

# Yun Zhou

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

1,408  
citations

279798

23  
h-index

377865

34  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1245  
citing authors

#	ARTICLE	IF	CITATIONS
1	The distribution of phosphorus and its transformations during batch growth of <i>Synechocystis</i> . <i>Water Research</i> , 2017, 122, 355-362.	11.3	67
2	Understanding key constituents and feature of the biopolymer in activated sludge responsible for binding heavy metals. <i>Chemical Engineering Journal</i> , 2016, 304, 527-532.	12.7	60
3	Reductive precipitation of sulfate and soluble Fe(III) by <i>Desulfovibrio vulgaris</i> : Electron donor regulates intracellular electron flow and nano-FeS crystallization. <i>Water Research</i> , 2017, 119, 91-101.	11.3	60
4	Enhancing biodegradation of C16-alkyl quaternary ammonium compounds using an oxygen-based membrane biofilm reactor. <i>Water Research</i> , 2017, 123, 825-833.	11.3	57
5	Effects of short-time aerobic digestion on extracellular polymeric substances and sludge features of waste activated sludge. <i>Chemical Engineering Journal</i> , 2016, 299, 177-183.	12.7	56
6	Insight into the influences of pH value on Pb(II) removal by the biopolymer extracted from activated sludge. <i>Chemical Engineering Journal</i> , 2017, 308, 1098-1104.	12.7	54
7	New insight into adsorption characteristics and mechanisms of the biosorbent from waste activated sludge for heavy metals. <i>Journal of Environmental Sciences</i> , 2016, 45, 248-256.	6.1	49
8	Greywater treatment using an oxygen-based membrane biofilm reactor: Formation of dynamic multifunctional biofilm for organics and nitrogen removal. <i>Chemical Engineering Journal</i> , 2020, 386, 123989.	12.7	48
9	Apelin induces vascular smooth muscle cells migration via a PI3K/Akt/FoxO3a/MMP-2 pathway. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 69, 173-182.	2.8	44
10	Overexpression of C1q/Tumor Necrosis Factor-Related Protein-3 Promotes Phosphate-Induced Vascular Smooth Muscle Cell Calcification Both In Vivo and In Vitro. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1002-1010.	2.4	40
11	RNA-based spatial community analysis revealed intra-reactor variation and expanded collection of direct interspecies electron transfer microorganisms in anaerobic digestion. <i>Bioresource Technology</i> , 2020, 298, 122534.	9.6	39
12	Different micro-aeration rates facilitate production of different end-products from source-diverted blackwater. <i>Water Research</i> , 2020, 177, 115783.	11.3	37
13	Handover Management in Enhanced MIH Framework for Heterogeneous Wireless Networks Environment. <i>Wireless Personal Communications</i> , 2010, 52, 615-636.	2.7	36
14	Anaerobically digested blackwater treatment by simultaneous denitrification and anammox processes: Feeding loading affects reactor performance and microbial community succession. <i>Chemosphere</i> , 2020, 241, 125101.	8.2	35
15	Dechlorination of 2,4-dichlorophenol in a hydrogen-based membrane palladium-film reactor: Performance, mechanisms, and model development. <i>Water Research</i> , 2021, 188, 116465.	11.3	33
16	Synergistic Integration of C12-C16 Cationic Surfactants for Flocculation and Lipid Extraction from <i>Chlorella</i> Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 752-757.	6.7	31
17	Direct solid-state evidence of H <sub>2</sub> -induced partial U(VI) reduction concomitant with adsorption by extracellular polymeric substances (EPS). <i>Biotechnology and Bioengineering</i> , 2018, 115, 1685-1693.	3.3	31
18	Promoting waste activated sludge reduction by linear alkylbenzene sulfonates: Surfactant dose control extracellular polymeric substances solubilization and microbial community succession. <i>Journal of Hazardous Materials</i> , 2019, 374, 74-82.	12.4	30

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19	Enhanced performance of short-time aerobic digestion for waste activated sludge under the presence of cocoamidopropyl betaine. <i>Chemical Engineering Journal</i> , 2017, 320, 494-500.	12.7	28
20	Enhancement mechanisms of short-time aerobic digestion for waste activated sludge in the presence of cocoamidopropyl betaine. <i>Scientific Reports</i> , 2017, 7, 13491.	3.3	27
21	Editing sterol side chain reductase 2 gene ( <i>StSSR2</i> ) via CRISPR/Cas9 reduces the total steroidal glycoalkaloids in potato. <i>International Journal of Transgender Health</i> , 2021, 14, 401-413.	2.3	27
22	Glutathione Activates Type III Secretion System Through Vfr in <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 164.	3.9	26
23	Copper (II) adsorption by the extracellular polymeric substance extracted from waste activated sludge after short-time aerobic digestion. <i>Environmental Science and Pollution Research</i> , 2014, 21, 2132-2140.	5.3	25
24	Treatment of grey water (GW) with high linear alkylbenzene sulfonates (LAS) content and carbon/nitrogen (C/N) ratio in an oxygen-based membrane biofilm reactor (O2-MBfR). <i>Chemosphere</i> , 2020, 258, 127363.	8.2	25
25	Using flow cytometry to evaluate thermal extraction of EPS from <i>Synechocystis</i> sp. PCC 6803. <i>Algal Research</i> , 2016, 20, 276-281.	4.6	24
26	Adsorption characterizations of biosorbent extracted from waste activated sludge for Pb(II) and Zn(II). <i>Desalination and Water Treatment</i> , 2016, 57, 9343-9353.	1.0	24
27	Co-removal of 2,4-dichlorophenol and nitrate using a palladized biofilm: Denitrification-promoted microbial mineralization following catalytic dechlorination. <i>Journal of Hazardous Materials</i> , 2022, 422, 126916.	12.4	24
28	Associated Adsorption Characteristics of Pb(II) and Zn(II) by a Novel Biosorbent Extracted from Waste-Activated Sludge. <i>Journal of Environmental Engineering, ASCE</i> , 2016, 142, .	1.4	23
29	How myristyltrimethylammonium bromide enhances biomass harvesting and pigments extraction from <i>Synechocystis</i> sp. PCC 6803. <i>Water Research</i> , 2017, 126, 189-196.	11.3	23
30	Cell disruption by cationic surfactants affects bioproduct recovery from <i>Synechocystis</i> sp. PCC 6803. <i>Algal Research</i> , 2018, 34, 250-255.	4.6	21
31	Calcium phosphate granules formation: Key to high rate of mesophilic UASB treatment of toilet wastewater. <i>Science of the Total Environment</i> , 2021, 773, 144972.	8.0	21
32	A kinetic model for 2,4-dichlorophenol adsorption and hydrodechlorination over a palladized biofilm. <i>Water Research</i> , 2022, 214, 118201.	11.3	19
33	Promoting <i>Synechocystis</i> sp. PCC 6803 Harvesting by Cationic Surfactants: Alkyl-Chain Length and Dose Control for the Release of Extracellular Polymeric Substances and Biomass Aggregation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2127-2133.	6.7	18
34	The influent COD/N ratio controlled the linear alkylbenzene sulfonate biodegradation and extracellular polymeric substances accumulation in an oxygen-based membrane biofilm reactor. <i>Journal of Hazardous Materials</i> , 2022, 422, 126862.	12.4	18
35	Three-dimension oxygen gradient induced low energy input for grey water treatment in an oxygen-based membrane biofilm reactor. <i>Environmental Research</i> , 2020, 191, 110124.	7.5	17
36	Response of antibiotic resistance genes and microbial niches to dissolved oxygen in an oxygen-based membrane biofilm reactor during greywater treatment. <i>Science of the Total Environment</i> , 2022, 833, 155062.	8.0	17

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37	Uptake of phosphate by <i>Synechocystis</i> sp. PCC 6803 in dark conditions: Removal driving force and modeling. <i>Chemosphere</i> , 2019, 218, 147-156.	8.2	16
38	Estimating and Interpreting Fine-Scale Gridded Population Using Random Forest Regression and Multisource Data. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 369.	2.9	16
39	Interactions between metal ions and the biopolymer in activated sludge: quantification and effects of system pH value. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	6.0	15
40	Removal kinetics of linear alkylbenzene sulfonate in a batch-operated oxygen based membrane biofilm reactor treating greywater: Quantitative differentiation of adsorption and biodegradation. <i>Science of the Total Environment</i> , 2022, 806, 150523.	8.0	15
41	Lumen air pressure (LAP) affecting greywater treatment in an oxygen-based membrane biofilm reactor (O <sub>2</sub> -MBfR). <i>Chemosphere</i> , 2021, 270, 129541.	8.2	14
42	Cometabolism accelerated simultaneous amoxidation and organics mineralization in an oxygen-based membrane biofilm reactor treating greywater under low dissolved oxygen conditions. <i>Science of the Total Environment</i> , 2021, 789, 147898.	8.0	13
43	Simultaneously enhanced biopolymers production and sludge dewaterability of waste activated sludge by synergetic integration process of short-time aerobic digestion with cocoamidopropyl betaine and calcium oxide. <i>Chemosphere</i> , 2018, 213, 541-550.	8.2	12
44	An Enhanced Media Independent Handover Framework for Heterogeneous Networks. <i>IEEE Vehicular Technology Conference</i> , 2008, , .	0.4	11
45	pH dependent of the waste activated sludge reduction by short-time aerobic digestion (STAD) process. <i>Science of the Total Environment</i> , 2019, 649, 1307-1313.	8.0	11
46	Single reactor nitrification-denitrification for high strength digested biosolid thickening lagoon supernatant treatment. <i>Biochemical Engineering Journal</i> , 2020, 160, 107630.	3.6	10
47	Quantification of heterotrophic bacteria during the growth of <i>Synechocystis</i> sp. PCC 6803 using fluorescence activated cell sorting and microscopy. <i>Algal Research</i> , 2018, 30, 94-100.	4.6	9
48	Dynamic battery loss evaluation and its application for optimal online windâ€¦storage integrated scheduling. <i>IET Renewable Power Generation</i> , 2020, 14, 3079-3087.	3.1	8
49	Genomic characterisation of clinical <i>Pseudomonas aeruginosa</i> isolate PAG5 with a multidrug-resistant megaplasmid from China. <i>Journal of Global Antimicrobial Resistance</i> , 2020, 21, 130-131.	2.2	7
50	Phosphate depletion controls lipid content and accumulation of heterotrophic bacteria during growth of <i>Synechocystis</i> sp. PCC 6803. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5007-5014.	3.6	6
51	Assessment and optimization of the oxygen based membrane biofilm reactor as a novel technology for source-diverted greywater treatment. <i>Science of the Total Environment</i> , 2022, 818, 151763.	8.0	6
52	Effective N <sub>2</sub> O emission control during the nitrification/denitrification treatment of ammonia rich wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107234.	6.7	6
53	Cocoamidopropyl Betaine Dosage Dependence of Short-Time Aerobic Digestion for Waste-Activated Sludge Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 877-884.	6.7	4
54	Optimal energy management of residential battery storage under uncertainty. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e12713.	1.9	4

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55	Key role of soluble microbial products in waste activated sludge reduction by synergetic combination of cocoamidopropyl betaine and alkalinity in the short-time aerobic digestion system. Journal of Hazardous Materials, 2021, 408, 124930.	12.4	4
56	Cloud-data envelopment analysis method used for assessment of restoration building block schemes. CSEE Journal of Power and Energy Systems, 2015, 1, 43-52.	1.1	3
57	Municipal wastewater treatment using a membrane aerated biofilm reactor. Journal of Environmental Engineering and Science, 2022, 17, 99-107.	0.8	3
58	Warm-start piecewise linear approximation-based solution for load pick-up problem in electrical distribution system. IET Smart Grid, 2020, 3, 385-393.	2.2	1
59	Coordinated Planning of PEV Fast charging Network with Station-owned Photovoltaic Generation. , 2019, , .		0