

# Peng Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,669  
citations

377584

21  
h-index

325983

40  
g-index

44  
all docs

44  
docs citations

44  
times ranked

2025  
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper ion and G-quadruplex-mediated fluorescent sensor for highly selective detection of bleomycin in actual samples. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 267, 120572.	2.0	3
2	In-situ covalent bonding of carbon dots on two-dimensional tungsten disulfide interfaces for effective monitoring and remediation of chlortetracycline residue. <i>Chemical Engineering Journal</i> , 2022, 432, 134315.	6.6	13
3	A persistent luminescent nanobeacon for practical detection of lead ions via avoiding background interference. <i>Analytica Chimica Acta</i> , 2022, 1198, 339555.	2.6	9
4	Quantitative proteomics and phosphoproteomics elucidate the molecular mechanism of nanostructured TiO <sub>2</sub> -stimulated biofilm formation. <i>Journal of Hazardous Materials</i> , 2022, 432, 128709.	6.5	4
5	Proximity sequence-dependent spectral conversion of silver nanoclusters and construction of ratiometric nanoprobe. <i>Chemical Engineering Journal</i> , 2022, 441, 136001.	6.6	12
6	Metagenomics and metatranscriptomics analyses of antibiotic synthesis in activated sludge. <i>Environmental Research</i> , 2022, 213, 113741.	3.7	4
7	Cyanophycin Granule Polypeptide: a Neglected High Value-Added Biopolymer, Synthesized in Activated Sludge on a Large Scale. <i>Applied and Environmental Microbiology</i> , 2022, 88, .	1.4	8
8	Applications of carbon dots in environmental pollution control: A review. <i>Chemical Engineering Journal</i> , 2021, 406, 126848.	6.6	238
9	Nanoparticles-EPS corona increases the accumulation of heavy metals and biotoxicity of nanoparticles. <i>Journal of Hazardous Materials</i> , 2021, 409, 124526.	6.5	28
10	Adsorption-improved MoSe <sub>2</sub> nanosheet by heteroatom doping and its application for simultaneous detection and removal of mercury (II). <i>Journal of Hazardous Materials</i> , 2021, 413, 125470.	6.5	56
11	Fluorescent and colorimetric dual-mode detection of tetracycline in wastewater based on heteroatoms-doped reduced state carbon dots. <i>Environmental Pollution</i> , 2021, 283, 117109.	3.7	49
12	Graphene oxide-regulated low-background aptasensor for the detection of tetracycline. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 260, 119898.	2.0	11
13	Highly sensitive B, N co-doped carbon dots for fluorescent and colorimetric dual-mode detection of mercury ions in wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106882.	3.3	16
14	SPR for water pollutant detection and water process analysis. <i>Comprehensive Analytical Chemistry</i> , 2021, , 145-183.	0.7	5
15	Low-temperature rapid synthesis of high-stable carbon dots and its application in biochemical sensing. <i>Dyes and Pigments</i> , 2020, 175, 108184.	2.0	29
16	Graphene biosensors for bacterial and viral pathogens. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112471.	5.3	113
17	Acceleration of biofilm formation in start-up of sequencing batch biofilm reactor using carriers immobilized with <i>Pseudomonas stutzeri</i> strain XL-2. <i>Bioresource Technology</i> , 2020, 314, 123736.	4.8	16
18	Beyond native deoxyribonucleic acid, templating fluorescent nanomaterials for bioanalytical applications: A review. <i>Analytica Chimica Acta</i> , 2020, 1105, 11-27.	2.6	23

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19	DNA/RNA chimera-templated copper nanoclusters for label-free detection of reverse transcription-associated ribonuclease H. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128072.	4.0	14
20	Imaging the Microprocesses in Biofilm Matrices. <i>Trends in Biotechnology</i> , 2019, 37, 214-226.	4.9	39
21	<i>In situ</i> synthesis of fluorescent copper nanoclusters for rapid detection of ascorbic acid in biological samples. <i>Analytical Methods</i> , 2019, 11, 4580-4585.	1.3	19
22	Recent progress in copper nanocluster-based fluorescent probing: a review. <i>Mikrochimica Acta</i> , 2019, 186, 670.	2.5	92
23	Amplified colorimetric detection of tetracycline based on an enzyme-linked aptamer assay with multivalent HRP-mimicking DNAzyme. <i>Analyst</i> , 2019, 144, 1948-1954.	1.7	38
24	AgNP combined with quorum sensing inhibitor increased the antibiofilm effect on <i>Pseudomonas aeruginosa</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 6195-6204.	1.7	7
25	High specific MNase assay for rapid identification of <i>Staphylococcus aureus</i> using AT-rich dsDNA substrate. <i>Talanta</i> , 2019, 204, 693-699.	2.9	7
26	Detection of micrococcal nuclease for identifying <i>Staphylococcus aureus</i> based on DNA templated fluorescent copper nanoclusters. <i>Mikrochimica Acta</i> , 2019, 186, 248.	2.5	34
27	Synthesis of fluorescent tungsten disulfide by nitrogen atom doping and its application for mercury( $\text{Hg}^{2+}$ ) detection. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4096-4101.	2.7	11
28	<i>In situ</i> characterizations for EPS-involved microprocesses in biological wastewater treatment systems. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 917-946.	6.6	18
29	Identification and function of extracellular protein in wastewater treatment using proteomic approaches: A minireview. <i>Journal of Environmental Management</i> , 2019, 233, 24-29.	3.8	14
30	Dynamic Dispersal of Surface Layer Biofilm Induced by Nanosized $\text{TiO}_2$ Based on Surface Plasmon Resonance and Waveguide. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	9
31	Protein corona between nanoparticles and bacterial proteins in activated sludge: Characterization and effect on nanoparticle aggregation. <i>Bioresource Technology</i> , 2018, 250, 10-16.	4.8	22
32	Label-Free Fluorescent Detection of $\text{Hg}^{2+}$ in Aqueous Media Based on N-Doped $\text{MoS}_2$ Nanosheets. <i>Nano</i> , 2018, 13, 1850057.	0.5	3
33	Extracellular polymeric substances dependence of surface interactions of <i>Bacillus subtilis</i> with $\text{Cd}^{2+}$ and $\text{Pb}^{2+}$ : An investigation combined with surface plasmon resonance and infrared spectra. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 154, 357-364.	2.5	36
34	Identification and analysis of Triphenyltin chloride with surface enhanced Raman scattering spectroscopy. <i>Chemosphere</i> , 2016, 161, 96-103.	4.2	18
35	Surface plasmon resonance for water pollutant detection and water process analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 85, 153-165.	5.8	62
36	Composition and aggregation of extracellular polymeric substances (EPS) in hyperhaline and municipal wastewater treatment plants. <i>Scientific Reports</i> , 2016, 6, 26721.	1.6	53

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37	Characterization of soluble microbial products in a drinking water biological aerated filter. <i>Environmental Science and Pollution Research</i> , 2016, 23, 8721-8730.	2.7	5
38	Microbial attachment and adsorption-desorption kinetic of tightly bound extracellular polymeric substances on model organic surfaces. <i>Chemical Engineering Journal</i> , 2015, 279, 516-521.	6.6	37
39	Extracellular protein analysis of activated sludge and their functions in wastewater treatment plant by shotgun proteomics. <i>Scientific Reports</i> , 2015, 5, 12041.	1.6	43
40	Microbial communities, extracellular proteomics and polysaccharides: A comparative investigation on biofilm and suspended sludge. <i>Bioresource Technology</i> , 2015, 190, 21-28.	4.8	76
41	Adsorption behavior of tightly bound extracellular polymeric substances on model organic surfaces under different pH and cations with surface plasmon resonance. <i>Water Research</i> , 2014, 57, 31-39.	5.3	56
42	Composition of EPS fractions from suspended sludge and biofilm and their roles in microbial cell aggregation. <i>Chemosphere</i> , 2014, 117, 59-65.	4.2	165
43	Extraction and Characterization of Extracellular Polymeric Substances in Biofilm and Sludge via Completely Autotrophic Nitrogen Removal Over Nitrite System. <i>Applied Biochemistry and Biotechnology</i> , 2013, 169, 526-538.	1.4	15
44	Functional groups characteristics of EPS in biofilm growing on different carriers. <i>Chemosphere</i> , 2013, 92, 633-638.	4.2	139