

Panyue Zhang

List of Publications by Year in descending order

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98
papers

3,988
citations

101384

36
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138251

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docs citations

98
times ranked

3800
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasonic treatment of biological sludge: Floc disintegration, cell lysis and inactivation. <i>Bioresource Technology</i> , 2007, 98, 207-210.	4.8	244
2	Enhancing sludge methanogenesis with improved redox activity of extracellular polymeric substances by hematite in red mud. <i>Water Research</i> , 2018, 134, 54-62.	5.3	175
3	Degradation properties of protein and carbohydrate during sludge anaerobic digestion. <i>Bioresource Technology</i> , 2015, 192, 126-130.	4.8	149
4	Overview of key operation factors and strategies for improving fermentative volatile fatty acid production and product regulation from sewage sludge. <i>Journal of Environmental Sciences</i> , 2020, 87, 93-111.	3.2	139
5	Effect of alkaline addition on anaerobic sludge digestion with combined pretreatment of alkaline and high pressure homogenization. <i>Bioresource Technology</i> , 2014, 168, 167-172.	4.8	125
6	Pilot-scale application of sulfur-limestone autotrophic denitrification biofilter for municipal tailwater treatment: Performance and microbial community structure. <i>Bioresource Technology</i> , 2020, 300, 122682.	4.8	110
7	Hydrogen sulfide formation control and microbial competition in batch anaerobic digestion of slaughterhouse wastewater sludge: Effect of initial sludge pH. <i>Bioresource Technology</i> , 2018, 259, 67-74.	4.8	107
8	Biological nutrient removal and recovery from solid and liquid livestock manure: Recent advance and perspective. <i>Bioresource Technology</i> , 2020, 301, 122823.	4.8	106
9	Biomass and carotenoid production in photosynthetic bacteria wastewater treatment: Effects of light intensity. <i>Bioresource Technology</i> , 2014, 171, 330-335.	4.8	99
10	Enhancement of anaerobic sludge digestion by high-pressure homogenization. <i>Bioresource Technology</i> , 2012, 118, 496-501.	4.8	98
11	Possibility of sludge conditioning and dewatering with rice husk biochar modified by ferric chloride. <i>Bioresource Technology</i> , 2016, 205, 258-263.	4.8	93
12	Improvement of methane production from rice straw with rumen fluid pretreatment: A feasibility study. <i>International Biodeterioration and Biodegradation</i> , 2016, 113, 9-16.	1.9	91
13	Quorum quenching in anaerobic membrane bioreactor for fouling control. <i>Water Research</i> , 2019, 156, 159-167.	5.3	91
14	Denitrification of landfill leachate under different hydraulic retention time in a two-stage anoxic/oxic combined membrane bioreactor process: Performances and bacterial community. <i>Bioresource Technology</i> , 2018, 250, 110-116.	4.8	87
15	Effect of COD/N ratio on nitrogen removal in a membrane-aerated biofilm reactor. <i>International Biodeterioration and Biodegradation</i> , 2016, 113, 74-79.	1.9	80
16	Ultrasound assisted alkaline pretreatment to enhance enzymatic saccharification of grass clipping. <i>Energy Conversion and Management</i> , 2017, 149, 409-415.	4.4	78
17	Two-stage anoxic/oxic combined membrane bioreactor system for landfill leachate treatment: Pollutant removal performances and microbial community. <i>Bioresource Technology</i> , 2017, 243, 738-746.	4.8	72
18	Conditioning of sewage sludge via combined ultrasonication-flocculation-skeleton building to improve sludge dewaterability. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 353-360.	3.8	68

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19	Microwave assisted alkaline pretreatment to enhance enzymatic saccharification of catalpa sawdust. <i>Bioresource Technology</i> , 2016, 221, 26-30.	4.8	67
20	White rot fungi pretreatment to advance volatile fatty acid production from solid-state fermentation of solid digestate: Efficiency and mechanisms. <i>Energy</i> , 2018, 162, 534-541.	4.5	64
21	Vertical microplastic distribution in sediments of Fuhe River estuary to Baiyangdian Wetland in Northern China. <i>Chemosphere</i> , 2021, 280, 130800.	4.2	63
22	Biomass and pigments production in photosynthetic bacteria wastewater treatment: Effects of light sources. <i>Bioresource Technology</i> , 2015, 179, 505-509.	4.8	61
23	Sewage sludge bioleaching by indigenous sulfur-oxidizing bacteria: Effects of ratio of substrate dosage to solid content. <i>Bioresource Technology</i> , 2009, 100, 1394-1398.	4.8	58
24	Biomass and pigments production in photosynthetic bacteria wastewater treatment: Effects of photoperiod. <i>Bioresource Technology</i> , 2015, 190, 196-200.	4.8	53
25	Comparison of various pretreatments for ethanol production enhancement from solid residue after rumen fluid digestion of rice straw. <i>Bioresource Technology</i> , 2018, 247, 147-156.	4.8	50
26	Simultaneous biological nitrogen and phosphorus removal with a sequencing batch reactorâ€biofilm system. <i>International Biodeterioration and Biodegradation</i> , 2015, 103, 221-226.	1.9	49
27	Transformation of bacterial community structure in rumen liquid anaerobic digestion of rice straw. <i>Environmental Pollution</i> , 2021, 269, 116130.	3.7	48
28	Rumen fluid fermentation for enhancement of hydrolysis and acidification of grass clipping. <i>Journal of Environmental Management</i> , 2018, 220, 142-148.	3.8	45
29	Volatile fatty acid production from spent mushroom compost: Effect of total solid content. <i>International Biodeterioration and Biodegradation</i> , 2016, 113, 217-221.	1.9	44
30	Enhancing Sewage Sludge Dewaterability by a Skeleton Builder: Biochar Produced from Sludge Cake Conditioned with Rice Husk Flour and FeCl ₃ . <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5711-5717.	3.2	43
31	Enhancement of corn stover hydrolysis with rumen fluid pretreatment at different solid contents: Effect, structural changes and enzymes participation. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 405-412.	1.9	42
32	Review on strategies of close-to-natural wetland restoration and a brief case plan for a typical wetland in northern China. <i>Chemosphere</i> , 2021, 285, 131534.	4.2	42
33	Influence of reflux ratio on two-stage anoxic/oxic with MBR for leachate treatment: Performance and microbial community structure. <i>Bioresource Technology</i> , 2018, 256, 69-76.	4.8	41
34	Benefit of solid-liquid separation on volatile fatty acid production from grass clipping with ultrasound-calcium hydroxide pretreatment. <i>Bioresource Technology</i> , 2019, 274, 97-104.	4.8	41
35	Enzyme Pretreatment Enhancing Biogas Yield from Corn Stover: Feasibility, Optimization, and Mechanism Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 10026-10032.	2.4	39
36	Contribution of solid and liquid fractions of sewage sludge pretreated by high pressure homogenization to biogas production. <i>Bioresource Technology</i> , 2019, 286, 121378.	4.8	38

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37	Effect of substrate load on anaerobic fermentation of rice straw with rumen liquid as inoculum: Hydrolysis and acidogenesis efficiency, enzymatic activities and rumen bacterial community structure. <i>Waste Management</i> , 2021, 124, 235-243.	3.7	38
38	High-pressure homogenization pretreatment of four different lignocellulosic biomass for enhancing enzymatic digestibility. <i>Bioresource Technology</i> , 2015, 181, 270-274.	4.8	37
39	Evaluation of white rot fungi pretreatment of mushroom residues for volatile fatty acid production by anaerobic fermentation: Feedstock applicability and fungal function. <i>Bioresource Technology</i> , 2020, 297, 122447.	4.8	35
40	Chain elongation performances with anaerobic fermentation liquid from sewage sludge with high total solid as electron acceptor. <i>Bioresource Technology</i> , 2020, 306, 123188.	4.8	35
41	Influence of some additives to aluminium species distribution in aluminium coagulants. <i>Chemosphere</i> , 2004, 57, 1489-1494.	4.2	34
42	Quorum quenching altered microbial diversity and activity of anaerobic membrane bioreactor (AnMBR) and enhanced methane generation. <i>Bioresource Technology</i> , 2020, 315, 123862.	4.8	32
43	Thermo-chemical pretreatment and enzymatic hydrolysis for enhancing saccharification of catalpa sawdust. <i>Bioresource Technology</i> , 2016, 205, 34-39.	4.8	31
44	Metagenomic analysis of community, enzymes and metabolic pathways during corn straw fermentation with rumen microorganisms for volatile fatty acid production. <i>Bioresource Technology</i> , 2021, 342, 126004.	4.8	30
45	Enhancement of cell production in photosynthetic bacteria wastewater treatment by low-strength ultrasound. <i>Bioresource Technology</i> , 2014, 161, 451-454.	4.8	29
46	Rice husk-based solid acid for efficient hydrolysis and saccharification of corncob. <i>Bioresource Technology</i> , 2019, 292, 121915.	4.8	29
47	Upgrading volatile fatty acids production through anaerobic co-fermentation of mushroom residue and sewage sludge: Performance evaluation and kinetic analysis. <i>Journal of Environmental Management</i> , 2019, 241, 612-618.	3.8	26
48	Feasibility of bioleaching combined with Fenton oxidation to improve sewage sludge dewaterability. <i>Journal of Environmental Sciences</i> , 2015, 28, 37-42.	3.2	25
49	High salinity slowed organic acid production from acidogenic fermentation of kitchen wastewater by shaping functional bacterial community. <i>Journal of Environmental Management</i> , 2022, 310, 114765.	3.8	25
50	Humic Acid Removal from Water with Polyaluminum Coagulants: Effect of Sulfate on Aluminum Polymerization. <i>Journal of Environmental Engineering, ASCE</i> , 2012, 138, 293-298.	0.7	24
51	Simultaneous in-situ remediation and fertilization of Cd-contaminated weak-alkaline farmland for wheat production. <i>Journal of Environmental Management</i> , 2019, 250, 109528.	3.8	24
52	Characterization and adsorption capacity of modified 3D porous aerogel from grapefruit peels for removal of oils and organic solvents. <i>Environmental Science and Pollution Research</i> , 2020, 27, 43493-43504.	2.7	24
53	Comparative study of high-pressure homogenization and alkaline-heat pretreatments for enhancing enzymatic hydrolysis and biogas production of grass clipping. <i>International Biodeterioration and Biodegradation</i> , 2015, 104, 477-481.	1.9	23
54	Adsorption Neutralization Model and Floc Growth Kinetics Properties of Aluminum Coagulants Based on Sips and Boltzmann Equations. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5992-5999.	4.0	23

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55	Enhancement of biological oxygen demand detection with a microbial fuel cell using potassium permanganate as cathodic electron acceptor. <i>Journal of Environmental Management</i> , 2019, 252, 109682.	3.8	23
56	Carbide slag pretreatment enhances volatile fatty acid production in anaerobic fermentation of four grass biomasses. <i>Energy Conversion and Management</i> , 2019, 199, 112009.	4.4	23
57	Long-term rumen microorganism fermentation of corn stover in vitro for volatile fatty acid production. <i>Bioresource Technology</i> , 2022, 358, 127447.	4.8	23
58	Comparison of Response Surface Methodology and Artificial Neural Network in Optimization and Prediction of Acid Activation of Bauxsol for Phosphorus Adsorption. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	22
59	Benchmark study of photosynthetic bacteria bio-conversion of wastewater: Carbon source range, fundamental kinetics of substrate degradation and cell proliferation. <i>Bioresource Technology Reports</i> , 2018, 1, 31-38.	1.5	21
60	Effect of Acid/Ethanol Ratio on Medium Chain Carboxylate Production with Different VFAs as the Electron Acceptor: Insight into Carbon Balance and Microbial Community. <i>Energies</i> , 2019, 12, 3720.	1.6	21
61	Responses of short-chain fatty acids production to the addition of various biocarriers to sludge anaerobic fermentation. <i>Bioresource Technology</i> , 2020, 304, 122989.	4.8	21
62	Preparation of a New Granular Acid-Activated Neutralized Red Mud and Evaluation of Its Performance for Phosphate Adsorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3324-3331.	3.2	20
63	Efficiency comparison for treatment of amantadine pharmaceutical wastewater by Fenton, ultrasonic, and Fenton/ultrasonic processes. <i>Environmental Earth Sciences</i> , 2015, 73, 4979-4987.	1.3	20
64	Nitrogen metabolism in photosynthetic bacteria wastewater treatment: A novel nitrogen transformation pathway. <i>Bioresource Technology</i> , 2019, 294, 122162.	4.8	20
65	Application of acid-activated Bauxsol for wastewater treatment with high phosphate concentration: Characterization, adsorption optimization, and desorption behaviors. <i>Journal of Environmental Management</i> , 2016, 167, 1-7.	3.8	19
66	Thermo-carbide slag pretreatment of turfgrass pruning: Physical-chemical structure changes, reducing sugar production, and enzymatic hydrolysis kinetics. <i>Energy Conversion and Management</i> , 2018, 155, 169-174.	4.4	19
67	Membrane concentrate treatment by photosynthetic bacteria: Feasibility and tolerance mechanism analysis. <i>Bioresource Technology</i> , 2018, 253, 378-381.	4.8	18
68	Thermo-carbide slag pretreatment of energy plants for enhancing enzymatic hydrolysis. <i>Industrial Crops and Products</i> , 2018, 120, 77-83.	2.5	18
69	Fe1-xS/biochar combined with thiobacillus enhancing lead phytoavailability in contaminated soil: Preparation of biochar, enrichment of thiobacillus and their function on soil lead. <i>Environmental Pollution</i> , 2020, 267, 115447.	3.7	18
70	Phosphate Adsorption onto Granular-Acid-Activated-Neutralized Red Mud: Parameter Optimization, Kinetics, Isotherms, and Mechanism Analysis. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	17
71	Enhancing biological denitrification with adding sludge liquor of hydrolytic acidification pretreated by high-pressure homogenization. <i>International Biodeterioration and Biodegradation</i> , 2016, 113, 222-227.	1.9	17
72	A comparative study on the characteristics and coagulation mechanism of PAC-Al13 and PAC-Al30. <i>RSC Advances</i> , 2016, 6, 108369-108374.	1.7	16

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73	Iron Based Catalysts Used in Water Treatment Assisted by Ultrasound: A Mini Review. <i>Frontiers in Chemistry</i> , 2018, 6, 12.	1.8	16
74	Humic Acid Removal from Water with PAC-Al ₃₀ : Effect of Calcium and Kaolin and the Action Mechanisms. <i>ACS Omega</i> , 2020, 5, 16413-16420.	1.6	16
75	Pollutant removal from landfill leachate via two-stage anoxic/oxic combined membrane bioreactor: Insight in organic characteristics and predictive function analysis of nitrogen-removal bacteria. <i>Bioresource Technology</i> , 2020, 317, 124037.	4.8	15
76	Modified steel slag for effect prolongation of calcium peroxide: A novel approach to enhancing SCFAs production from sludge anaerobic fermentation. <i>Bioresource Technology</i> , 2020, 309, 123379.	4.8	15
77	Integrated powdered activated carbon and quorum quenching strategy for biofouling control in industrial wastewater membrane bioreactor. <i>Journal of Cleaner Production</i> , 2021, 279, 123551.	4.6	15
78	L-cysteine addition enhances microbial surface oxidation of coal inorganic sulfur: Complexation of cysteine and pyrite, inhibition of jarosite formation, environmental effects. <i>Environmental Research</i> , 2020, 187, 109705.	3.7	14
79	Enhancement of ultrasonic disintegration of sewage sludge by aeration. <i>Journal of Environmental Sciences</i> , 2016, 42, 163-167.	3.2	13
80	FACILE SYNTHESIS OF HUMIC ACID-COATED IRON OXIDE NANOPARTICLES AND THEIR APPLICATIONS IN WASTEWATER TREATMENT. <i>Functional Materials Letters</i> , 2011, 04, 373-376.	0.7	12
81	Anaerobic digestion of corn stovers for methane production in a novel bionic reactor. <i>Bioresource Technology</i> , 2014, 166, 606-609.	4.8	12
82	Ultrasonic enhancement of industrial sludge settling ability and dewatering ability. <i>Tsinghua Science and Technology</i> , 2006, 11, 374-378.	4.1	11
83	Power production waste. <i>Water Environment Research</i> , 2019, 91, 1091-1096.	1.3	11
84	Improvement of Direct Interspecies Electron Transfer via Adding Conductive Materials in Anaerobic Digestion: Mechanisms, Performances, and Challenges. <i>Frontiers in Microbiology</i> , 2022, 13, 860749.	1.5	10
85	Environmental evaluation of the application of compost sewage sludge to landscaping as soil amendments: a field experiment on the grassland soils in Beijing. <i>Desalination and Water Treatment</i> , 2015, 54, 1118-1126.	1.0	9
86	Changes in microbial communities during the removal of natural and synthetic glucocorticoids in three types of river-based aquifer media. <i>Environmental Science and Pollution Research</i> , 2019, 26, 33953-33962.	2.7	8
87	Construction of a Near-Natural Estuarine Wetland Evaluation Index System Based on Analytical Hierarchy Process and Its Application. <i>Water (Switzerland)</i> , 2021, 13, 2116.	1.2	8
88	Enhancement of sludge gravitational thickening with weak ultrasound. <i>Frontiers of Environmental Science and Engineering</i> , 2012, 6, 753-760.	3.3	5
89	Power production waste. <i>Water Environment Research</i> , 2020, 92, 1711-1716.	1.3	5
90	Novel insights into the coagulation process for pharmaceutical wastewater treatment with fluorescence EEMs-PARAFAC. <i>Water Science and Technology</i> , 2017, 76, 3246-3257.	1.2	4

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91	Study on Start-Up Membraneless Anaerobic Baffled Reactor Coupled with Microbial Fuel Cell for Dye Wastewater Treatment. ACS Omega, 2021, 6, 23515-23527.	1.6	4
92	Thermal Effects. Water Environment Research, 2015, 87, 1901-1913.	1.3	2
93	Influence of operational mode, temperature, and planting on the performances of tidal flow constructed wetland. Desalination and Water Treatment, 2016, 57, 8007-8014.	1.0	2
94	Thermal effects. Water Environment Research, 2020, 92, 1406-1411.	1.3	1
95	Pilot study of low-temperature low-turbidity reservoir water treatment using dual-media filtration with micro-flocculation. , 2011, , .		0
96	BAF-SCAD for advanced wastewater nitrogen removal. , 2011, , .		0
97	Thermal Effects. Water Environment Research, 2014, 86, 1955-1969.	1.3	0
98	Thermal effects. Water Environment Research, 2019, 91, 1097-1102.	1.3	0