Liang Yu

List of Publications by Year
in descending order

43 papers	2,010 citations	236925 25 h-index	276875 41 g-index
43 all docs	43 docs citations	43 times ranked	2586 citing authors

#	Article	IF	Citations
1	Performances of anaerobic co-digestion of fruit & vegetable waste (FVW) and food waste (FW): Single-phase vs. two-phase. Bioresource Technology, 2013, 144, 80-85.	9.6	290
2	Mixotrophic cultivation of a Chlorella sorokiniana strain for enhanced biomass and lipid production. Biomass and Bioenergy, 2014, 66, 204-213.	5.7	196
3	A simple methodology for rate-limiting step determination for anaerobic digestion of complex substrates and effect of microbial community ratio. Bioresource Technology, 2013, 134, 391-395.	9.6	143
4	Numerical simulation of the bubbling fluidized bed coal gasification by the kinetic theory of granular flow (KTGF). Fuel, 2007, 86, 722-734.	6.4	137
5	High productivity cultivation of a heat-resistant microalga Chlorella sorokiniana for biofuel production. Bioresource Technology, 2013, 131, 60-67.	9.6	120
6	Mesophilic anaerobic co-digestion of cattle manure and corn stover with biological and chemical pretreatment. Bioresource Technology, 2015, 198, 431-436.	9.6	95
7	BrÃ¸nstedâ€"Lewis Acidic Ionic Liquids and Application in Oxidative Desulfurization of Diesel Fuel. Energy & Fuels, 2015, 29, 2998-3003.	5.1	80
8	Numerical simulation of mechanical mixing in high solid anaerobic digester. Bioresource Technology, 2011, 102, 1012-1018.	9.6	72
9	Computational fluid dynamics study on mixing mode and power consumption in anaerobic mono- and co-digestion. Bioresource Technology, 2016, 203, 166-172.	9.6	61
10	Enhancing volatile fatty acid (VFA) and bio-methane production from lawn grass with pretreatment. Bioresource Technology, 2014, 162, 243-249.	9.6	60
11	Kinetics of psychrophilic anaerobic sequencing batch reactor treating flushed dairy manure. Bioresource Technology, 2013, 131, 6-12.	9.6	48
12	Mathematical Modeling in Anaerobic Digestion (AD). Journal of Bioremediation & Biodegradation, 0, s4, .	0.5	47
13	Methanosarcina domination in anaerobic sequencing batch reactor at short hydraulic retention time. Bioresource Technology, 2013, 137, 41-50.	9.6	44
14	Different effects of ozone and aqueous ammonia in a combined pretreatment method on rice straw and dairy manure fiber for enhancing biomethane production. Bioresource Technology, 2019, 282, 275-284.	9.6	43
15	Numerical simulation of single bubble motion in ionic liquids. Chemical Engineering Science, 2010, 65, 6036-6047.	3.8	36
16	Simultaneous ammonia stripping and anaerobic digestion for efficient thermophilic conversion of dairy manure at high solids concentration. Energy, 2017, 141, 179-188.	8.8	36
17	Isolation, characterization, and validation of oleaginous, multi-trophic, and haloalkaline-tolerant microalgae for two-stage cultivation. Algal Research, 2014, 4, 2-11.	4.6	33
18	Enhancing Biogas Production from Anaerobically Digested Wheat Straw Through Ammonia Pretreatment. Chinese Journal of Chemical Engineering, 2014, 22, 576-582.	3.5	33

#	Article	IF	Citations
19	Enhancing ethanol production from thermophilic and mesophilic solid digestate using ozone combined with aqueous ammonia pretreatment. Bioresource Technology, 2016, 207, 52-58.	9.6	33
20	pH shaped kinetic characteristics and microbial community of food waste hydrolysis and acidification. Biochemical Engineering Journal, 2019, 146, 52-59.	3.6	33
21	Multiphase modeling of settling and suspension in anaerobic digester. Applied Energy, 2013, 111, 28-39.	10.1	29
22	Computer-Assisted Rational Modifications to Improve the Thermostability of Î²-Glucosidase from Penicillium piceum H16. Bioenergy Research, 2015, 8, 1384-1390.	3.9	29
23	Experimental and modeling study of a two-stage pilot scale high solid anaerobic digester system. Bioresource Technology, 2012, 124, 8-17.	9.6	28
24	Direct quantification of fatty acids in wet microalgal and yeast biomass via a rapid in situ fatty acid methyl ester derivatization approach. Applied Microbiology and Biotechnology, 2015, 99, 10237-10247.	3.6	28
25	Extractive Desulfurization of Fuel Oils with Dicyano(nitroso)methanide-based Ionic Liquids. Separation Science and Technology, 2015, 50, 1166-1174.	2.5	28
26	Effect on anaerobic digestion performance of corn stover by freezingâ€"thawing with ammonia pretreatment. Chinese Journal of Chemical Engineering, 2019, 27, 200-207.	3.5	26
27	Simulation Study for Pneumatic Conveying Drying of Sawdust for Pellet Production. Drying Technology, 2014, 32, 1142-1156.	3.1	24
28	Closing ammonia loop in efficient biogas production: Recycling ammonia pretreatment of wheat straw. Biosystems Engineering, 2019, 180, 182-190.	4.3	24
29	Hydrodynamic and kinetic study of cellulase production by <i>Trichoderma reesei</i> with pellet morphology. Biotechnology and Bioengineering, 2012, 109, 1755-1768.	3.3	23
30	Desulfurization of Real Fuel Oils by Extraction with Ionic Liquids. Separation Science and Technology, 2013, 48, 2582-2588.	2.5	19
31	Characterization of the Interactions between Polyethylene Glycol and Cellulase during the Hydrolysis of Lignocellulose. Bioenergy Research, 2015, 8, 270-278.	3.9	17
32	Biomethane production from whole and extracted algae biomass: Long-term performance evaluation and microbial community dynamics. Renewable Energy, 2021, 170, 38-48.	8.9	15
33	Analysis and optimization of ammonia stripping using multi-fluid model. Water Science and Technology, 2011, 63, 1143-1152.	2.5	14
34	A kinetic model of heterotrophic and mixotrophic cultivation of the potential biofuel organism microalgae Chlorella sorokiniana. Algal Research, 2022, 64, 102701.	4.6	14
35	Experimental investigation of hydrodynamic parameters and bubble characteristics in CO_2 absorption column using pure ionic liquid and binary mixtures: Effect of porous sparger and operating conditions. Chemical Engineering Science, 2021, 229, 116041.	3.8	12
36	Numerical modeling for characterization of CO_2 bubble formation through submerged orifice in ionic liquids. Chemical Engineering Research and Design, 2019, 146, 104-116.	5.6	8

#	Article	IF	Citations
37	Two fluid model using kinetic theory for modeling of one‑step hydrogen production gasifier. AICHE Journal, 2008, 54, 2833-2851.	3.6	7
38	Effects of different antibiotic operation modes on anaerobic digestion of dairy manure: Focus on microbial population dynamics. Journal of Environmental Chemical Engineering, 2021, 9, 105521.	6.7	7
39	Rational design of pore structures for carbon aerogels to significantly increase adsorption of tetracycline from water using batch and fixed-bed operation. Environmental Science: Nano, 2021, 8, 3250-3261.	4.3	7
40	UP Finder: A COBRA toolbox extension for identifying gene overexpression strategies for targeted overproduction. Metabolic Engineering Communications, 2017, 5, 54-59.	3.6	5
41	Effects of increasing organic loading rates on reactor performance and the methanogenic community in a new pilot upflow solid reactor for continuously processing food waste. Renewable Energy, 2020, 153, 420-429.	8.9	5
42	Biorefinery Processing of Waste to Supply Cost-Effective and Sustainable Inputs for Two-Stage Microalgal Cultivation. Applied Sciences (Switzerland), 2022, 12, 1485.	2.5	1
43	Numerical Simulation of Effect of Internals on Slugging Fluidization and Analysis of Nonuniformity Index. International Journal of Chemical Reactor Engineering, 2012, 10, .	1.1	0