Panyue Zhang

List of Publications by Year
in descending order

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98 papers	3,988 citations	101384 36 h-index	138251 58 g-index
98 all docs	98 docs citations	98 times ranked	3800 citing authors

#	Article	IF	Citations
1	Improvement of Direct Interspecies Electron Transfer via Adding Conductive Materials in Anaerobic Digestion: Mechanisms, Performances, and Challenges. Frontiers in Microbiology, 2022, 13, 860749.	1.5	10
2	High salinity slowed organic acid production from acidogenic fermentation of kitchen wastewater by shaping functional bacterial community. Journal of Environmental Management, 2022, 310, 114765.	3.8	25
3	Long-term rumen microorganism fermentation of corn stover in vitro for volatile fatty acid production. Bioresource Technology, 2022, 358, 127447.	4.8	23
4	Integrated powdered activated carbon and quorum quenching strategy for biofouling control in industrial wastewater membrane bioreactor. Journal of Cleaner Production, 2021, 279, 123551.	4.6	15
5	Transformation of bacterial community structure in rumen liquid anaerobic digestion of rice straw. Environmental Pollution, 2021, 269, 116130.	3.7	48
6	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. Waste Management, 2021, 124, 235-243.	3.7	38
7	Construction of a Near-Natural Estuarine Wetland Evaluation Index System Based on Analytical Hierarchy Process and Its Application. Water (Switzerland), 2021, 13, 2116.	1.2	8
8	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
9	Vertical microplastic distribution in sediments of Fuhe River estuary to Baiyangdian Wetland in Northern China. Chemosphere, 2021, 280, 130800.	4.2	63
10	Metagenomic analysis of community, enzymes and metabolic pathways during corn straw fermentation with rumen microorganisms for volatile fatty acid production. Bioresource Technology, 2021, 342, 126004.	4.8	30
11	Review on strategies of close-to-natural wetland restoration and a brief case plan for a typical wetland in northern China. Chemosphere, 2021, 285, 131534.	4.2	42
12	Overview of key operation factors and strategies for improving fermentative volatile fatty acid production and product regulation from sewage sludge. Journal of Environmental Sciences, 2020, 87, 93-111.	3.2	139
13	Pilot-scale application of sulfur-limestone autotrophic denitrification biofilter for municipal tailwater treatment: Performance and microbial community structure. Bioresource Technology, 2020, 300, 122682.	4.8	110
14	Evaluation of white rot fungi pretreatment of mushroom residues for volatile fatty acid production by anaerobic fermentation: Feedstock applicability and fungal function. Bioresource Technology, 2020, 297, 122447.	4.8	35
15	Fe1-xS/biochar combined with thiobacillus enhancing lead phytoavailability in contaminated soil: Preparation of biochar, enrichment of thiobacillus and their function on soil lead. Environmental Pollution, 2020, 267, 115447.	3.7	18
16	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. Bioresource Technology, 2020, 317, 124037.	4.8	15
17	Quorum quenching altered microbial diversity and activity of anaerobic membrane bioreactor (AnMBR) and enhanced methane generation. Bioresource Technology, 2020, 315, 123862.	4.8	32
18	Humic Acid Removal from Water with PAC-Al₃₀: Effect of Calcium and Kaolin and the Action Mechanisms. ACS Omega, 2020, 5, 16413-16420.	1.6	16

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19	Power production waste. Water Environment Research, 2020, 92, 1711-1716.	1.3	5
20	L-cysteine addition enhances microbial surface oxidation of coal inorganic sulfur: Complexation of cysteine and pyrite, inhibition of jarosite formation, environmental effects. Environmental Research, 2020, 187, 109705.	3.7	14
21	Modified steel slag for effect prolongation of calcium peroxide: A novel approach to enhancing SCFAs production from sludge anaerobic fermentation. Bioresource Technology, 2020, 309, 123379.	4.8	15
22	Characterization and adsorption capacity of modified 3D porous aerogel from grapefruit peels for removal of oils and organic solvents. Environmental Science and Pollution Research, 2020, 27, 43493-43504.	2.7	24
23	Chain elongation performances with anaerobic fermentation liquid from sewage sludge with high total solid as electron acceptor. Bioresource Technology, 2020, 306, 123188.	4.8	35
24	Responses of short-chain fatty acids production to the addition of various biocarriers to sludge anaerobic fermentation. Bioresource Technology, 2020, 304, 122989.	4.8	21
25	Biological nutrient removal and recovery from solid and liquid livestock manure: Recent advance and perspective. Bioresource Technology, 2020, 301, 122823.	4.8	106
26	Thermal effects. Water Environment Research, 2020, 92, 1406-1411.	1.3	1
27	Changes in microbial communities during the removal of natural and synthetic glucocorticoids in three types of river-based aquifer media. Environmental Science and Pollution Research, 2019, 26, 33953-33962.	2.7	8
28	Power production waste. Water Environment Research, 2019, 91, 1091-1096.	1.3	11
29	Thermal effects. Water Environment Research, 2019, 91, 1097-1102.	1.3	0
30	Rice husk-based solid acid for efficient hydrolysis and saccharification of corncob. Bioresource Technology, 2019, 292, 121915.	4.8	29
31	Enhancement of biological oxygen demand detection with a microbial fuel cell using potassium permanganate as cathodic electron acceptor. Journal of Environmental Management, 2019, 252, 109682.	3.8	23
32	Effect of Acid/Ethanol Ratio on Medium Chain Carboxylate Production with Different VFAs as the Electron Acceptor: Insight into Carbon Balance and Microbial Community. Energies, 2019, 12, 3720.	1.6	21
33	Nitrogen metabolism in photosynthetic bacteria wastewater treatment: A novel nitrogen transformation pathway. Bioresource Technology, 2019, 294, 122162.	4.8	20
34	Simultaneous in-situ remediation and fertilization of Cd-contaminated weak-alkaline farmland for wheat production. Journal of Environmental Management, 2019, 250, 109528.	3.8	24
35	Carbide slag pretreatment enhances volatile fatty acid production in anaerobic fermentation of four grass biomasses. Energy Conversion and Management, 2019, 199, 112009.	4.4	23
36	Contribution of solid and liquid fractions of sewage sludge pretreated by high pressure homogenization to biogas production. Bioresource Technology, 2019, 286, 121378.	4.8	38

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37	Quorum quenching in anaerobic membrane bioreactor for fouling control. Water Research, 2019, 156, 159-167.	5.3	91
38	Upgrading volatile fatty acids production through anaerobic co-fermentation of mushroom residue and sewage sludge: Performance evaluation and kinetic analysis. Journal of Environmental Management, 2019, 241, 612-618.	3.8	26
39	Benefit of solid-liquid separation on volatile fatty acid production from grass clipping with ultrasound-calcium hydroxide pretreatment. Bioresource Technology, 2019, 274, 97-104.	4.8	41
40	Hydrogen sulfide formation control and microbial competition in batch anaerobic digestion of slaughterhouse wastewater sludge: Effect of initial sludge pH. Bioresource Technology, 2018, 259, 67-74.	4.8	107
41	Enhancing sludge methanogenesis with improved redox activity of extracellular polymeric substances by hematite in red mud. Water Research, 2018, 134, 54-62.	5.3	175
42	Influence of reflux ratio on two-stage anoxic/oxic with MBR for leachate treatment: Performance and microbial community structure. Bioresource Technology, 2018, 256, 69-76.	4.8	41
43	Membrane concentrate treatment by photosynthetic bacteria: Feasibility and tolerance mechanism analysis. Bioresource Technology, 2018, 253, 378-381.	4.8	18
44	Benchmark study of photosynthetic bacteria bio-conversion of wastewater: Carbon source range, fundamental kinetics of substrate degradation and cell proliferation. Bioresource Technology Reports, 2018, 1, 31-38.	1.5	21
45	Conditioning of sewage sludge via combined ultrasonication-flocculation-skeleton building to improve sludge dewaterability. Ultrasonics Sonochemistry, 2018, 40, 353-360.	3.8	68
46	Comparison of various pretreatments for ethanol production enhancement from solid residue after rumen fluid digestion of rice straw. Bioresource Technology, 2018, 247, 147-156.	4.8	50
47	Denitrification of landfill leachate under different hydraulic retention time in a two-stage anoxic/oxic combined membrane bioreactor process: Performances and bacterial community. Bioresource Technology, 2018, 250, 110-116.	4.8	87
48	Thermo-carbide slag pretreatment of turfgrass pruning: Physical-chemical structure changes, reducing sugar production, and enzymatic hydrolysis kinetics. Energy Conversion and Management, 2018, 155, 169-174.	4.4	19
49	Enzyme Pretreatment Enhancing Biogas Yield from Corn Stover: Feasibility, Optimization, and Mechanism Analysis. Journal of Agricultural and Food Chemistry, 2018, 66, 10026-10032.	2.4	39
50	Thermo-carbide slag pretreatment of energy plants for enhancing enzymatic hydrolysis. Industrial Crops and Products, 2018, 120, 77-83.	2.5	18
51	Iron Based Catalysts Used in Water Treatment Assisted by Ultrasound: A Mini Review. Frontiers in Chemistry, 2018, 6, 12.	1.8	16
52	White rot fungi pretreatment to advance volatile fatty acid production from solid-state fermentation of solid digestate: Efficiency and mechanisms. Energy, 2018, 162, 534-541.	4.5	64
53	Rumen fluid fermentation for enhancement of hydrolysis and acidification of grass clipping. Journal of Environmental Management, 2018, 220, 142-148.	3.8	45
54	Enhancement of corn stover hydrolysis with rumen fluid pretreatment at different solid contents: Effect, structural changes and enzymes participation. International Biodeterioration and Biodegradation, 2017, 119, 405-412.	1.9	42

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55	Adsorption Neutralization Model and Floc Growth Kinetics Properties of Aluminum Coagulants Based on Sips and Boltzmann Equations. ACS Applied Materials & Interfaces, 2017, 9, 5992-5999.	4.0	23
56	Novel insights into the coagulation process for pharmaceutical wastewater treatment with fluorescence EEMs-PARAFAC. Water Science and Technology, 2017, 76, 3246-3257.	1.2	4
57	Ultrasound assisted alkaline pretreatment to enhance enzymatic saccharification of grass clipping. Energy Conversion and Management, 2017, 149, 409-415.	4.4	78
58	Two-stage anoxic/oxic combined membrane bioreactor system for landfill leachate treatment: Pollutant removal performances and microbial community. Bioresource Technology, 2017, 243, 738-746.	4.8	72
59	Improvement of methane production from rice straw with rumen fluid pretreatment: A feasibility study. International Biodeterioration and Biodegradation, 2016, 113, 9-16.	1.9	91
60	Volatile fatty acid production from spent mushroom compost: Effect of total solid content. International Biodeterioration and Biodegradation, 2016, 113, 217-221.	1.9	44
61	Microwave assisted alkaline pretreatment to enhance enzymatic saccharification of catalpa sawdust. Bioresource Technology, 2016, 221, 26-30.	4.8	67
62	Enhancing Sewage Sludge Dewaterability by a Skeleton Builder: Biochar Produced from Sludge Cake Conditioned with Rice Husk Flour and FeCl₃. ACS Sustainable Chemistry and Engineering, 2016, 4, 5711-5717.	3.2	43
63	A comparative study on the characteristics and coagulation mechanism of PAC-Al13 and PAC-Al30. RSC Advances, 2016, 6, 108369-108374.	1.7	16
64	Enhancing biological denitrification with adding sludge liquor of hydrolytic acidification pretreated by high-pressure homogenization. International Biodeterioration and Biodegradation, 2016, 113, 222-227.	1.9	17
65	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
66	Thermo-chemical pretreatment and enzymatic hydrolysis for enhancing saccharification of catalpa sawdust. Bioresource Technology, 2016, 205, 34-39.	4.8	31
67	Enhancement of ultrasonic disintegration of sewage sludge by aeration. Journal of Environmental Sciences, 2016, 42, 163-167.	3.2	13
68	Possibility of sludge conditioning and dewatering with rice husk biochar modified by ferric chloride. Bioresource Technology, 2016, 205, 258-263.	4.8	93
69	Effect of COD/N ratio on nitrogen removal in a membrane-aerated biofilm reactor. International Biodeterioration and Biodegradation, 2016, 113, 74-79.	1.9	80
70	Application of acid-activated Bauxsol for wastewater treatment with high phosphate concentration: Characterization, adsorption optimization, and desorption behaviors. Journal of Environmental Management, 2016, 167, 1-7.	3.8	19
71	Thermal Effects. Water Environment Research, 2015, 87, 1901-1913.	1.3	2
72	Biomass and pigments production in photosynthetic bacteria wastewater treatment: Effects of photoperiod. Bioresource Technology, 2015, 190, 196-200.	4.8	53

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73	Preparation of a New Granular Acid-Activated Neutralized Red Mud and Evaluation of Its Performance for Phosphate Adsorption. ACS Sustainable Chemistry and Engineering, 2015, 3, 3324-3331.	3.2	20
74	High-pressure homogenization pretreatment of four different lignocellulosic biomass for enhancing enzymatic digestibility. Bioresource Technology, 2015, 181, 270-274.	4.8	37
75	Biomass and pigments production in photosynthetic bacteria wastewater treatment: Effects of light sources. Bioresource Technology, 2015, 179, 505-509.	4.8	61
76	Degradation properties of protein and carbohydrate during sludge anaerobic digestion. Bioresource Technology, 2015, 192, 126-130.	4.8	149
77	Simultaneous biological nitrogen and phosphorus removal with a sequencing batch reactorâ€“biofilm system. International Biodeterioration and Biodegradation, 2015, 103, 221-226.	1.9	49
78	Efficiency comparison for treatment of amantadine pharmaceutical wastewater by Fenton, ultrasonic, and Fenton/ultrasonic processes. Environmental Earth Sciences, 2015, 73, 4979-4987.	1.3	20
79	Phosphate Adsorption onto Granular-Acid-Activated-Neutralized Red Mud: Parameter Optimization, Kinetics, Isotherms, and Mechanism Analysis. Water, Air, and Soil Pollution, 2015, 226, 1.	1.1	17
80	Comparative study of high-pressure homogenization and alkaline-heat pretreatments for enhancing enzymatic hydrolysis and biogas production of grass clipping. International Biodeterioration and Biodegradation, 2015, 104, 477-481.	1.9	23
81	Environmental evaluation of the application of compost sewage sludge to landscaping as soil amendments: a field experiment on the grassland soils in Beijing. Desalination and Water Treatment, 2015, 54, 1118-1126.	1.0	9
82	Feasibility of bioleaching combined with Fenton oxidation to improve sewage sludge dewaterability. Journal of Environmental Sciences, 2015, 28, 37-42.	3.2	25
83	Comparison of Response Surface Methodology and Artificial Neural Network in Optimization and Prediction of Acid Activation of Bauxsol for Phosphorus Adsorption. Water, Air, and Soil Pollution, 2014, 225, 1.	1.1	22
84	Thermal Effects. Water Environment Research, 2014, 86, 1955-1969.	1.3	0
85	Effect of alkaline addition on anaerobic sludge digestion with combined pretreatment of alkaline and high pressure homogenization. Bioresource Technology, 2014, 168, 167-172.	4.8	125
86	Biomass and carotenoid production in photosynthetic bacteria wastewater treatment: Effects of light intensity. Bioresource Technology, 2014, 171, 330-335.	4.8	99
87	Anaerobic digestion of corn stovers for methane production in a novel bionic reactor. Bioresource Technology, 2014, 166, 606-609.	4.8	12
88	Enhancement of cell production in photosynthetic bacteria wastewater treatment by low-strength ultrasound. Bioresource Technology, 2014, 161, 451-454.	4.8	29
89	Humic Acid Removal from Water with Polyaluminum Coagulants: Effect of Sulfate on Aluminum Polymerization. Journal of Environmental Engineering, ASCE, 2012, 138, 293-298.	0.7	24
90	Enhancement of anaerobic sludge digestion by high-pressure homogenization. Bioresource Technology, 2012, 118, 496-501.	4.8	98

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91	Enhancement of sludge gravitational thickening with weak ultrasound. Frontiers of Environmental Science and Engineering, 2012, 6, 753-760.	3.3	5
92	Pilot study of low-temperature low-turbidity reservoir water treatment using dual-media filtration with micro-flocculation. , 2011, , .		0
93	FACILE SYNTHESIS OF HUMIC ACID-COATED IRON OXIDE NANOPARTICLES AND THEIR APPLICATIONS IN WASTEWATER TREATMENT. Functional Materials Letters, 2011, 04, 373-376.	0.7	12
94	BAF-SCAD for advanced wastewater nitrogen removal. , 2011, , .		0
95	Sewage sludge bioleaching by indigenous sulfur-oxidizing bacteria: Effects of ratio of substrate dosage to solid content. Bioresource Technology, 2009, 100, 1394-1398.	4.8	58
96	Ultrasonic treatment of biological sludge: Floc disintegration, cell lysis and inactivation. Bioresource Technology, 2007, 98, 207-210.	4.8	244
97	Ultrasonic enhancement of industrial sludge settling ability and dewatering ability. Tsinghua Science and Technology, 2006, 11, 374-378.	4.1	11
98	Influence of some additives to aluminium species distribution in aluminium coagulants. Chemosphere, 2004, 57, 1489-1494.	4.2	34