Zhi-gang Yu

List of Publications by Citations

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	Effects of sediment geochemical properties on heavy metal bioavailability. *Environment International*, **2014**, 73, 270-81	12.9	365
86	Quaternary ammonium compounds (QACs): a review on occurrence, fate and toxicity in the environment. *Science of the Total Environment*, **2015**, 518-519, 352-62	10.2	263
85	Amorphous MnO2 Modified Biochar Derived from Aerobically Composted Swine Manure for Adsorption of Pb(II) and Cd(II). *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 5049-5058	8.3	256
84	Phase transformation of crystalline iron oxides and their adsorption abilities for Pb and Cd. *Chemical Engineering Journal*, **2016**, 284, 247-259	14.7	115
83	Utilization of LDH-based materials as potential adsorbents and photocatalysts for the decontamination of dyes wastewater: a review. *RSC Advances*, **2016**, 6, 79415-79436	3.7	107
82	Facile synthesis of alumina-decorated multi-walled carbon nanotubes for simultaneous adsorption of cadmium ion and trichloroethylene. *Chemical Engineering Journal*, **2015**, 273, 101-110	14.7	102
81	Treatment of landfill leachate using immobilized Phanerochaete chrysosporium loaded with nitrogen-doped TiO□nanoparticles. *Journal of Hazardous Materials*, **2016**, 301, 106-18	12.8	100
80	Metal-based quantum dots: synthesis, surface modification, transport and fate in aquatic environments and toxicity to microorganisms. *RSC Advances*, **2016**, 6, 78595-78610	3.7	80
79	Cadmium-containing quantum dots: properties, applications, and toxicity. *Applied Microbiology and Biotechnology*, **2017**, 101, 2713-2733	5.7	77
78	Performance of magnetic zirconium-iron oxide nanoparticle in the removal of phosphate from aqueous solution. *Applied Surface Science*, **2017**, 396, 1783-1792	6.7	71
77	Characterization of the Particle Size Fraction associated with Heavy Metals in Suspended Sediments of the Yellow River. *International Journal of Environmental Research and Public Health*, **2015**, 12, 6725-44	4.6	67
76	A multiproxy analysis of sedimentary organic carbon in the Changjiang Estuary and adjacent shelf. *Journal of Geophysical Research G: Biogeosciences*, **2015**, 120, 1407-1429	3.7	59
75	Vertical-algal-biofilm enhanced raceway pond for cost-effective wastewater treatment and value-added products production. *Water Research*, **2018**, 139, 144-157	12.5	50
74	Behavior of suspended particles in the Changjiang Estuary: Size distribution and trace metal contamination. *Marine Pollution Bulletin*, **2016**, 103, 159-167	6.7	45
73	Photocatalytic decomposition of Congo red under visible light irradiation using MgZnCr-TiO layered double hydroxide. *Chemosphere*, **2017**, 168, 80-90	8.4	45
72	Enhancing phosphate adsorption capacity of SDS-based magnetite by surface modification of citric acid. *Applied Surface Science*, **2017**, 403, 413-425	6.7	43
71	Cultivation of algal biofilm using different lignocellulosic materials as carriers. *Biotechnology for Biofuels*, **2017**, 10, 115	7.8	42

70	Impacts of human activities on nutrient transport in the Yellow River: The role of the Water-Sediment Regulation Scheme. *Science of the Total Environment*, **2017**, 592, 161-170	10.2	41
69	Nonnutritive sweeteners can promote the dissemination of antibiotic resistance through conjugative gene transfer. *ISME Journal*, **2021**, 15, 2117-2130	11.9	41
68	Active capping technology: a new environmental remediation of contaminated sediment. *Environmental Science and Pollution Research*, **2016**, 23, 4370-86	5.1	38
67	Silica retention in the Three Gorges Reservoir. *Biogeochemistry*, **2013**, 112, 209-228	3.8	37
66	Long-Term Nutrient Variations in the Bohai Sea Over the Past 40 Years. *Journal of Geophysical Research: Oceans*, **2019**, 124, 703-722	3.3	35
65	Particle-size distribution and phosphorus forms as a function of hydrological forcing in the Yellow River. *Environmental Science and Pollution Research*, **2016**, 23, 3385-98	5.1	32
64	Diversity, Abundance, and Niche Differentiation of Ammonia-Oxidizing Prokaryotes in Mud Deposits of the Eastern China Marginal Seas. *Frontiers in Microbiology*, **2016**, 7, 137	5.7	29
63	Nitrogen transport, transformation, and retention in the Three Gorges Reservoir: A mass balance approach. *Limnology and Oceanography*, **2017**, 62, 2323-2337	4.8	26
62	Spatiotemporal variations in the summer hypoxia in the Bohai Sea (China) and controlling mechanisms. *Marine Pollution Bulletin*, **2019**, 138, 125-134	6.7	26
61	Transport of the arsenic (As)-loaded nano zero-valent iron in groundwater-saturated sand columns: Roles of surface modification and As loading. *Chemosphere*, **2019**, 216, 428-436	8.4	26
60	Hydro-biogeochemical processes and their implications for Ulva prolifera blooms and expansion in the world's largest green tide occurrence region (Yellow Sea, China). *Science of the Total Environment*, **2018**, 645, 257-266	10.2	24
59	Does submarine groundwater discharge contribute to summer hypoxia in the Changjiang (Yangtze) River Estuary?. *Science of the Total Environment*, **2020**, 719, 137450	10.2	23
58	Chlorine disinfection facilitates natural transformation through ROS-mediated oxidative stress. *ISME Journal*, **2021**, 15, 2969-2985	11.9	23
57	Mechanisms leading to the frequent occurrences of hypoxia and a preliminary analysis of the associated acidification off the Changjiang estuary in summer. *Science China Earth Sciences*, **2017**, 60, 360-381	4.6	21
56	Detrital phosphorus as a proxy of flooding events in the Changjiang River Basin. *Science of the Total Environment*, **2015**, 517, 22-30	10.2	21
55	Historical reconstruction of organic carbon inputs to the East China Sea inner shelf: Implications for anthropogenic activities and regional climate variability. *Holocene*, **2015**, 25, 1869-1881	2.6	20
54	Synergistic effect of sulfidated nano zerovalent iron and persulfate on inactivating antibiotic resistant bacteria and antibiotic resistance genes. *Water Research*, **2021**, 198, 117141	12.5	20
53	Distribution and budget of dissolved and biogenic silica in the Bohai Sea and Yellow Sea. *Biogeochemistry*, **2016**, 130, 85-101	3.8	20

52	Efficient photocatalytic destruction of recalcitrant micropollutants using graphitic carbon nitride under simulated sunlight irradiation. *Environmental Science and Ecotechnology*, **2021**, 5, 100079	7.4	20
51	Bioaccumulation and toxicity of CdSe/ZnS quantum dots in Phanerochaete chrysosporium. *Colloids and Surfaces B: Biointerfaces*, **2017**, 159, 303-311	6	18
50	Phosphorus speciation, transformation, and preservation in the coastal area of Rushan Bay. *Science of the Total Environment*, **2016**, 565, 258-270	10.2	16
49	Pine sawdust as algal biofilm biocarrier for wastewater treatment and algae-based byproducts production. *Journal of Cleaner Production*, **2020**, 256, 120449	10.3	16
48	Effects of geochemical conditions, surface modification, and arsenic (As) loadings on As release from As-loaded nano zero-valent iron in simulated groundwater. *Environmental Science: Water Research and Technology*, **2019**, 5, 28-38	4.2	14
47	Lignocellulosic residue as bio-carrier for algal biofilm growth: Effects of carrier physicochemical proprieties and toxicity on algal biomass production and composition. *Bioresource Technology*, **2019** , 293, 122091	11	14
46	Major ion geochemistry and nutrient behaviour in the mixing zone of the Changjiang (Yangtze) River and its tributaries in the Three Gorges Reservoir. *Hydrological Processes*, **2010**, 24, n/a-n/a	3.3	14
45	Role of surface roughness in the algal short-term cell adhesion and long-term biofilm cultivation under dynamic flow condition. *Algal Research*, **2020**, 46, 101787	5	12
44	Shifts in the anammox bacterial community structure and abundance in sediments from the Changjiang Estuary and its adjacent area. *Systematic and Applied Microbiology*, **2019**, 42, 383-396	4.2	11
43	Variations of Hydrodynamics and Submarine Groundwater Discharge in the Yellow River Estuary Under the Influence of the Water-Sediment Regulation Scheme. *Estuaries and Coasts*, **2016**, 39, 333-343	2.8	11
42	Application of rRNA probes and fluorescence in situ hybridization for rapid detection of the toxic dinoflagellate Alexandrium minutum. *Chinese Journal of Oceanology and Limnology*, **2012**, 30, 256-263		11
41	Effects of irradiance on pigment signatures of harmful algae during growth process. *Acta Oceanologica Sinica*, **2011**, 30, 46-57	1	11
40	Phytoplankton diversity in the East China Sea and Yellow Sea measured by PCR-DGGE and its relationships with environmental factors. *Chinese Journal of Oceanology and Limnology*, **2010**, 28, 315-322		11
39	A simple laboratory-based radon calibration system. *Journal of Radioanalytical and Nuclear Chemistry*, **2010**, 283, 457-463	1.5	11
38	Implications of eutrophication for biogeochemical processes in the Three Gorges Reservoir, China. *Regional Environmental Change*, **2019**, 19, 55-63	4.3	11
37	Seasonal and spatial distribution of ammonia-oxidizing microorganism communities in surface sediments from the East China Sea. *Acta Oceanologica Sinica*, **2015**, 34, 83-92	1	10
36	Spatially Explicit Inventory of Sources of Nitrogen Inputs to the Yellow Sea, East China Sea, and South China Sea for the Period 1970–2010. *Earth's Future*, **2020**, 8, e2020EF001516	7.9	10
35	Nutrient-rich submarine groundwater discharge fuels the largest green tide in the world. *Science of the Total Environment*, **2021**, 770, 144845	10.2	10

34	Molecular characterisation, evolution and expression of hypoxia-inducible factor in Aurelia sp.1. *PLoS ONE*, **2014**, 9, e100057	3.7	9
33	Sedimentary phosphorus cycling and budget in the seasonally hypoxic coastal area of Changjiang Estuary. *Science of the Total Environment*, **2020**, 713, 136389	10.2	8
32	Molecular characterization of sulfate-reducing bacteria community in surface sediments from the adjacent area of Changjiang Estuary. *Journal of Ocean University of China*, **2016**, 15, 107-116	1	8
31	Offshore detachment of the Changjiang River plume and its ecological impacts in summer. *Journal of Oceanography*, **2017**, 73, 277-294	1.9	8
30	Artificial sweeteners stimulate horizontal transfer of extracellular antibiotic resistance genes through natural transformation. *ISME Journal*, **2021**,	11.9	8
29	Classification of marine diatoms using pigment ratio suites. *Chinese Journal of Oceanology and Limnology*, **2011**, 29, 1075-1085		6
28	Orthogonal design for optimization of pigment extraction from surface sediments of the Changjiang River Estuary. *Acta Oceanologica Sinica*, **2011**, 30, 33-42	1	6
27	Deoxygenation and Its Controls in a Semienclosed Shelf Ecosystem, Northern Yellow Sea. *Journal of Geophysical Research: Oceans*, **2019**, 124, 9004-9019	3.3	6
26	Radium isotopes-suspended sediment relationships in a muddy river. *Chemosphere*, **2019**, 214, 250-258	8.4	6
25	Contribution of the offshore detached Changjiang (Yangtze River) Diluted Water to the formation of hypoxia in summer. *Science of the Total Environment*, **2021**, 764, 142838	10.2	6
24	Uptake and toxicity studies of magnetic TiO-Based nanophotocatalyst in Arabidopsis thaliana. *Chemosphere*, **2019**, 224, 658-667	8.4	5
23	Size Distribution and Phosphate Removal Capacity of Nano Zero-Valent Iron (nZVI): Influence of pH and Ionic Strength. *Water (Switzerland)*, **2020**, 12, 2939	3	5
22	Community Composition and Abundance of Ammonia-Oxidizing Archaea in Sediments from the Changjiang Estuary and its Adjacent Area in the East China Sea. *Geomicrobiology Journal*, **2016**, 33, 416-425	2.5	5
21	Transformation and source of nutrients in the Changjiang Estuary. *Science China Chemistry*, **2014**, 57, 779-790	7.9	5
20	HPLC pigment profiles of 31 harmful algal bloom species isolated from the coastal sea areas of China. *Journal of Ocean University of China*, **2014**, 13, 941-950	1	5
19	Nepartak Typhoon Influenced Bottom Sediments From the Yangtze River Estuary and Adjacent East China Sea-Foraminiferal Evidence. *Geochemistry, Geophysics, Geosystems*, **2018**, 19, 1049-1063	3.6	4
18	Bacterial and Archaeal Communities in Sediments from the Adjacent Waters of Rushan Bay (China) Revealed by Illumina Sequencing. *Geomicrobiology Journal*, **2020**, 37, 86-100	2.5	4
17	A New Perspective for Assessing Water Transport and Associated Retention Effects in a Large Reservoir. *Geophysical Research Letters*, **2018**, 45, 9642-9650	4.9	4

16	Effects of river damming and delta erosion on organic carbon burial in the Changjiang Estuary and adjacent East China Sea inner shelf. *Science of the Total Environment*, **2021**, 793, 148610	10.2	4
15	Intra- and inter-seasonal variations in the hydrological characteristics and nutrient conditions in the southwestern Yellow Sea during spring to summer. *Marine Pollution Bulletin*, **2020**, 156, 111139	6.7	2
14	Removal of chloride from water and wastewater: Removal mechanisms and recent trends.. *Science of the Total Environment*, **2022**, 821, 153174	10.2	2
13	Coastal Upwelling Combined With the River Plume Regulates Hypoxia in the Changjiang Estuary and Adjacent Inner East China Sea Shelf. *Journal of Geophysical Research: Oceans*, **2021**, 126, e2021JC017140	3.3	2
12	Seasonal Physical Fronts and Associated Biogeochemical-Ecological Effects off the Jiangsu Shoal in the Western Yellow Sea, China. *Journal of Geophysical Research: Oceans*, **2020**, 125, e2020JC016304	3.3	2
11	Development of microalgae-bacteria symbiosis system for the enhanced treatment of biogas slurry.. *Bioresource Technology*, **2022**, 127187	11	2
10	Characterization of Oil by Micro-Solid-Phase Extraction and Gas Chromatography–Mass Spectrometry. *Analytical Letters*, **2015**, 48, 2493-2506	2.2	1
9	Degradation potential and diversity of oil-degrading bacteria isolated from the sediments of the Jiaozhou Bay, China. *Acta Oceanologica Sinica*, **2019**, 38, 54-64	1	1
8	Impact of the water-sediment regulation and a rainstorm on nutrient transport in the Huanghe River. *Chinese Journal of Oceanology and Limnology*, **2014**, 32, 140-147		1
7	Oxygen decline in a temperate marginal sea: Contribution of warming and eutrophication. *Science of the Total Environment*, **2021**, 757, 143227	10.2	1
6	The combination of aerobic and microaerobic promote hydrolysis and acidification of rice straw and pig manure: Balance of insoluble and soluble substrate.. *Bioresource Technology*, **2022**, 350, 126880	11	1
5	Non-caloric artificial sweeteners exhibit antimicrobial activity against bacteria and promote bacterial evolution of antibiotic tolerance.. *Journal of Hazardous Materials*, **2022**, 433, 128840	12.8	1
4	Effects of microalgae-bacteria inoculation ratio on biogas slurry treatment and microorganism interactions in the symbiosis system. *Journal of Cleaner Production*, **2022**, 362, 132271	10.3	1
3	Combat antimicrobial resistance emergence and biofilm formation through nanoscale zero-valent iron particles. *Chemical Engineering Journal*, **2022**, 444, 136569	14.7	0
2	Radium isotopes assess water mixing processes and its application in the Zhujiang River estuary. *Chinese Journal of Oceanology and Limnology*, **2017**, 35, 1108-1116		
1	Cloning, characterization, and expression of Cytochrome b (Cytb)□ key mitochondrial gene from Prorocentrum donghaiense. *Chinese Journal of Oceanology and Limnology*, **2012**, 30, 424-432		