anaerobic digestion of secondary sludge. Bioresource Technology, 2010, 101, 9461-9470.	9.6	144
77	Microbial community dynamics associated with biomass granulation in low-temperature (15Â°C) anaerobic wastewater treatment bioreactors. Bioresource Technology, 2010, 101, 6336-6344.	9.6	37
78	A comprehensive microbial insight into two-stage anaerobic digestion of food waste-recycling wastewater. Water Research, 2010, 44, 4838-4849.	11.3	195
79	Methanogenic community shift in anaerobic batch digesters treating swine wastewater. Water Research, 2010, 44, 4900-4907.	11.3	41
80	Unusual bacterial populations observed in a full-scale municipal sludge digester affected by intermittent seawater inputs. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 769-773.	3.0	8
81	Fermentation and growth kinetic study of Aeromonas caviae under anaerobic conditions. Applied Microbiology and Biotechnology, 2009, 83, 767-773.	3.6	15
82	Psychrophilic methanogenic community development during long-term cultivation of anaerobic granular biofilms. ISME Journal, 2009, 3, 1231-1242.	9.8	96
83	Quantitative analysis of methanogenic community dynamics in three anaerobic batch digesters treating different wastewaters. Water Research, 2009, 43, 157-165.	11.3	141
84	Quantitative and qualitative analysis of methanogenic communities in mesophilically and psychrophilically cultivated anaerobic granular biofilims. Water Research, 2009, 43, 3365-3374.	11.3	74
85	Correlation of microbial mass with ATP and DNA concentrations in acidogenesis of whey permeate. Biodegradation, 2008, 19, 187-195.	3.0	13
86	Real-time PCR determination of rRNA gene copy number: absolute and relative quantification assays with Escherichia coli. Applied Microbiology and Biotechnology, 2008, 78, 371-376.	3.6	114
87	Use of order-specific primers to investigate the methanogenic diversity in acetate enrichment system. Journal of Industrial Microbiology and Biotechnology, 2008, 35, 1345-1352.	3.0	20
88	Monitoring bacterial and archaeal community shifts in a mesophilic anaerobic batch reactor treating a high-strength organic wastewater. FEMS Microbiology Ecology, 2008, 65, 544-554.	2.7	90
89	Monitoring thiocyanate-degrading microbial community in relation to changes in process performance in mixed culture systems near washout. Water Research, 2008, 42, 1254-1262.	11.3	34
90	Absolute and relative QPCR quantification of plasmid copy number in Escherichia coli. Journal of Biotechnology, 2006, 123, 273-280.	3.8	590

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91	Optimization of adenosine 5â€²-triphosphate extraction for the measurement ofâ£acidogenic biomass utilizing whey wastewater. Biodegradation, 2006, 17, 347-355.	3.0	11
92	Groupâ€specific primer and probe sets to detect methanogenic communities using quantitative realâ€time polymerase chain reaction. Biotechnology and Bioengineering, 2005, 89, 670-679.	3.3	1,321
93	Isolation and identification of thiocyanate utilizing chemolithotrophs from gold mine soils. Biodegradation, 2003, 14, 183-188.	3.0	21