

Wen Wang

List of Publications by Year in descending order

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53
papers

2,044
citations

236833

25
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243529

44
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all docs

54
docs citations

54
times ranked

2254
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible polyaniline/carbon nanotube nanocomposite film-based electronic gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 47-53.	4.0	149
2	Performance and microbial community analysis of the anaerobic reactor with coke oven gas biomethanation and in situ biogas upgrading. <i>Bioresource Technology</i> , 2013, 146, 234-239.	4.8	138
3	Mitigation of ammonia inhibition through bioaugmentation with different microorganisms during anaerobic digestion: Selection of strains and reactor performance evaluation. <i>Water Research</i> , 2019, 155, 214-224.	5.3	124
4	Effects of Ammonia on Anaerobic Digestion of Food Waste: Process Performance and Microbial Community. <i>Energy & Fuels</i> , 2016, 30, 5749-5757.	2.5	112
5	Effect of ammonia on methane production, methanogenesis pathway, microbial community and reactor performance under mesophilic and thermophilic conditions. <i>Renewable Energy</i> , 2018, 125, 915-925.	4.3	105
6	Evaluation of pretreatment methods on mixed inoculum for both batch and continuous thermophilic biohydrogen production from cassava stillage. <i>Bioresource Technology</i> , 2010, 101, 959-964.	4.8	102
7	Anaerobic treatment of cassava stillage for hydrogen and methane production in continuously stirred tank reactor (CSTR) under high organic loading rate (OLR). <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11733-11737.	3.8	93
8	Effect of Organic Loading Rate on Anaerobic Digestion of Food Waste under Mesophilic and Thermophilic Conditions. <i>Energy & Fuels</i> , 2017, 31, 2976-2984.	2.5	92
9	Biohydrogen and methane production by co-digestion of cassava stillage and excess sludge under thermophilic condition. <i>Bioresource Technology</i> , 2011, 102, 3833-3839.	4.8	90
10	A new degassing membrane coupled upflow anaerobic sludge blanket (UASB) reactor to achieve in-situ biogas upgrading and recovery of dissolved CH ₄ from the anaerobic effluent. <i>Applied Energy</i> , 2014, 132, 536-542.	5.1	69
11	Enhancing methane production of corn stover through a novel way: Sequent pretreatment of potassium hydroxide and steam explosion. <i>Bioresource Technology</i> , 2015, 181, 345-350.	4.8	68
12	Agricultural and livestock sector's residues in Greece & China: Comparative qualitative and quantitative characterization for assessing their potential for biogas production. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111821.	8.2	62
13	Anaerobic Digestion for Simultaneous Sewage Sludge Treatment and CO ₂ Biomethanation: Process Performance and Microbial Ecology. <i>Environmental Science & Technology</i> , 2013, 47, 130904143045005.	4.6	61
14	Pretreatment of Corn Stover for Methane Production with the Combination of Potassium Hydroxide and Calcium Hydroxide. <i>Energy & Fuels</i> , 2015, 29, 5841-5846.	2.5	61
15	The effects of pH and temperature on the acetate production and microbial community compositions by syngas fermentation. <i>Fuel</i> , 2018, 224, 537-544.	3.4	48
16	Improvement of biofuel recovery from food waste by integration of anaerobic digestion, digestate pyrolysis and syngas biomethanation under mesophilic and thermophilic conditions. <i>Journal of Cleaner Production</i> , 2020, 256, 120594.	4.6	42
17	Effect of sodium salt on anaerobic digestion of kitchen waste. <i>Water Science and Technology</i> , 2016, 73, 1865-1871.	1.2	36
18	Anaerobic digestion performance of vinegar residue in continuously stirred tank reactor. <i>Bioresource Technology</i> , 2015, 186, 338-342.	4.8	33

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19	Bioaugmentation with well-constructed consortia can effectively alleviate ammonia inhibition of practical manure anaerobic digestion. <i>Water Research</i> , 2022, 215, 118244.	5.3	33
20	Exploring optimal conditions for thermophilic fermentative hydrogen production from cassava stillage. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6161-6169.	3.8	32
21	Long-term evaluation of bioaugmentation to alleviate ammonia inhibition during anaerobic digestion: Process monitoring, microbial community response, and methanogenic pathway modeling. <i>Chemical Engineering Journal</i> , 2020, 399, 125765.	6.6	32
22	Maximization of the methane production from durian shell during anaerobic digestion. <i>Bioresource Technology</i> , 2017, 238, 433-438.	4.8	30
23	Enhanced fermentative hydrogen production from cassava stillage by co-digestion: The effects of different co-substrates. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6980-6988.	3.8	29
24	Catalytic fast pyrolysis of agricultural residues and dedicated energy crops for the production of high energy density transportation biofuels. Part I: Chemical pathways and bio-oil upgrading. <i>Renewable Energy</i> , 2022, 185, 483-505.	4.3	29
25	Improve the Anaerobic Biodegradability by Copretreatment of Thermal Alkali and Steam Explosion of Lignocellulosic Waste. <i>BioMed Research International</i> , 2016, 2016, 1-10.	0.9	27
26	CO as electron donor for efficient medium chain carboxylate production by chain elongation: Microbial and thermodynamic insights. <i>Chemical Engineering Journal</i> , 2020, 390, 124577.	6.6	24
27	Mild Urea/KOH pretreatment to enhance enzymatic hydrolysis of corn stover with liquid waste recovery for plant growth. <i>Journal of Cleaner Production</i> , 2021, 284, 125392.	4.6	22
28	Assessment of pretreatment effects on anaerobic digestion of switchgrass: Economics-energy-environment (3E) analysis. <i>Industrial Crops and Products</i> , 2020, 145, 111957.	2.5	21
29	Modification and extension of anaerobic digestion model No.1 (ADM1) for syngas biomethanation simulation: From lab-scale to pilot-scale. <i>Chemical Engineering Journal</i> , 2021, 403, 126177.	6.6	21
30	Optimization of biohydrogen and methane recovery within a cassava ethanol wastewater/waste integrated management system. <i>Bioresource Technology</i> , 2012, 120, 165-172.	4.8	20
31	Solid-State Co-digestion of NaOH-Pretreated Corn Straw and Chicken Manure Under Mesophilic Condition. <i>Waste and Biomass Valorization</i> , 2018, 9, 1027-1035.	1.8	19
32	Microbial insights of enhanced anaerobic conversion of syngas into volatile fatty acids by co-fermentation with carbohydrate-rich synthetic wastewater. <i>Biotechnology for Biofuels</i> , 2020, 13, 53.	6.2	19
33	Recent Progress in the Steam Reforming of Bio-Oil for Hydrogen Production: A Review of Operating Parameters, Catalytic Systems and Technological Innovations. <i>Catalysts</i> , 2021, 11, 1526.	1.6	19
34	Methane production from acetate, formate and H ₂ /CO ₂ under high ammonia level: Modified ADM1 simulation and microbial characterization. <i>Science of the Total Environment</i> , 2021, 783, 147581.	3.9	18
35	Catalytic fast pyrolysis of agricultural residues and dedicated energy crops for the production of high energy density transportation biofuels. Part II: Catalytic research. <i>Renewable Energy</i> , 2022, 189, 315-338.	4.3	18
36	Comparison of the methane production potential and biodegradability of kitchen waste from different sources under mesophilic and thermophilic conditions. <i>Water Science and Technology</i> , 2017, 75, 1607-1616.	1.2	15

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37	Study of the combination of sulfuric acid treatment and thermal regeneration of spent powdered activated carbons from decolourization process in glucosamine production. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 121, 224-231.	1.8	14
38	Bio-electrochemically extracted nitrogen from residual resources for microbial protein production. <i>Bioresource Technology</i> , 2021, 337, 125353.	4.8	14
39	Modified anaerobic digestion model No.1 (<scp>ADM</scp>1) for modeling anaerobic digestion process at different ammonium concentrations. <i>Water Environment Research</i> , 2019, 91, 700-714.	1.3	13
40	Comparison of Anaerobic Methane Fermentation Performance and Ammonia Resistance with Different Inoculum Configurations. <i>Energy & Fuels</i> , 2019, 33, 8711-8720.	2.5	12
41	Efficient degradation of organic compounds in landfill leachate via developing bio-electro-Fenton process. <i>Journal of Environmental Management</i> , 2022, 319, 115719.	3.8	12
42	Catalytic Pyrolysis of Tar Model Compound with Various Bio-Char Catalysts to Recycle Char from Biomass Pyrolysis. <i>BioResources</i> , 2016, 11, .	0.5	11
43	Heterogeneous Catalysts Microbiome Hybrids for Efficient CO-Driven C6 Carboxylic Acid Synthesis via Metabolic Pathway Manipulation. <i>ACS Catalysis</i> , 2022, 12, 5834-5845.	5.5	11
44	Insight of co-fermentation of carbon monoxide with carbohydrate-rich wastewater for enhanced hydrogen production: Homoacetogenic inhibition and the role of pH. <i>Journal of Cleaner Production</i> , 2020, 267, 122027.	4.6	10
45	Optimizing key factors for biomethane production from KOH-pretreated switchgrass by response surface methodology. <i>Environmental Science and Pollution Research</i> , 2019, 26, 25084-25091.	2.7	8
46	Calcium ion can alleviate ammonia inhibition on anaerobic digestion via balanced-strengthening dehydrogenases and reinforcing protein-binding structure: Model evaluation and microbial characterization. <i>Bioresource Technology</i> , 2022, 354, 127165.	4.8	7
47	pH regulation of the first phase could enhance the energy recovery from two-phase anaerobic digestion of food waste. <i>Water Environment Research</i> , 2021, 93, 1370-1380.	1.3	6
48	Enhanced thermophilic fermentative hydrogen production from cassava stillage by chemical pretreatments. <i>Water Science and Technology</i> , 2013, 68, 59-67.	1.2	5
49	KOH/urea pretreatment of bagasse for ethanol production without black liquor or wastewater generation. <i>Industrial Crops and Products</i> , 2022, 178, 114567.	2.5	3
50	Effect of Hydraulic Retention Time Distribution on Anaerobic Digestion of Kitchen Waste for Optimum Energy Recovery. <i>Journal of Biobased Materials and Bioenergy</i> , 2018, 12, 287-295.	0.1	2
51	Simultaneous supplementation of magnetite and polyurethane foam carrier can reach a Pareto-optimal point to alleviate ammonia inhibition during anaerobic digestion. <i>Renewable Energy</i> , 2022, 189, 104-116.	4.3	2
52	Influence of Nickel Impregnation on Behavior and Kinetic Characteristics of Oak Pyrolysis. <i>Journal of Biobased Materials and Bioenergy</i> , 2016, 10, 137-144.	0.1	0
53	Low-Cost Upgrading of Biomass Pyrolysis Vapors by Char Recycling in a Downstream Reactor. <i>Journal of Biobased Materials and Bioenergy</i> , 2016, 10, 145-150.	0.1	0