

# Zhi-gang Yu

## List of Publications by Year in Descending Order

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**Version:** 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87 papers	2,750 citations	26 h-index	51 g-index
89 ext. papers	3,585 ext. citations	6.8 avg, IF	5.43 L-index

#	Paper	IF	Citations
87	Removal of chloride from water and wastewater: Removal mechanisms and recent trends.. <i>Science of the Total Environment</i> , <b>2022</b> , 821, 153174	10.2	2
86	The combination of aerobic and microaerobic promote hydrolysis and acidification of rice straw and pig manure: Balance of insoluble and soluble substrate.. <i>Bioresource Technology</i> , <b>2022</b> , 350, 126880	11	1
85	Non-caloric artificial sweeteners exhibit antimicrobial activity against bacteria and promote bacterial evolution of antibiotic tolerance.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 433, 128840	12.8	1
84	Development of microalgae-bacteria symbiosis system for the enhanced treatment of biogas slurry.. <i>Bioresource Technology</i> , <b>2022</b> , 127187	11	2
83	Combat antimicrobial resistance emergence and biofilm formation through nanoscale zero-valent iron particles. <i>Chemical Engineering Journal</i> , <b>2022</b> , 444, 136569	14.7	0
82	Effects of microalgae-bacteria inoculation ratio on biogas slurry treatment and microorganism interactions in the symbiosis system. <i>Journal of Cleaner Production</i> , <b>2022</b> , 362, 132271	10.3	1
81	Coastal Upwelling Combined With the River Plume Regulates Hypoxia in the Changjiang Estuary and Adjacent Inner East China Sea Shelf. <i>Journal of Geophysical Research: Oceans</i> , <b>2021</b> , 126, e2021JC017740	23.40	2
80	Chlorine disinfection facilitates natural transformation through ROS-mediated oxidative stress. <i>ISME Journal</i> , <b>2021</b> , 15, 2969-2985	11.9	23
79	Nutrient-rich submarine groundwater discharge fuels the largest green tide in the world. <i>Science of the Total Environment</i> , <b>2021</b> , 770, 144845	10.2	10
78	Synergistic effect of sulfidated nano zerovalent iron and persulfate on inactivating antibiotic resistant bacteria and antibiotic resistance genes. <i>Water Research</i> , <b>2021</b> , 198, 117141	12.5	20
77	Contribution of the offshore detached Changjiang (Yangtze River) Diluted Water to the formation of hypoxia in summer. <i>Science of the Total Environment</i> , <b>2021</b> , 764, 142838	10.2	6
76	Oxygen decline in a temperate marginal sea: Contribution of warming and eutrophication. <i>Science of the Total Environment</i> , <b>2021</b> , 757, 143227	10.2	1
75	Efficient photocatalytic destruction of recalcitrant micropollutants using graphitic carbon nitride under simulated sunlight irradiation. <i>Environmental Science and Ecotechnology</i> , <b>2021</b> , 5, 100079	7.4	20
74	Nonnutritive sweeteners can promote the dissemination of antibiotic resistance through conjugative gene transfer. <i>ISME Journal</i> , <b>2021</b> , 15, 2117-2130	11.9	41
73	Artificial sweeteners stimulate horizontal transfer of extracellular antibiotic resistance genes through natural transformation. <i>ISME Journal</i> , <b>2021</b> ,	11.9	8
72	Effects of river damming and delta erosion on organic carbon burial in the Changjiang Estuary and adjacent East China Sea inner shelf. <i>Science of the Total Environment</i> , <b>2021</b> , 793, 148610	10.2	4
71	Size Distribution and Phosphate Removal Capacity of Nano Zero-Valent Iron (nZVI): Influence of pH and Ionic Strength. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2939	3	5

70	Intra- and inter-seasonal variations in the hydrological characteristics and nutrient conditions in the southwestern Yellow Sea during spring to summer. <i>Marine Pollution Bulletin</i> , <b>2020</b> , 156, 111139	6.7	2
69	Does submarine groundwater discharge contribute to summer hypoxia in the Changjiang (Yangtze) River Estuary?. <i>Science of the Total Environment</i> , <b>2020</b> , 719, 137450	10.2	23
68	Sedimentary phosphorus cycling and budget in the seasonally hypoxic coastal area of Changjiang Estuary. <i>Science of the Total Environment</i> , <b>2020</b> , 713, 136389	10.2	8
67	Role of surface roughness in the algal short-term cell adhesion and long-term biofilm cultivation under dynamic flow condition. <i>Algal Research</i> , <b>2020</b> , 46, 101787	5	12
66	Seasonal Physical Fronts and Associated Biogeochemical-Ecological Effects off the Jiangsu Shoal in the Western Yellow Sea, China. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2020JC016304	3.3	2
65	Pine sawdust as algal biofilm biocarrier for wastewater treatment and algae-based byproducts production. <i>Journal of Cleaner Production</i> , <b>2020</b> , 256, 120449	10.3	16
64	Spatially Explicit Inventory of Sources of Nitrogen Inputs to the Yellow Sea, East China Sea, and South China Sea for the Period 1970-2010. <i>Earth's Future</i> , <b>2020</b> , 8, e2020EF001516	7.9	10
63	Bacterial and Archaeal Communities in Sediments from the Adjacent Waters of Rushan Bay (China) Revealed by Illumina Sequencing. <i>Geomicrobiology Journal</i> , <b>2020</b> , 37, 86-100	2.5	4
62	Effects of geochemical conditions, surface modification, and arsenic (As) loadings on As release from As-loaded nano zero-valent iron in simulated groundwater. <i>Environmental Science: Water Research and Technology</i> , <b>2019</b> , 5, 28-38	4.2	14
61	Shifts in the anammox bacterial community structure and abundance in sediments from the Changjiang Estuary and its adjacent area. <i>Systematic and Applied Microbiology</i> , <b>2019</b> , 42, 383-396	4.2	11
60	Uptake and toxicity studies of magnetic TiO <sub>2</sub> -Based nanophotocatalyst in <i>Arabidopsis thaliana</i> . <i>Chemosphere</i> , <b>2019</b> , 224, 658-667	8.4	5
59	Degradation potential and diversity of oil-degrading bacteria isolated from the sediments of the Jiaozhou Bay, China. <i>Acta Oceanologica Sinica</i> , <b>2019</b> , 38, 54-64	1	1
58	Lignocellulosic residue as bio-carrier for algal biofilm growth: Effects of carrier physicochemical properties and toxicity on algal biomass production and composition. <i>Bioresource Technology</i> , <b>2019</b> , 293, 122091	11	14
57	Deoxygenation and Its Controls in a Semienclosed Shelf Ecosystem, Northern Yellow Sea. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 9004-9019	3.3	6
56	Radium isotopes-suspended sediment relationships in a muddy river. <i>Chemosphere</i> , <b>2019</b> , 214, 250-258	8.4	6
55	Long-Term Nutrient Variations in the Bohai Sea Over the Past 40 Years. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 703-722	3.3	35
54	Spatiotemporal variations in the summer hypoxia in the Bohai Sea (China) and controlling mechanisms. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 138, 125-134	6.7	26
53	Transport of the arsenic (As)-loaded nano zero-valent iron in groundwater-saturated sand columns: Roles of surface modification and As loading. <i>Chemosphere</i> , <b>2019</b> , 216, 428-436	8.4	26

52	Implications of eutrophication for biogeochemical processes in the Three Gorges Reservoir, China. <i>Regional Environmental Change</i> , <b>2019</b> , 19, 55-63	4.3	11
51	Nepartak Typhoon Influenced Bottom Sediments From the Yangtze River Estuary and Adjacent East China Sea-Foraminiferal Evidence. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 1049-1063	3.6	4
50	Vertical-algal-biofilm enhanced raceway pond for cost-effective wastewater treatment and value-added products production. <i>Water Research</i> , <b>2018</b> , 139, 144-157	12.5	50
49	Hydro-biogeochemical processes and their implications for <i>Ulva prolifera</i> blooms and expansion in the world's largest green tide occurrence region (Yellow Sea, China). <i>Science of the Total Environment</i> , <b>2018</b> , 645, 257-266	10.2	24
48	A New Perspective for Assessing Water Transport and Associated Retention Effects in a Large Reservoir. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 9642-9650	4.9	4
47	Enhancing phosphate adsorption capacity of SDS-based magnetite by surface modification of citric acid. <i>Applied Surface Science</i> , <b>2017</b> , 403, 413-425	6.7	43
46	Cadmium-containing quantum dots: properties, applications, and toxicity. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 2713-2733	5.7	77
45	Amorphous MnO <sub>2</sub> Modified Biochar Derived from Aerobically Composted Swine Manure for Adsorption of Pb(II) and Cd(II). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 5049-5058	8.3	256
44	Nitrogen transport, transformation, and retention in the Three Gorges Reservoir: A mass balance approach. <i>Limnology and Oceanography</i> , <b>2017</b> , 62, 2323-2337	4.8	26
43	Performance of magnetic zirconium-iron oxide nanoparticle in the removal of phosphate from aqueous solution. <i>Applied Surface Science</i> , <b>2017</b> , 396, 1783-1792	6.7	71
42	Impacts of human activities on nutrient transport in the Yellow River: The role of the Water-Sediment Regulation Scheme. <i>Science of the Total Environment</i> , <b>2017</b> , 592, 161-170	10.2	41
41	Mechanisms leading to the frequent occurrences of hypoxia and a preliminary analysis of the associated acidification off the Changjiang estuary in summer. <i>Science China Earth Sciences</i> , <b>2017</b> , 60, 360-381	4.6	21
40	Bioaccumulation and toxicity of CdSe/ZnS quantum dots in <i>Phanerochaete chrysosporium</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 159, 303-311	6	18
39	Cultivation of algal biofilm using different lignocellulosic materials as carriers. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 115	7.8	42
38	Offshore detachment of the Changjiang River plume and its ecological impacts in summer. <i>Journal of Oceanography</i> , <b>2017</b> , 73, 277-294	1.9	8
37	Photocatalytic decomposition of Congo red under visible light irradiation using MgZnCr-TiO layered double hydroxide. <i>Chemosphere</i> , <b>2017</b> , 168, 80-90	8.4	45
36	Radium isotopes assess water mixing processes and its application in the Zhujiang River estuary. <i>Chinese Journal of Oceanology and Limnology</i> , <b>2017</b> , 35, 1108-1116		
35	Phase transformation of crystalline iron oxides and their adsorption abilities for Pb and Cd. <i>Chemical Engineering Journal</i> , <b>2016</b> , 284, 247-259	14.7	115

34	Utilization of LDH-based materials as potential adsorbents and photocatalysts for the decontamination of dyes wastewater: a review. <i>RSC Advances</i> , <b>2016</b> , 6, 79415-79436	3.7	107
33	Metal-based quantum dots: synthesis, surface modification, transport and fate in aquatic environments and toxicity to microorganisms. <i>RSC Advances</i> , <b>2016</b> , 6, 78595-78610	3.7	80
32	Phosphorus speciation, transformation, and preservation in the coastal area of Rushan Bay. <i>Science of the Total Environment</i> , <b>2016</b> , 565, 258-270	10.2	16
31	Community Composition and Abundance of Ammonia-Oxidizing Archaea in Sediments from the Changjiang Estuary and its Adjacent Area in the East China Sea. <i>Geomicrobiology Journal</i> , <b>2016</b> , 33, 416-425	2.5	5
30	Variations of Hydrodynamics and Submarine Groundwater Discharge in the Yellow River Estuary Under the Influence of the Water-Sediment Regulation Scheme. <i>Estuaries and Coasts</i> , <b>2016</b> , 39, 333-343	2.8	11
29	Behavior of suspended particles in the Changjiang Estuary: Size distribution and trace metal contamination. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 103, 159-167	6.7	45
28	Molecular characterization of sulfate-reducing bacteria community in surface sediments from the adjacent area of Changjiang Estuary. <i>Journal of Ocean University of China</i> , <b>2016</b> , 15, 107-116	1	8
27	Active capping technology: a new environmental remediation of contaminated sediment. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 4370-86	5.1	38
26	Treatment of landfill leachate using immobilized <i>Phanerochaete chrysosporium</i> loaded with nitrogen-doped TiO <sub>2</sub> nanoparticles. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 301, 106-18	12.8	100
25	Diversity, Abundance, and Niche Differentiation of Ammonia-Oxidizing Prokaryotes in Mud Deposits of the Eastern China Marginal Seas. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 137	5.7	29
24	Particle-size distribution and phosphorus forms as a function of hydrological forcing in the Yellow River. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 3385-98	5.1	32
23	Distribution and budget of dissolved and biogenic silica in the Bohai Sea and Yellow Sea. <i>Biogeochemistry</i> , <b>2016</b> , 130, 85-101	3.8	20
22	Detrital phosphorus as a proxy of flooding events in the Changjiang River Basin. <i>Science of the Total Environment</i> , <b>2015</b> , 517, 22-30	10.2	21
21	Characterization of Oil by Micro-Solid-Phase Extraction and Gas Chromatography-Mass Spectrometry. <i>Analytical Letters</i> , <b>2015</b> , 48, 2493-2506	2.2	1
20	Historical reconstruction of organic carbon inputs to the East China Sea inner shelf: Implications for anthropogenic activities and regional climate variability. <i>Holocene</i> , <b>2015</b> , 25, 1869-1881	2.6	20
19	Facile synthesis of alumina-decorated multi-walled carbon nanotubes for simultaneous adsorption of cadmium ion and trichloroethylene. <i>Chemical Engineering Journal</i> , <b>2015</b> , 273, 101-110	14.7	102
18	Quaternary ammonium compounds (QACs): a review on occurrence, fate and toxicity in the environment. <i>Science of the Total Environment</i> , <b>2015</b> , 518-519, 352-62	10.2	263
17	Seasonal and spatial distribution of ammonia-oxidizing microorganism communities in surface sediments from the East China Sea. <i>Acta Oceanologica Sinica</i> , <b>2015</b> , 34, 83-92	1	10

16	A multiproxy analysis of sedimentary organic carbon in the Changjiang Estuary and adjacent shelf. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2015</b> , 120, 1407-1429	3.7	59
15	Characterization of the Particle Size Fraction associated with Heavy Metals in Suspended Sediments of the Yellow River. <i>International Journal of Environmental Research and Public Health</i> , <b>2015</b> , 12, 6725-44	4.6	67
14	Impact of the water-sediment regulation and a rainstorm on nutrient transport in the Huanghe River. <i>Chinese Journal of Oceanology and Limnology</i> , <b>2014</b> , 32, 140-147		1
13	Transformation and source of nutrients in the Changjiang Estuary. <i>Science China Chemistry</i> , <b>2014</b> , 57, 779-790	7.9	5
12	HPLC pigment profiles of 31 harmful algal bloom species isolated from the coastal sea areas of China. <i>Journal of Ocean University of China</i> , <b>2014</b> , 13, 941-950	1	5
11	Effects of sediment geochemical properties on heavy metal bioavailability. <i>Environment International</i> , <b>2014</b> , 73, 270-81	12.9	365
10	Molecular characterisation, evolution and expression of hypoxia-inducible factor in <i>Aurelia</i> sp.1. <i>PLoS ONE</i> , <b>2014</b> , 9, e100057	3.7	9
9	Silica retention in the Three Gorges Reservoir. <i>Biogeochemistry</i> , <b>2013</b> , 112, 209-228	3.8	37
8	Cloning, characterization, and expression of Cytochrome b (Cytb) a key mitochondrial gene from <i>Prorocentrum donghaiense</i> . <i>Chinese Journal of Oceanology and Limnology</i> , <b>2012</b> , 30, 424-432		
7	Application of rRNA probes and fluorescence in situ hybridization for rapid detection of the toxic dinoflagellate <i>Alexandrium minutum</i> . <i>Chinese Journal of Oceanology and Limnology</i> , <b>2012</b> , 30, 256-263		11
6	Classification of marine diatoms using pigment ratio suites. <i>Chinese Journal of Oceanology and Limnology</i> , <b>2011</b> , 29, 1075-1085		6
5	Orthogonal design for optimization of pigment extraction from surface sediments of the Changjiang River Estuary. <i>Acta Oceanologica Sinica</i> , <b>2011</b> , 30, 33-42	1	6
4	Effects of irradiance on pigment signatures of harmful algae during growth process. <i>Acta Oceanologica Sinica</i> , <b>2011</b> , 30, 46-57	1	11
3	Phytoplankton diversity in the East China Sea and Yellow Sea measured by PCR-DGGE and its relationships with environmental factors. <i>Chinese Journal of Oceanology and Limnology</i> , <b>2010</b> , 28, 315-322		11
2	A simple laboratory-based radon calibration system. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2010</b> , 283, 457-463	1.5	11
1	Major ion geochemistry and nutrient behaviour in the mixing zone of the Changjiang (Yangtze) River and its tributaries in the Three Gorges Reservoir. <i>Hydrological Processes</i> , <b>2010</b> , 24, n/a-n/a	3.3	14