You-Peng Chen

List of Publications by Year
in descending order

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92	2,757	186265	206112
papers	citations	28 h-index	48 g-index

98	98	98	2707
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient decontamination of organic pollutants under high salinity conditions by a nonradical peroxymonosulfate activation system. Water Research, 2021, 191, 116799.	11.3	259
2	Composition of EPS fractions from suspended sludge and biofilm and their roles in microbial cell aggregation. Chemosphere, 2014, 117, 59-65.	8.2	165
3	Occurrence, fate and ecotoxicological assessment of pharmaceutically active compounds in wastewater and sludge from wastewater treatment plants in Chongqing, the Three Gorges Reservoir Area. Science of the Total Environment, 2014, 470-471, 618-630.	8.0	151
4	Functional groups characteristics of EPS in biofilm growing on different carriers. Chemosphere, 2013, 92, 633-638.	8.2	139
5	Effect of microbial inoculation on physicochemical properties and bacterial community structure of citrus peel composting. Bioresource Technology, 2019, 291, 121843.	9.6	127
6	Occurrence and fate of pharmaceutically active compounds in the largest municipal wastewater treatment plant in Southwest China: Mass balance analysis and consumption back-calculated model. Chemosphere, 2014, 99, 160-170.	8.2	92
7	Microbial communities, extracellular proteomics and polysaccharides: A comparative investigation on biofilm and suspended sludge. Bioresource Technology, 2015, 190, 21-28.	9.6	76
8	Thermodynamics of binding interactions between extracellular polymeric substances and heavy metals by isothermal titration microcalorimetry. Bioresource Technology, 2017, 232, 354-363.	9.6	74
9	Effect of high salinity in wastewater on surface properties of anammox granular sludge. Chemosphere, 2018, 210, 366-375.	8.2	69
10	Net-Zero-Energy Model for Sustainable Wastewater Treatment. Environmental Science & Technology, 2017, 51, 1017-1023.	10.0	64
11	Surface plasmon resonance for water pollutant detection and water process analysis. TrAC - Trends in Analytical Chemistry, 2016, 85, 153-165.	11.4	62
12	Adsorption behavior of tightly bound extracellular polymeric substances on model organic surfaces under different pH and cations with surface plasmon resonance. Water Research, 2014, 57, 31-39.	11.3	56
13	Underlying Promotion Mechanism of High Concentration of Silver Nanoparticles on Anammox Process. ACS Nano, 2019, 13, 14500-14510.	14.6	56
14	Composition and aggregation of extracellular polymeric substances (EPS) in hyperhaline and municipal wastewater treatment plants. Scientific Reports, 2016, 6, 26721.	3.3	53
15	Sludge reduction based on microbial metabolism for sustainable wastewater treatment. Bioresource Technology, 2020, 297, 122506.	9.6	48
16	Spatiotemporal distribution and risk assessment of organotins in the surface water of the Three Gorges Reservoir Region, China. Chemosphere, 2017, 171, 405-414.	8.2	47
17	New insights into filamentous sludge bulking: The potential role of extracellular polymeric substances in sludge bulking in the activated sludge process. Chemosphere, 2020, 248, 126012.	8.2	43
18	The branched chains and branching degree of exopolysaccharides affecting the stability of anammox granular sludge. Water Research, 2020, 178, 115818.	11.3	43

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19	A new approach for estimating aerobicâ€“anaerobic biofilm structure in wastewater treatment via dissolved oxygen microdistribution. Chemical Engineering Journal, 2014, 255, 171-177.	12.7	39
20	Imaging the Microprocesses in Biofilm Matrices. Trends in Biotechnology, 2019, 37, 214-226.	9.3	39
21	Microbial attachment and adsorptionâ€“desorption kinetic of tightly bound extracellular polymeric substances on model organic surfaces. Chemical Engineering Journal, 2015, 279, 516-521.	12.7	37
22	Underlying mechanisms of ANAMMOX bacteria adaptation to salinity stress. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 573-585.	3.0	37
23	Extracellular polymeric substances dependence of surface interactions of Bacillus subtilis with Cd2+ and Pb2+: An investigation combined with surface plasmon resonance and infrared spectra. Colloids and Surfaces B: Biointerfaces, 2017, 154, 357-364.	5.0	36
24	The logistic growth of duckweed (Lemna minor) and kinetics of ammonium uptake. Environmental Technology (United Kingdom), 2014, 35, 562-567.	2.2	34
25	Insight into the role of exopolysaccharide in determining the structural stability of aerobic granular sludge. Journal of Environmental Management, 2021, 298, 113521.	7.8	34
26	Recycling of orange waste for single cell protein production and the synergistic and antagonistic effects on production quality. Journal of Cleaner Production, 2019, 213, 384-392.	9.3	33
27	New insight into filamentous sludge bulking: Potential role of AHL-mediated quorum sensing in deteriorating sludge floc stability and structure. Water Research, 2022, 212, 118096.	11.3	33
28	A Novel Bio-carrier Fabricated Using 3D Printing Technique for Wastewater Treatment. Scientific Reports, 2015, 5, 12400.	3.3	31
29	The correlations and spatial characteristics of microbiome and silage quality by reusing of citrus waste in a family-scale bunker silo. Journal of Cleaner Production, 2019, 226, 407-418.	9.3	27
30	Importance of exopolysaccharide branched chains in determining the aggregation ability of anammox sludge. Science of the Total Environment, 2020, 734, 139470.	8.0	27
31	Optimization of recovery and utilization pathway of chemical energy from wastewater pollutants by a net-zero energy wastewater treatment model. Renewable and Sustainable Energy Reviews, 2020, 133, 110160.	16.4	26
32	New insight into filamentous sludge bulking during wastewater treatment: Surface characteristics and thermodynamics. Science of the Total Environment, 2020, 712, 135795.	8.0	25
33	Start-Up of a Combined Anaerobic/Partial Nitritation/ANAMMOX Process for High-Salt Mustard Wastewater Treatment. Applied Biochemistry and Biotechnology, 2015, 175, 119-134.	2.9	23
34	N 2 O micro-profiles in biofilm from a one-stage autotrophic nitrogen removal system by microelectrode. Chemosphere, 2017, 175, 482-489.	8.2	23
35	Protein corona between nanoparticles and bacterial proteins in activated sludge: Characterization and effect on nanoparticle aggregation. Bioresource Technology, 2018, 250, 10-16.	9.6	22
36	Nitrogen removal performance and characteristics of gel beads immobilized anammox bacteria under different PVA:SA ratios. Water Environment Research, 2021, 93, 1627-1639.	2.7	21

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37	Influence of Free Ammonia on Completely Autotrophic Nitrogen Removal over Nitrite (CANON) Process. Applied Biochemistry and Biotechnology, 2012, 167, 694-704.	2.9	20
38	Cellular analysis and detection using surface plasmon resonance imaging. TrAC - Trends in Analytical Chemistry, 2018, 103, 102-109.	11.4	20
39	Start-up of Completely Autotrophic Nitrogen Removal Over Nitrite Enhanced by Hydrophilic-Modified Carbon Fiber. Applied Biochemistry and Biotechnology, 2012, 166, 866-877.	2.9	18
40	Occurrence of organotin compounds in river sediments under the dynamic water level conditions in the Three Gorges Reservoir Area, China. Environmental Science and Pollution Research, 2015, 22, 8375-8385.	5.3	18
41	Enhanced nitrogen and phosphorus removal by an advanced simultaneous sludge reduction, inorganic solids separation, phosphorus recovery, and enhanced nutrient removal wastewater treatment process. Bioresource Technology, 2015, 183, 181-187.	9.6	18
42	Effect of increase in salinity on ANAMMOXâ€“UASB reactor stability. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10	2.2	18
43	In situ characterizations for EPS-involved microprocesses in biological wastewater treatment systems. Critical Reviews in Environmental Science and Technology, 2019, 49, 917-946.	12.8	18
44	A self-assembled nanocompartment in anammox bacteria for resisting intracelluar hydroxylamine stress. Science of the Total Environment, 2020, 717, 137030.	8.0	18
45	Investigation of microbial community structure in an advanced activated sludge side-stream reactor process with alkaline treatment. International Biodeterioration and Biodegradation, 2015, 104, 356-362.	3.9	17
46	New insight into the effect of short-term exposure to polystyrene nanoparticles on activated sludge performance. Journal of Water Process Engineering, 2020, 38, 101559.	5.6	17
47	Understanding the mechanism in aggregation ability between aerobic and anammox granular sludge from the perspective of exopolysaccharides. Journal of Water Process Engineering, 2020, 38, 101629.	5.6	17
48	Development of an in situ dissolved oxygen measurement system and calculation of its effective diffusion coefficient in a biofilm. Analytical Methods, 2012, 4, 2242.	2.7	16
49	Effect of inorganic carbon on the completely autotrophic nitrogen removal over nitrite (CANON) process in a sequencing batch biofilm reactor. Environmental Technology (United Kingdom), 2012, 33, 2611-2617.	2.2	16
50	New insight into sludge reduction induced by different substrate allocation strategy between oxygen and nitrate/nitrite as terminal electron acceptor. Bioresource Technology, 2018, 257, 7-16.	9.6	16
51	Extraction and Characterization of Extracellular Polymeric Substances in Biofilm and Sludge via Completely Autotrophic Nitrogen Removal Over Nitrite System. Applied Biochemistry and Biotechnology, 2013, 169, 526-538.	2.9	15
52	Phosphorus deficiency leads to the loosening of activated sludge: The role of exopolysaccharides in aggregation. Chemosphere, 2022, 290, 133385.	8.2	15
53	A full-view management method based on artificial neural networks for energy and material-savings in wastewater treatment plants. Environmental Research, 2022, 211, 113054.	7.5	15
54	Directly Determining Nitrate under Wide pH Range Condition Using a Cu-Deposited Ti Electrode. Journal of the Electrochemical Society, 2013, 160, H715-H719.	2.9	14

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55	Bacterially self-assembled encapsulin nanocompartment for removing silver from water. Water Research, 2021, 191, 116800.	11.3	14
56	A new filamentous bulking control strategy: The role of N-acyl homoserine lactone (AHL)-mediated quorum sensing in filamentous bacteria proliferation within activated sludge. Chemical Engineering Journal, 2022, 428, 132097.	12.7	14
57	Insight into the structure and metabolic function of iron-rich nanoparticles in anammox bacteria. Science of the Total Environment, 2022, 806, 150879.	8.0	14
58	Development of a Pt modified microelectrode aimed for the monitoring of ammonium in solution. International Journal of Environmental Analytical Chemistry, 2017, 97, 85-98.	3.3	13
59	A new method to measure and model dynamic oxygen microdistributions in moving biofilms. Environmental Pollution, 2017, 229, 199-209.	7.5	13
60	Performance of an anaerobic membrane bioreactor in which granular sludge and dynamic filtration are integrated. Biofouling, 2017, 33, 36-44.	2.2	13
61	Effects of ZnO nanoparticles on aerobic denitrifying bacteria Enterobacter cloacae strain HNR. Science of the Total Environment, 2020, 725, 138284.	8.0	13
62	Effects of long-term exposure to low-concentration PS-NPs on anammox granular sludge: Resistance and inhibition depend on PS-NP accumulation. Journal of Cleaner Production, 2022, 365, 132902.	9.3	13
63	Deep Insights into the Roles of Iron in the Structure and Function of the Anammox Granular Sludge System. ACS Sustainable Chemistry and Engineering, 2022, 10, 7896-7906.	6.7	11
64	Adaptation mechanism of aerobic denitrifier Enterobacter cloacae strain HNR to short-term ZnO nanoparticle stresses. Environmental Research, 2021, 197, 111178.	7.5	10
65	Dynamic Dispersal of Surface Layer Biofilm Induced by Nanosized TiO 2 Based on Surface Plasmon Resonance and Waveguide. Applied and Environmental Microbiology, 2018, 84, .	3.1	9
66	Imaging the oxygen wave with a single bioluminescent bacterium. Chemical Science, 2021, 12, 12400-12406.	7.4	9
67	Potential role of nanobubbles in dynamically modulating the structure and stability of anammox granular sludge within biological nitrogen removal process. Science of the Total Environment, 2021, 784, 147110.	8.0	9
68	Geographic distribution of net-zero energy wastewater treatment in China. Renewable and Sustainable Energy Reviews, 2021, 150, 111462.	16.4	9
69	The GHG mitigation opportunity of sludge management in China. Environmental Research, 2022, 212, 113284.	7.5	9
70	Estimation of oxygen effective diffusion coefficient in a non-steady-state biofilm based on response time. Environmental Science and Pollution Research, 2018, 25, 9797-9805.	5.3	8
71	Fate and Occurrence of Pharmaceutically Active Organic Compounds during Typical Pharmaceutical Wastewater Treatment. Journal of Chemistry, 2019, 2019, 1-12.	1.9	8
72	Influence of nitrogen-poor wastewater on activated sludge aggregation and settling: Sequential responses of extracellular proteins and exopolysaccharides. Journal of Cleaner Production, 2022, 359, 132160.	9.3	8

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73	Cyanophycin Granule Polypeptide: a Neglected High Value-Added Biopolymer, Synthesized in Activated Sludge on a Large Scale. Applied and Environmental Microbiology, 2022, 88, .	3.1	8
74	Evaluating the effects of micro-zones of granular sludge on one-stage partial nitritationâ€“anammox nitrogen removal. Bioprocess and Biosystems Engineering, 2020, 43, 1037-1049.	3.4	7
75	Encapsulins from Ca. Brocadia fulgida: An effective tool to enhance the tolerance of engineered bacteria (pET-28a-cEnc) to Zn2+. Journal of Hazardous Materials, 2022, 435, 128954.	12.4	7
76	Occurrence of organotins in the aquatic environment during an operating cycle of the Three Gorges Reservoir, China. Environmental Science and Pollution Research, 2018, 25, 1731-1741.	5.3	6
77	Identification of ceftazidime interaction with bacteria in wastewater treatment by Raman spectroscopic mapping. RSC Advances, 2019, 9, 32744-32752.	3.6	6
78	Quantitative three-dimensional nondestructive imaging of whole anaerobic ammonium-oxidizing bacteria. Journal of Synchrotron Radiation, 2020, 27, 753-761.	2.4	6
79	A Pt Nanoparticle Electrode for Nitrite Determination in Solution. Journal of the Electrochemical Society, 2014, 161, H220-H224.	2.9	5
80	SPR for water pollutant detection and water process analysis. Comprehensive Analytical Chemistry, 2021, , 145-183.	1.3	5
81	Estimation of relative oxygen metabolic activity microdistribution in biofilms based on the catastrophe point phenomenon during oxygen-infusion processes. Analytical Methods, 2017, 9, 5293-5300.	2.7	4
82	Treatment of mustard tuber wastewater (MTWW) using a pilot-scale packed cage rotating biological contactor system: process modeling and optimization. Environmental Science and Pollution Research, 2021, 28, 32057-32065.	5.3	4
83	Quantitative proteomics and phosphoproteomics elucidate the molecular mechanism of nanostructured TiO2-stimulated biofilm formation. Journal of Hazardous Materials, 2022, 432, 128709.	12.4	4
84	Influence of filtration velocity on DON variation in BAF for micropolluted surface water treatment. Environmental Science and Pollution Research, 2016, 23, 23415-23421.	5.3	3
85	Enhanced excess sludge hydrolysis and acidification in an activated sludge side-stream reactor process with single-stage sludge alkaline treatment: a pilot scale study. Environmental Science and Pollution Research, 2016, 23, 22761-22770.	5.3	3
86	Quartz crystal microbalance-based method to study adsorption of endocrine disruptor compounds on zeolite. Environmental Technology (United Kingdom), 2021, 42, 3025-3035.	2.2	3
87	Significant N2O emission from a high rate granular reactor for completely autotrophic nitrogen removal over nitrite. Journal of Environmental Management, 2020, 266, 110586.	7.8	3
88	The environmental impacts of citrus residue management in China: A case study in The Three Gorges Reservoir Region. Waste Management, 2021, 133, 80-88.	7.4	3
89	Packed cage rotating biological contactor for mustard tuber wastewater treatment: Performance and microbiome along the axial direction. Journal of Water Process Engineering, 2021, 44, 102384.	5.6	3
90	Thermodynamics of the interaction between antibiotics and extracellular polymeric substances within activated sludge. Environmental Technology (United Kingdom), 2019, 40, 1525-1533.	2.2	2

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91	SPR imaging for cellular analysis and detection. Comprehensive Analytical Chemistry, 2021, 95, 185-236.	1.3	1
92	A new pattern of the partial nitrification and Anammox immobilized gel beads: core-shell embedded carrier. Environmental Research, 2022, 214, 113816.	7.5	0