Zehua Liu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8757337/publications.pdf

Version: 2024-02-01

80	3,880	117453	123241
papers	citations	34 h-index	61 g-index

81	81	81	4430
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Removal mechanisms for endocrine disrupting compounds (EDCs) in wastewater treatment â€" physical means, biodegradation, and chemical advanced oxidation: A review. Science of the Total Environment, 2009, 407, 731-748.	3.9	612
2	Urinary excretion rates of natural estrogens and androgens from humans, and their occurrence and fate in the environment: A review. Science of the Total Environment, 2009, 407, 4975-4985.	3.9	168
3	Worldwide human daily intakes of bisphenol A (BPA) estimated from global urinary concentration data (2000â€"2016) and its risk analysis. Environmental Pollution, 2017, 230, 143-152.	3.7	151
4	Removal of Natural Estrogens and Their Conjugates in Municipal Wastewater Treatment Plants: A Critical Review. Environmental Science & Technology, 2015, 49, 5288-5300.	4.6	137
5	Migration and potential risk of trace phthalates in bottled water: AÂglobal situation. Water Research, 2018, 147, 362-372.	5.3	134
6	Bisphenol A concentrations in human urine, human intakes across six continents, and annual trends of average intakes in adult and child populations worldwide: A thorough literature review. Science of the Total Environment, 2018, 626, 971-981.	3.9	133
7	Insights into removal mechanisms of bisphenol A and its analogues in municipal wastewater treatment plants. Science of the Total Environment, 2019, 692, 107-116.	3.9	116
8	A review of phytoestrogens: Their occurrence and fate in the environment. Water Research, 2010, 44, 567-577.	5.3	110
9	Enhanced coagulation of ferric chloride aided by tannic acid for phosphorus removal from wastewater. Chemosphere, 2008, 72, 290-298.	4.2	103
10	Dissolved Methane: A Hurdle for Anaerobic Treatment of Municipal Wastewater. Environmental Science & Technology, 2014, 48, 889-890.	4.6	100
11	Trace determination of sulfonamide antibiotics and their acetylated metabolites via SPE-LC-MS/MS in wastewater and insights from their occurrence in a municipal wastewater treatment plant. Science of the Total Environment, 2019, 653, 815-821.	3.9	99
12	Occurrence, fate and removal of synthetic oral contraceptives (SOCs) in the natural environment: A review. Science of the Total Environment, 2011, 409, 5149-5161.	3.9	89
13	A photo-switch for peroxydisulfate non-radical/radical activation over layered CuFe oxide: Rational degradation pathway choice for pollutants. Applied Catalysis B: Environmental, 2020, 261, 118232.	10.8	89
14	Immobilization of Sphingomonas sp. GY2B in polyvinyl alcoholâ€"alginateâ€"kaolin beads for efficient degradation of phenol against unfavorable environmental factors. Ecotoxicology and Environmental Safety, 2018, 162, 103-111.	2.9	88
15	Bisphenol analogues in Chinese bottled water: Quantification and potential risk analysis. Science of the Total Environment, 2020, 713, 136583.	3.9	88
16	Hexavalent chromium induced oxidative stress and apoptosis in Pycnoporus sanguineus. Environmental Pollution, 2017, 228, 128-139.	3.7	67
17	Influence of co-existed benzo[a]pyrene and copper on the cellular characteristics of Stenotrophomonas maltophilia during biodegradation and transformation. Bioresource Technology, 2014, 158, 181-187.	4.8	64
18	OPFRs and BFRs induced A549â€¯cell apoptosis by caspase-dependent mitochondrial pathway. Chemosphere, 2019, 221, 693-702.	4.2	60

#	Article	IF	Citations
19	Aerobic degradation of BDE-209 by Enterococcus casseliflavus: Isolation, identification and cell changes during degradation process. Journal of Hazardous Materials, 2016, 308, 335-342.	6.5	59
20	Global review of phthalates in edible oil: An emerging and nonnegligible exposure source to human. Science of the Total Environment, 2020, 704, 135369.	3.9	56
21	A review of 17Î±-ethynylestradiol (EE2) in surface water across 32 countries: Sources, concentrations, and potential estrogenic effects. Journal of Environmental Management, 2021, 292, 112804.	3.8	52
22	Physiological responses of Microcystis aeruginosa against the algicidal bacterium Pseudomonas aeruginosa. Ecotoxicology and Environmental Safety, 2016, 127, 214-221.	2.9	51
23	Human exposure of bisphenol A and its analogues: understandings from human urinary excretion data and wastewater-based epidemiology. Environmental Science and Pollution Research, 2020, 27, 3247-3256.	2.7	49
24	Occurrence and removal of 17Î±-ethynylestradiol (EE2) in municipal wastewater treatment plants: Current status and challenges. Chemosphere, 2021, 271, 129551.	4.2	49
25	Profile and removal of endocrine disrupting chemicals by using an ER/AR competitive ligand binding assay and chemical analyses. Journal of Environmental Sciences, 2009, 21, 900-906.	3.2	48
26	Making waves: Improving removal performance of conventional wastewater treatment plants on endocrine disrupting compounds (EDCs): their conjugates matter. Water Research, 2021, 188, 116469.	5.3	46
27	Leaching characteristics of heavy metals in tailings and their simultaneous immobilization with triethylenetetramine functioned montmorillonite (TETA-Mt) against simulated acid rain. Environmental Pollution, 2020, 266, 115236.	3.7	42
28	Trace determination of eleven natural estrogens and insights from their occurrence in a municipal wastewater treatment plant and river water. Water Research, 2020, 182, 115976.	5.3	40
29	Sample-preparation methods for direct and indirect analysis of natural estrogens. TrAC - Trends in Analytical Chemistry, 2015, 64, 149-164.	5.8	39
30	Identification of novel pathways for biotransformation of tetrabromobisphenol A by Phanerochaete chrysosporium, combined with mechanism analysis at proteome level. Science of the Total Environment, 2019, 659, 1352-1361.	3.9	39
31	Mechanism insight into efficient peroxydisulfate activation by novel nano zero-valent iron anchored yCo3O4 (nZVI/yCo3O4) composites. Journal of Hazardous Materials, 2020, 400, 123157.	6.5	39
32	Biosorption and biodegradation of pyrene by Brevibacillus brevis and cellular responses to pyrene treatment. Ecotoxicology and Environmental Safety, 2015, 115, 166-173.	2.9	37
33	Effects of single and combined copper/perfluorooctane sulfonate on sequencing batch reactor process and microbial community in activated sludge. Bioresource Technology, 2017, 238, 407-415.	4.8	37
34	Characteristics and proteomic analysis of pyrene degradation by Brevibacillus brevis in liquid medium. Chemosphere, 2017, 178, 80-87.	4.2	37
35	Simultaneous Analysis of Natural Free Estrogens and Their Conjugates in Wastewater by GCâ€MS. Clean - Soil, Air, Water, 2010, 38, 181-188.	0.7	34
36	Simultaneous Cr(VI) removal and 2,2â€²,4,4â€²-tetrabromodiphenyl ether (BDE-47) biodegradation by Pseudomonas aeruginosa in liquid medium. Chemosphere, 2016, 150, 24-32.	4.2	34

#	Article	IF	Citations
37	Fast trace determination of nine odorant and estrogenic chloro- and bromo-phenolic compounds in real water samples through automated solid-phase extraction coupled with liquid chromatography tandem mass spectrometry. Environmental Science and Pollution Research, 2018, 25, 3813-3822.	2.7	34
38	Deconjugation characteristics of natural estrogen conjugates by acid-catalyzed solvolysis and its application for wastewater samples. Journal of Environmental Monitoring, 2010, 12, 1594.	2.1	32
39	Do estrogenic compounds in drinking water migrating from plastic pipe distribution system pose adverse effects to human? An analysis of scientific literature. Environmental Science and Pollution Research, 2017, 24, 2126-2134.	2.7	32
40	Levels of six antibiotics used in China estimated by means of wastewater-based epidemiology. Water Science and Technology, 2016, 73, 769-775.	1.2	31
41	Simultaneous determination of estrogenic odorant alkylphenols, chlorophenols, and their derivatives in water using online headspace solid phase microextraction coupled with gas chromatography-mass spectrometry. Environmental Science and Pollution Research, 2016, 23, 19116-19125.	2.7	31
42	Simultaneous determination of eleven estrogenic and odorous chloro- and bromo-phenolic compounds in surface water through an automated online headspace SPME followed by on-fiber derivatization coupled with GC-MS. Analytical Methods, 2017, 9, 4819-4827.	1.3	31
43	Removal of Natural Free Estrogens and their Conjugates in a Municipal Wastewater Treatment Plant. Clean - Soil, Air, Water, 2011, 39, 128-135.	0.7	26
44	Tea saponin enhanced biodegradation of decabromodiphenyl ether by Brevibacillus brevis. Chemosphere, 2014, 114, 255-261.	4.2	26
45	Sulfate-reducing bacteria in anaerobic bioprocesses: basic properties of pure isolates, molecular quantification, and controlling strategies. Environmental Technology Reviews, 2018, 7, 46-72.	2.1	24
46	A brief review on possible approaches towards controlling sulfate-reducing bacteria (SRB) in wastewater treatment systems. Desalination and Water Treatment, 2015, 53, 2799-2807.	1.0	23
47	iTRAQ-based proteomic profiling of Pycnoporus sanguineus in response to co-existed tetrabromobisphenol A (TBBPA) and hexavalent chromium. Environmental Pollution, 2018, 242, 1758-1767.	3.7	22
48	pH-Dependent Transformation of Ag Nanoparticles in Anaerobic Processes. Environmental Science & Technology, 2013, 47, 12630-12631.	4.6	21
49	Do we underestimate the concentration of estriol in raw municipal wastewater?. Environmental Science and Pollution Research, 2015, 22, 4753-4758.	2.7	20
50	Legislation against endocrine-disrupting compounds in drinking water: essential but not enough to ensure water safety. Environmental Science and Pollution Research, 2021, 28, 19505-19510.	2.7	20
51	Occurrence, spatial distribution, and main source identification of ten bisphenol analogues in the dry season of the Pearl River, South China. Environmental Science and Pollution Research, 2022, 29, 27352-27365.	2.7	20
52	Urinary concentrations of bisphenol analogues in the south of China population and their contribution to the per capital mass loads in wastewater. Environmental Research, 2022, 204, 112398.	3.7	19
53	Possible overestimation of bisphenol analogues in municipal wastewater analyzed with GC-MS. Environmental Pollution, 2021, 273, 116505.	3.7	18
54	Simultaneous Analysis of Natural Free Estrogens and Their Sulfate Conjugates in Wastewater. Clean - Soil, Air, Water, 2010, 38, 1146-1151.	0.7	17

#	Article	IF	Citations
55	Metabolic biotransformation of copperâ€“benzo[a]pyrene combined pollutant on the cellular interface of Stenotrophomonas maltophilia. Bioresource Technology, 2016, 204, 26-31.	4.8	17
56	Strategy for effective inhibition of arylsulfatase/Î²-glucuronidase to prevent deconjugation of sulfate and glucuronide conjugates in wastewater during sample collection and storage. Science of the Total Environment, 2020, 703, 135536.	3.9	17
57	Twelve natural estrogens in urines of swine and cattle: Concentration profiles and importance of eight less-studied. Science of the Total Environment, 2022, 803, 150042.	3.9	17
58	Three-Dimensional Multi-Doped Porous Carbon/Graphene Derived from Sewage Sludge with Template-Assisted Fe-pillared Montmorillonite for Enhanced Oxygen Reduction Reaction. Scientific Reports, 2017, 7, 4158.	1.6	16
59	17Î±-ethynylestradiol and its two main conjugates in seven municipal wastewater treatment plants: Analytical method, their occurrence, removal and risk evaluation. Science of the Total Environment, 2022, 812, 152489.	3.9	16
60	Estimated human excretion rates of natural estrogens calculated from their concentrations in raw municipal wastewater and its application. Environmental Science and Pollution Research, 2015, 22, 9554-9562.	2.7	15
61	Cadmium-induced stress response of Phanerochaete chrysosporium during the biodegradation of 2,2â€²,4,4â€²-tetrabromodiphenyl ether (BDE-47). Ecotoxicology and Environmental Safety, 2018, 154, 45-51.	2.9	15
62	Biological wastewater treatment by a bioreactor with repeated coupling of aerobes and anaerobes aiming at on-site reduction of excess sludge. Water Science and Technology, 2006, 53, 71-77.	1.2	14
63	Polyphosphateâ€•and Glycogenâ€Accumulating Organisms in One EBPR System for Liquid Dairy Manure. Water Environment Research, 2014, 86, 663-671.	1.3	14
64	Degradation mechanism, intermediates and toxicology assessment of tris-(2-chloroisopropyl) phosphate using ultraviolet activated hydrogen peroxide. Chemosphere, 2020, 241, 124991.	4.2	14
65	Veterinary antibiotics in swine and cattle wastewaters of China and the United States: Features and differences. Water Environment Research, 2021, 93, 1516-1529.	1.3	13
66	Far-Less Studied Natural Estrogens as Ignored Emerging Contaminants in Surface Water: Insights from Their Occurrence in the Pearl River, South China. ACS ES&T Water, 2021, 1, 1776-1784.	2.3	11
67	The analysis of efficiency of activated peroxymonosulfate for fenuron degradation in water. Environmental Technology and Innovation, 2022, 26, 102352.	3.0	11
68	Simultaneous determination of triclosan, triclocarban, triclocarban metabolites and byproducts in urine and serum by ultraâ€highâ€performance liquid chromatography/electrospray ionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2021, 35, e9117.	0.7	6
69	17Î±-Estradiol, an ignored endogenous natural estrogen in human: Updated estrogen metabolism pathways and its environmental risk analysis. Science of the Total Environment, 2022, 829, 154693.	3.9	6
70	An innovative analytical method for estrogen sulfates without deconjugation procedure. KSCE Journal of Civil Engineering, 2012, 16, 919-924.	0.9	5
71	Inhibition Properties of Arylsulfatase and Î²-Glucuronidase by Hydrogen Peroxide, Hypochlorite, and Peracetic Acid. ACS Omega, 2021, 6, 8163-8170.	1.6	5
72	Inhibition effect of kaolinite on the development of antibiotic resistance genes in Escherichia coli induced by sublethal ampicillin and its molecular mechanism. Environmental Chemistry, 2019, 16, 347.	0.7	5

#	Article	IF	Citations
73	Stability properties of natural estrogen conjugates in different aqueous samples at room temperature and tips for sample storage. Environmental Science and Pollution Research, 2022, 29, 24589-24598.	2.7	5
74	Twelve natural estrogens in urines of six threatened or endangered mammalian species in Zoo Park: implications and their potential risk. Environmental Science and Pollution Research, 2022, 29, 49404-49410.	2.7	5
75	Activity measurement of arylsulfatase and Î²â€glucuronidase in activated sludge: HPLCâ€based versus classical spectrophotometric method. Water Environment Research, 2022, 94, e10704.	1.3	3
76	Comment on â€œSulfidation of Silver Nanoparticles: Natural Antidote to Their Toxicityâ€. Environmental Science & Technology, 2014, 48, 6050-6050.	4.6	2
77	Sulfite may disrupt estrogen homeostasis in human via inhibition of steroid arylsulfatase. Environmental Science and Pollution Research, 2022, 29, 19913.	2.7	2
78	Design, synthesis and antitumor activity of pyrrolopyrazinone-chalcone hybrids. Chemical Research in Chinese Universities, 2014, 30, 624-631.	1.3	1
79	Facile Fabrication of Free-Standing and Flexible Anodes Composed of Entangled N-Doped Carbon Nanotubes for Application in Lithium Ion Batteries. Nano, 2021, 16, 2150011.	0.5	1
80	Effect of Pb²⁺, Cd²⁺, Cu²⁺ and dissolved organic carbon (DOC) on the distribution and partition of decabromodiphenyl ether (BDE-209) in a waterâ€“sediment system. RSC Advances, 2015, 5, 105259-105265.	1.7	0