

Yalei Zhang

List of Publications by Year in descending order

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107
papers

5,739
citations

66343

42
h-index

79698

73
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107
all docs

107
docs citations

107
times ranked

7210
citing authors

#	ARTICLE	IF	CITATIONS
1	Fe ₂ O ₃ -Pillared Rectorite as an Efficient and Stable Fenton-Like Heterogeneous Catalyst for Photodegradation of Organic Contaminants. <i>Environmental Science & Technology</i> , 2010, 44, 6384-6389.	10.0	284
2	Magnetic sulfide-modified nanoscale zerovalent iron (S-nZVI) for dissolved metal ion removal. <i>Water Research</i> , 2015, 74, 47-57.	11.3	267
3	Removal of phosphate from aqueous solution using nanoscale zerovalent iron (nZVI). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 457, 433-440.	4.7	178
4	Effect of inoculum sources on the anaerobic digestion of rice straw. <i>Bioresource Technology</i> , 2014, 158, 149-155.	9.6	178
5	Photocatalytic degradation of Bisphenol A (BPA) using immobilized TiO ₂ and UV illumination in a horizontal circulating bed photocatalytic reactor (HCBPR). <i>Journal of Hazardous Materials</i> , 2009, 169, 926-932.	12.4	176
6	Simultaneous removal of cadmium and nitrate in aqueous media by nanoscale zerovalent iron (nZVI) and Au doped nZVI particles. <i>Water Research</i> , 2014, 63, 102-111.	11.3	168
7	The effect of bacterial contamination on the heterotrophic cultivation of <i>Chlorella pyrenoidosa</i> in wastewater from the production of soybean products. <i>Water Research</i> , 2012, 46, 5509-5516.	11.3	149
8	High-yield reduction of carbon dioxide into formic acid by zero-valent metal/metal oxide redox cycles. <i>Energy and Environmental Science</i> , 2011, 4, 881.	30.8	138
9	A novel mixed-phase TiO ₂ /kaolinite composites and their photocatalytic activity for degradation of organic contaminants. <i>Chemical Engineering Journal</i> , 2011, 172, 936-943.	12.7	136
10	Synthesis and characterization of cotton-like Ca-Al composite as an adsorbent for fluoride removal. <i>Chemical Engineering Journal</i> , 2014, 250, 423-430.	12.7	135
11	Effect of Alkaline Catalysts on Hydrothermal Conversion of Glycerin into Lactic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 8920-8925.	3.7	132
12	Adsorption of Copper (II) onto activated carbons from sewage sludge by microwave-induced phosphoric acid and zinc chloride activation. <i>Desalination</i> , 2011, 278, 231-237.	8.2	131
13	A new insight on the core-shell structure of zerovalent iron nanoparticles and its application for Pb(II) sequestration. <i>Journal of Hazardous Materials</i> , 2013, 263, 685-693.	12.4	128
14	<i>Chlorella pyrenoidosa</i> cultivation using anaerobic digested starch processing wastewater in an airlift circulation photobioreactor. <i>Bioresource Technology</i> , 2014, 170, 538-548.	9.6	120
15	Nutrients removal and lipids production by <i>Chlorella pyrenoidosa</i> cultivation using anaerobic digested starch wastewater and alcohol wastewater. <i>Bioresource Technology</i> , 2015, 181, 54-61.	9.6	116
16	Performance and properties of nanoscale calcium peroxide for toluene removal. <i>Chemosphere</i> , 2013, 91, 717-723.	8.2	113
17	Photocatalytic degradation of organic contaminants by TiO ₂ /sepiolite composites prepared at low temperature. <i>Chemical Engineering Journal</i> , 2011, 173, 1-10.	12.7	112
18	Sequestration of Cd(II) with nanoscale zero-valent iron (nZVI): Characterization and test in a two-stage system. <i>Chemical Engineering Journal</i> , 2014, 244, 218-226.	12.7	107

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19	Effect of Ca(OH) ₂ pretreatment on extruded rice straw anaerobic digestion. <i>Bioresource Technology</i> , 2015, 196, 116-122.	9.6	105
20	Graphene-wrapped Bi ₂ O ₃ /CO ₃ core-shell structures with enhanced quantum efficiency profit from an ultrafast electron transfer process. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8273-8280.	10.3	96
21	Hierarchically structured $\text{Fe}_2\text{O}_3/\text{Bi}_2\text{WO}_6$ composite for photocatalytic degradation of organic contaminants under visible light irradiation. <i>RSC Advances</i> , 2013, 3, 2963.	3.6	92
22	Synthesis of ordered mesoporous iron manganese bimetal oxides for arsenic removal from aqueous solutions. <i>Microporous and Mesoporous Materials</i> , 2014, 200, 235-244.	4.4	91
23	The joint effects of sulfonamides and their potentiator on <i>Photobacterium phosphoreum</i> : Differences between the acute and chronic mixture toxicity mechanisms. <i>Chemosphere</i> , 2012, 86, 30-35.	8.2	86
24	Rapid Mineralization of Azo-Dye Wastewater by Microwave Synergistic Electro-Fenton Oxidation Process. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7457-7463.	3.1	84
25	Fabrication of bidirectionally doped $\text{Bi}_2\text{O}_3/\text{TiO}_2$ -NTs with enhanced photocatalysis under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2013, 258-259, 42-49.	12.4	80
26	Selective Chemical Conversion of Sugars in Aqueous Solutions without Alkali to Lactic Acid Over a Zn-Sn-Beta Lewis Acid-Base Catalyst. <i>Scientific Reports</i> , 2016, 6, 26713.	3.3	80
27	Degradation mechanism of alachlor during direct ozonation and O ₃ /H ₂ O ₂ advanced oxidation process. <i>Chemosphere</i> , 2010, 78, 517-526.	8.2	79
28	Sorption of malachite green on vinyl-modified mesoporous poly(acrylic acid)/SiO ₂ composite nanofiber membranes. <i>Microporous and Mesoporous Materials</i> , 2012, 149, 111-118.	4.4	75
29	Micro/nano-structured CaWO ₄ /Bi ₂ WO ₆ composite: synthesis, characterization and photocatalytic properties for degradation of organic contaminants. <i>Dalton Transactions</i> , 2012, 41, 12697.	3.3	71
30	Asparagus stem as a new lignocellulosic biomass feedstock for anaerobic digestion: Increasing hydrolysis rate, methane production and biodegradability by alkaline pretreatment. <i>Bioresource Technology</i> , 2014, 164, 78-85.	9.6	70
31	Dynamic membrane bioreactor for wastewater treatment: Operation, critical flux, and dynamic membrane structure. <i>Journal of Membrane Science</i> , 2014, 450, 265-271.	8.2	70
32	Nanocasted synthesis of magnetic mesoporous iron cerium bimetal oxides (MMIC) as an efficient heterogeneous Fenton-like catalyst for oxidation of arsenite. <i>Journal of Hazardous Materials</i> , 2015, 287, 225-233.	12.4	68
33	Strategic enhancement of algal biomass, nutrient uptake and lipid through statistical optimization of nutrient supplementation in coupling <i>Scenedesmus obliquus</i> -like microalgae cultivation and municipal wastewater treatment. <i>Bioresource Technology</i> , 2014, 171, 71-79.	9.6	57
34	Highly active Pd-In/mesoporous alumina catalyst for nitrate reduction. <i>Journal of Hazardous Materials</i> , 2015, 286, 425-431.	12.4	57
35	Cu(II)-Catalyzed Transformation of Benzylpenicillin Revisited: The Overlooked Oxidation. <i>Environmental Science & Technology</i> , 2015, 49, 4218-4225.	10.0	56
36	Performance of Fe^{2+} -methylanthalene degradation by dual oxidant of persulfate/calcium peroxide: Implication for ISCO. <i>Chemical Engineering Journal</i> , 2015, 279, 538-546.	12.7	55

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37	Catalytic conversion of NaHCO ₃ into formic acid in mild hydrothermal conditions for CO ₂ utilization. <i>Catalysis Today</i> , 2009, 148, 405-410.	4.4	52
38	Stable TiO ₂ /rectorite: Preparation, characterization and photocatalytic activity. <i>Applied Clay Science</i> , 2011, 51, 335-340.	5.2	51
39	Biosorption of clofibric acid and carbamazepine in aqueous solution by agricultural waste rice straw. <i>Journal of Environmental Sciences</i> , 2013, 25, 2384-2395.	6.1	49
40	Enhanced photocatalytic performances of ultrafine g-C ₃ N ₄ nanosheets obtained by gaseous stripping with wet nitrogen. <i>Applied Surface Science</i> , 2018, 427, 730-738.	6.1	47
41	The production of acetic acid from microalgae under hydrothermal conditions. <i>Applied Energy</i> , 2011, 88, 3444-3447.	10.1	46
42	Facile synthesis and photocatalytic property of bicrystalline TiO ₂ /rectorite composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 384, 137-144.	4.7	45
43	Adsorption, inhibition, and biotransformation of ciprofloxacin under aerobic conditions. <i>Bioresource Technology</i> , 2013, 144, 644-651.	9.6	45
44	Synergetic effects of bimetals in modified beta zeolite for lactic acid synthesis from biomass-derived carbohydrates. <i>RSC Advances</i> , 2018, 8, 8965-8975.	3.6	44
45	The alcohol-mediated reduction of CO ₂ and NaHCO ₃ into formate: a hydrogen transfer reduction of NaHCO ₃ with glycerine under alkaline hydrothermal conditions. <i>RSC Advances</i> , 2012, 2, 797-801.	3.6	43
46	Arsenate removal from aqueous solutions using magnetic mesoporous iron manganese bimetal oxides. <i>RSC Advances</i> , 2015, 5, 4058-4068.	3.6	42
47	Dewatering of <i>Chlorella pyrenoidosa</i> using diatomite dynamic membrane: Filtration performance, membrane fouling and cake behavior. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 458-466.	5.0	41
48	Electrosorptive photocatalytic degradation of highly concentrated p-nitroaniline with TiO ₂ nanorod-clusters/carbon aerogel electrode under visible light. <i>Separation and Purification Technology</i> , 2013, 104, 229-237.	7.9	40
49	Effects of nitrate on the treatment of lead contaminated groundwater by nanoscale zerovalent iron. <i>Journal of Hazardous Materials</i> , 2014, 280, 504-513.	12.4	39
50	Potential toxicity of sulfanilamide antibiotic: Binding of sulfamethazine to human serum albumin. <i>Science of the Total Environment</i> , 2012, 432, 269-274.	8.0	38
51	From NaHCO ₃ into formate and from isopropanol into acetone: Hydrogen-transfer reduction of NaHCO ₃ with isopropanol in high-temperature water. <i>Green Chemistry</i> , 2011, 13, 820.	9.0	37
52	Inhibitory effects and biotransformation potential of ciprofloxacin under anoxic/anaerobic conditions. <i>Bioresource Technology</i> , 2013, 150, 28-35.	9.6	37
53	Synthesis, characterization and visible-light photocatalytic activity of Bi ₂₄ Al ₂ O ₃₉ mesoporous hollow spheres. <i>RSC Advances</i> , 2013, 3, 19617.	3.6	37
54	Bio-enhanced powder-activated carbon dynamic membrane reactor for municipal wastewater treatment. <i>Journal of Membrane Science</i> , 2013, 433, 126-134.	8.2	37

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55	Removal of Sb(III) and Sb(V) from Aqueous Solutions Using nZVI. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	37
56	Application of Zero-Valent Iron Nanoparticles for the Removal of Aqueous Zinc Ions under Various Experimental Conditions. <i>PLoS ONE</i> , 2014, 9, e85686.	2.5	36
57	Modeling and prediction for the acute toxicity of pesticide mixtures to the freshwater luminescent bacterium <i>Vibrio qinghaiensis</i> sp.-Q67. <i>Journal of Environmental Sciences</i> , 2010, 22, 433-440.	6.1	33
58	Solvent isotope effect and mechanism for the production of hydrogen and lactic acid from glycerol under hydrothermal alkaline conditions. <i>Green Chemistry</i> , 2012, 14, 3285.	9.0	33
59	Influence of growth manner on nitrifying bacterial communities and nitrification kinetics in three lab-scale bioreactors. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 595-604.	3.0	30
60	Pb(II) removal from water using Fe-coated bamboo charcoal with the assistance of microwaves. <i>Journal of Environmental Sciences</i> , 2013, 25, 1044-1053.	6.1	30
61	Hydrophobicity-dependent QSARs to predict the toxicity of perfluorinated carboxylic acids and their mixtures. <i>Environmental Toxicology and Pharmacology</i> , 2011, 32, 259-265.	4.0	29
62	Analysis of the Metabolic Utilization of Carbon Sources and Potential Functional Diversity of the Bacterial Community in Lab-Scale Horizontal Subsurface-Flow Constructed Wetlands. <i>Journal of Environmental Quality</i> , 2011, 40, 1730-1736.	2.0	26
63	Fabrication of a Novel SnO ₂ Photonic Crystal Sensitized by CdS Quantum Dots and Its Enhanced Photocatalysis under Visible Light Irradiation. <i>Electrochimica Acta</i> , 2014, 121, 352-360.	5.2	26
64	Binding of Bezafibrate to Human Serum Albumin: Insight into the Non-Covalent Interaction of an Emerging Contaminant with Biomacromolecules. <i>Molecules</i> , 2012, 17, 6821-6831.	3.8	25
65	The Removal of Antimony by Novel NZVI-Zeolite: the Role of Iron Transformation. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	25
66	Quantification of Colloid Retention and Release by Straining and Energy Minima in Variably Saturated Porous Media. <i>Environmental Science & Technology</i> , 2013, 47, 130724151622003.	10.0	24
67	Degradation of Bezafibrate with UV/H ₂ O ₂ in Surface Water and Wastewater Treatment Plant Effluent. <i>Clean - Soil, Air, Water</i> , 2012, 40, 239-245.	1.1	23
68	Reaction Route Selection for Cellulose Hydrogenolysis into C ₂ /C ₃ Glycols by ZnO-Modified Ni-W/β ² -zeolite Catalysts. <i>Scientific Reports</i> , 2019, 9, 11938.	3.3	23
69	Assessment of sediment quality of Yangtze River estuary using zebrafish (<i>Danio rerio</i>) embryos. <i>Environmental Toxicology</i> , 2010, 25, 234-242.	4.0	21
70	Hydrogen-Transfer Reduction of Ketones into Corresponding Alcohols Using Formic Acid as a Hydrogen Donor without a Metal Catalyst in High-Temperature Water. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 6255-6259.	3.7	21
71	Binding of triclosan to human serum albumin: insight into the molecular toxicity of emerging contaminant. <i>Environmental Science and Pollution Research</i> , 2012, 19, 2528-2536.	5.3	21
72	Synergistic effects and kinetic evidence of a transition metal-tin modified Beta zeolite on conversion of <i>Miscanthus</i> to lactic acid. <i>Applied Catalysis A: General</i> , 2019, 583, 117126.	4.3	21

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73	The Feasibility Study of Cotton Pulp Wastewater Treatment with IC Anaerobic Reactor. <i>Procedia Environmental Sciences</i> , 2011, 11, 686-692.	1.4	20
74	Surface amino-functionalization of Sn-Beta zeolite catalyst for lactic acid production from glucose. <i>RSC Advances</i> , 2019, 9, 18989-18995.	3.6	20
75	Partitioning of Fluoroquinolones on Wastewater Sludge. <i>Clean - Soil, Air, Water</i> , 2013, 41, 820-827.	1.1	19
76	Efficient production of lactic acid from biomass-derived carbohydrates under synergistic effects of indium and tin in Sn-Beta zeolites. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5327-5338.	4.9	19
77	Green synthesis of ultrathin edge-activated foam-like carbon nitride nanosheets for enhanced photocatalytic performance under visible light irradiation. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1764-1775.	4.9	18
78	Adsorption of Rhodamine B from aqueous solution onto sepiolite modified by cetyltrimethylammonium bromide. <i>Desalination and Water Treatment</i> , 2012, 45, 112-119.	1.0	17
79	Simultaneous carbon and nutrient removal in an airlift loop reactor under a limited filamentous bulking state. <i>Bioresource Technology</i> , 2013, 130, 406-411.	9.6	17
80	Dewatering of <i>Chlorella pyrenoidosa</i> using a diatomite dynamic membrane: Characteristics of a long-term operation. <i>Journal of Membrane Science</i> , 2015, 492, 340-347.	8.2	17
81	Occurrence and Distribution of Synthetic Musks in Surface Sediments of Liangtan River, West China. <i>Environmental Engineering Science</i> , 2012, 29, 19-25.	1.6	16
82	Atomic charges of individual reactive chemicals in binary mixtures determine their joint effects: An example of cyanogenic toxicants and aldehydes. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 270-278.	4.3	15
83	The mechanism for production of abiogenic formate from CO ₂ and lactate from glycerine: uncatalyzed transfer hydrogenation of CO ₂ with glycerine under alkaline hydrothermal conditions. <i>RSC Advances</i> , 2014, 4, 15256-15263.	3.6	14
84	Evaluation of the performance of different membrane materials for microalgae cultivation on attached biofilm reactors. <i>RSC Advances</i> , 2022, 12, 1451-1459.	3.6	14
85	Conversion of Sucrose into Lactic Acid over Functionalized Sn-Beta Zeolite Catalyst by 3-Aminopropyltrimethoxysilane. <i>ACS Omega</i> , 2018, 3, 17430-17438.	3.5	13
86	Hydrogenolysis of Glucose into Propylene Glycol over Pt/SiO ₂ @Mg(OH) ₂ Catalyst. <i>ChemCatChem</i> , 2020, 12, 3447-3452.	3.7	13
87	Gravity filtration performances of the bio-diatomite dynamic membrane reactor for slightly polluted surface water purification. <i>Water Science and Technology</i> , 2012, 66, 1139-1146.	2.5	11
88	Nitrifying population dynamics in a redox stratified membrane biofilm reactor (RSMBR) for treating ammonium-rich wastewater. <i>Frontiers of Environmental Science and Engineering in China</i> , 2011, 5, 48-56.	0.8	10
89	Interactions of acidic pharmaceuticals with human serum albumin: insights into the molecular toxicity of emerging pollutants. <i>Amino Acids</i> , 2012, 43, 1419-1429.	2.7	10
90	Characterization of dissolved organic matter in a dynamic membrane bioreactor for wastewater treatment. <i>Science Bulletin</i> , 2013, 58, 1717-1724.	1.7	10

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91	Immobilization of selenite from aqueous solution by structural ferrous hydroxide complexes. RSC Advances, 2017, 7, 13398-13405.	3.6	10
92	Efficient catalytic conversion of microalgae residue solid waste into lactic acid over a Fe-Sn-Beta catalyst. Science of the Total Environment, 2021, 771, 144891.	8.0	10
93	Application of the Similarity Parameter (\hat{b}) to Prediction of the Joint Effects of Nonequotoxic Mixtures. Archives of Environmental Contamination and Toxicology, 2012, 62, 195-209.	4.1	8
94	A Kow -Based QSAR Model for Predicting Toxicity of Halogenated Benzenes to all Algae Regardless of Species. Bulletin of Environmental Contamination and Toxicology, 2011, 86, 565-570.	2.7	7
95	Effect of nitrate concentration on filamentous bulking under low level of dissolved oxygen in an airlift inner circular anoxic-aerobic incorporate reactor. Journal of Environmental Sciences, 2013, 25, 1736-1744.	6.1	7
96	Quantitative monitoring of inland water using remote sensing of the upper reaches of the Huangpu River, China. International Journal of Remote Sensing, 2010, 31, 2471-2492.	2.9	6
97	Reduction of hexavalent chromium with scrap iron in a fixed bed reactor. Frontiers of Environmental Science and Engineering, 2012, 6, 761-769.	6.0	6
98	Replication and inheritance of Nocardia plasmid pC1. FEMS Microbiology Letters, 2006, 261, 47-52.	1.8	5
99	Efficient Catalytic Conversion of Glucose into Lactic Acid over $Y\text{-}\hat{1}^2$ and $Yb\text{-}\hat{1}^2$ Zeolites. ACS Omega, 2022, 7, 25200-25209.	3.5	5
100	Spatial and seasonal distribution of synthetic musks in sewage treatment plants of Shanghai, China. Water Science and Technology, 2012, 66, 201-209.	2.5	4
101	Development of an analytical method for eight fluoroquinolones using solid-phase extraction and liquid chromatography with fluorescence detection. International Journal of Environmental Analytical Chemistry, 2010, 90, 1085-1098.	3.3	2
102	Highly Efficient, Ultra-Low Energy Consumption Process for Phenol Wastewater Treatment with Ultra-Low Carbon Emission. Clean - Soil, Air, Water, 2013, 41, 865-871.	1.1	1
103	The Application of Advanced Materials on the Water or Wastewater Treatment. Journal of Chemistry, 2015, 2015, 1-2.	1.9	1
104	Multi-spectral remote sensing based water quality monitoring for Lake Tai. , 2005, 6043, 196.		0
105	Characteristic and Metabolic pathways of 2,6-Di-tert-butylphenol degradation by Alcaligenes F-3-4. , 2011, , .		0
106	Phosphate removal mechanism in an airlift-loop reactor under limited filamentous bulking conditions. Desalination and Water Treatment, 2015, 56, 1299-1308.	1.0	0
107	Selective Conversion of Scenedesmus into Lactic Acid over Amine-Modified $Sn\text{-}\hat{1}^2$. ACS Omega, 2021, 6, 284-293.	3.5	0