Chenxi Wu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3788511/publications.pdf

Version: 2024-02-01

100 papers	9,049 citations	57631 44 h-index	42291 92 g-index
102 all docs	102 docs citations	102 times ranked	7104 citing authors

#	Article	IF	Citations
1	Understanding plastic degradation and microplastic formation in the environment: A review. Environmental Pollution, 2021, 274, 116554.	3.7	559
2	Microplastic pollution of lakeshore sediments from remote lakes in Tibet plateau, China. Environmental Pollution, 2016, 219, 450-455.	3.7	414
3	Sources and distribution of microplastics in China's largest inland lake â€“ Qinghai Lake. Environmental Pollution, 2018, 235, 899-906.	3.7	401
4	Occurrence and Characteristics of Microplastic Pollution in Xiangxi Bay of Three Gorges Reservoir, China. Environmental Science & Technology, 2017, 51, 3794-3801.	4.6	393
5	Microplastics in soil: A review on methods, occurrence, sources, and potential risk. Science of the Total Environment, 2021, 780, 146546.	3.9	374
6	Accumulation of floating microplastics behind the Three Gorges Dam. Environmental Pollution, 2015, 204, 117-123.	3.7	371
7	Effects of plastic contamination on water evaporation and desiccation cracking in soil. Science of the Total Environment, 2019, 654, 576-582.	3.9	361
8	Uptake of Pharmaceutical and Personal Care Products by Soybean Plants from Soils Applied with Biosolids and Irrigated with Contaminated Water. Environmental Science & Technology, 2010, 44, 6157-6161.	4.6	351
9	Using the Asian clam as an indicator of microplastic pollution in freshwater ecosystems. Environmental Pollution, 2018, 234, 347-355.	3.7	330
10	Microplastic pollution in China's inland water systems: A review of findings, methods, characteristics, effects, and management. Science of the Total Environment, 2018, 630, 1641-1653.	3.9	321
11	Sorption of pharmaceuticals and personal care products to polyethylene debris. Environmental Science and Pollution Research, 2016, 23, 8819-8826.	2.7	299
12	The occurrence of microplastic in specific organs in commercially caught fishes from coast and estuary area of east China. Journal of Hazardous Materials, 2019, 365, 716-724.	6.5	284
13	Microplastics in freshwater sediment: A review on methods, occurrence, and sources. Science of the Total Environment, 2021, 754, 141948.	3.9	245
14	Advanced nutrient removal from surface water by a consortium of attached microalgae and bacteria: A review. Bioresource Technology, 2017, 241, 1127-1137.	4.8	234
15	Effects of virgin microplastics on goldfish (Carassius auratus). Chemosphere, 2018, 213, 323-332.	4.2	212
16	Occurrence and fate of microplastic debris in middle and lower reaches of the Yangtze River â€“ From inland to the sea. Science of the Total Environment, 2019, 659, 66-73.	3.9	200
17	Sinking of floating plastic debris caused by biofilm development in a freshwater lake. Chemosphere, 2019, 222, 856-864.	4.2	171
18	Used disposable face masks are significant sources of microplastics to environment. Environmental Pollution, 2021, 285, 117485.	3.7	165

#	Article	IF	Citations
19	A review on the characteristics of microplastics in wastewater treatment plants: A source for toxic chemicals. Journal of Cleaner Production, 2021, 295, 126480.	4.6	138
20	Occurrence of pharmaceuticals and personal care products and associated environmental risks in the central and lower Yangtze river, China. Ecotoxicology and Environmental Safety, 2014, 106, 19-26.	2.9	131
21	Removal of pharmaceuticals and personal care products from wastewater using algae-based technologies: a review. Reviews in Environmental Science and Biotechnology, 2017, 16, 717-735.	3.9	129
22	Microplastics contamination in different trophic state lakes along the middle and lower reaches of Yangtze River Basin. Environmental Pollution, 2019, 254, 112951.	3.7	123
23	Adsorption and Degradation of Triclosan and Triclocarban in Soils and Biosolids-Amended Soils. Journal of Agricultural and Food Chemistry, 2009, 57, 4900-4905.	2.4	122
24	Transfer of wastewater associated pharmaceuticals and personal care products to crop plants from biosolids treated soil. Ecotoxicology and Environmental Safety, 2012, 85, 104-109.	2.9	119
25	Effects of microplastic biofilms on nutrient cycling in simulated freshwater systems. Science of the Total Environment, 2020, 719, 137276.	3.9	105
26	Occurrence of selected pharmaceuticals in an agricultural landscape, western Lake Erie basin. Water Research, 2009, 43, 3407-3416.	5.3	100
27	Sorption and biodegradation of selected antibiotics in biosolids. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2009, 44, 454-461.	0.9	98
28	Pollutants delivered every day: Phthalates in plastic express packaging bags and their leaching potential. Journal of Hazardous Materials, 2020, 384, 121282.	6.5	94
29	Informal landfill contributes to the pollution of microplastics in the surrounding environment. Environmental Pollution, 2022, 293, 118586.	3.7	85
30	Ingestion and egestion of polyethylene microplastics by goldfish (Carassius auratus): influence of color and morphological features. Heliyon, 2019, 5, e03063.	1.4	82
31	Removal of nutrients and pharmaceuticals and personal care products from wastewater using periphyton photobioreactors. Bioresource Technology, 2018, 248, 113-119.	4.8	81
32	Organochlorine pesticides in soil, water and sediment along the Jinjiang River mainstream to Quanzhou Bay, southeast China. Ecotoxicology and Environmental Safety, 2013, 89, 59-65.	2.9	80
33	A preliminary screening of HBCD enantiomers transported by microplastics in wastewater treatment plants. Science of the Total Environment, 2019, 674, 171-178.	3.9	73
34	Nutrient removal by up-scaling a hybrid floating treatment bed (HFTB) using plant and periphyton: From laboratory tank to polluted river. Bioresource Technology, 2016, 207, 142-149.	4.8	69
35	Microplastic sampling techniques in freshwaters and sediments: a review. Environmental Chemistry Letters, 2021, 19, 4225-4252.	8.3	67
36	Spatial and temporal variations of organochlorine pesticides (OCPs) in water and sediments from Honghu Lake, China. Journal of Geochemical Exploration, 2013, 132, 181-187.	1.5	63

#	Article	IF	Citations
37	Transport and fate of microplastics in constructed wetlands: A microcosm study. Journal of Hazardous Materials, 2021, 415, 125615.	6.5	59
38	Spatial distribution and source diagnosis of polycyclic aromatic hydrocarbons in soils from Chengdu Economic Region, Sichuan Province, western China. Journal of Geochemical Exploration, 2011, 110, 146-154.	1.5	55
39	Microplastics in the intestinal tracts of East Asian finless porpoises (Neophocaena asiaeorientalis) Tj ETQq1 1 0.784314 rgBT /Overloc	2.3	55
40	The hydro-fluctuation belt of the Three Gorges Reservoir: Source or sink of microplastics in the water?. Environmental Pollution, 2019, 248, 279-285.	3.7	49
41	Influence of light and temperature on the development and denitrification potential of periphytic biofilms. Science of the Total Environment, 2018, 613-614, 1430-1437.	3.9	48
42	Interactions between the antimicrobial agent triclosan and the bloom-forming cyanobacteria Microcystis aeruginosa. Aquatic Toxicology, 2016, 172, 103-110.	1.9	46
43	Responses of Periphyton to Fe₂O₃ Nanoparticles: A Physiological and Ecological Basis for Defending Nanotoxicity. Environmental Science & Technology, 2017, 51, 10797-10805.	4.6	46
44	Microplastic Pollution in Inland Waters Focusing on Asia. Handbook of Environmental Chemistry, 2018, , 85-99.	0.2	46
45	Key rules of life and the fading cryosphere: Impacts in alpine lakes and streams. Global Change Biology, 2020, 26, 6644-6656.	4.2	46
46	Use of solid phase extraction and liquid chromatography-tandem mass spectrometry for simultaneous determination of various pharmaceuticals in surface water. International Journal of Environmental Analytical Chemistry, 2008, 88, 1033-1048.	1.8	43
47	Heavy metals in the â€œplastisphereâ€•of marine microplastics: adsorption mechanisms and composite risk. Gondwana Research, 2022, 108, 171-180.	3.0	42
48	Dissipation and Leaching Potential of Selected Pharmaceutically Active Compounds in Soils Amended with Biosolids. Archives of Environmental Contamination and Toxicology, 2010, 59, 343-351.	2.1	41
49	Functional sustainability of periphytic biofilms in organic matter and Cu2+ removal during prolonged exposure to TiO2 nanoparticles. Journal of Hazardous Materials, 2019, 370, 4-12.	6.5	41
50	Global transportation of plastics and microplastics: A critical review of pathways and influences. Science of the Total Environment, 2022, 831, 154884.	3.9	41
51	Occurrence and Fate of Selected Endocrine-Disrupting Chemicals in Water and Sediment from an Urban Lake. Archives of Environmental Contamination and Toxicology, 2015, 68, 225-236.	2.1	40
52	Dredging project caused short-term positive effects on lake ecosystem health: A five-year follow-up study at the integrated lake ecosystem level. Science of the Total Environment, 2019, 686, 753-763.	3.9	40
53	Detection of Pharmaceuticals and Personal Care Products in Agricultural Soils Receiving Biosolids Application. Clean - Soil, Air, Water, 2010, 38, 230-237.	0.7	38
54	Occurrence of microplastic in the water of different types of aquaculture ponds in an important lakeside freshwater aquaculture area of China. Chemosphere, 2021, 282, 131126.	4.2	38

#	Article	IF	Citations
55	Periphyton: an important regulator in optimizing soil phosphorus bioavailability in paddy fields. Environmental Science and Pollution Research, 2016, 23, 21377-21384.	2.7	37
56	Effects of sediment dredging on internal phosphorus: A comparative field study focused on iron and phosphorus forms in sediments. Ecological Engineering, 2015, 82, 267-271.	1.6	35
57	Preliminary assessment of heavy metal contamination in surface water and sediments from Honghu Lake, East Central China. Frontiers of Earth Science, 2012, 6, 39-47.	0.9	34
58	Treatment performance and microbial response to dibutyl phthalate contaminated wastewater in vertical flow constructed wetland mesocosms. Chemosphere, 2020, 246, 125635.	4.2	34
59	Sorption and degradation of triclosan in sediments and its effect on microbes. Ecotoxicology and Environmental Safety, 2015, 116, 76-83.	2.9	33
60	Bioremediation of agricultural solid waste leachates with diverse species of Cu (II) and Cd (II) by periphyton. Bioresource Technology, 2016, 221, 214-221.	4.8	32
61	Scientific studies on microplastics pollution in Iran: An in-depth review of the published articles. Marine Pollution Bulletin, 2021, 162, 111901.	2.3	32
62	Periphyton biofilm development and its role in nutrient cycling in paddy microcosms. Journal of Soils and Sediments, 2017, 17, 810-819.	1.5	31
63	Water and sediment quality in Qinghai Lake, China: a revisit after half a century. Environmental Monitoring and Assessment, 2014, 186, 2121-2133.	1.3	30
64	Chemical treatment of contaminated sediment for phosphorus control and subsequent effects on ammonia-oxidizing and ammonia-denitrifying microorganisms and on submerged macrophyte revegetation. Environmental Science and Pollution Research, 2017, 24, 1007-1018.	2.7	28
65	Spatio-temporal variations and influencing factors of polycyclic aromatic hydrocarbons in atmospheric bulk deposition along a plain-mountain transect in western China. Atmospheric Environment, 2016, 139, 131-138.	1.9	26
66	Effectiveness and Mode of Action of Calcium Nitrate and PhoslockÂ® in Phosphorus Control in Contaminated Sediment, a Microcosm Study. Water, Air, and Soil Pollution, 2015, 226, 1.	1.1	24
67	Horizontal transport of macro- and microplastics on soil surface by rainfall induced surface runoff as affected by vegetations. Science of the Total Environment, 2022, 831, 154989.	3.9	24
68	Partitioning and Degradation of Triclosan and Formation of Methyl-Triclosan in Water-Sediment Systems. Water, Air, and Soil Pollution, 2014, 225, 1.	1.1	22
69	Sample preparation methods for the analysis of microplastics in freshwater ecosystems: a review. Environmental Chemistry Letters, 2022, 20, 417-443.	8.3	21
70	Removal of parabens and their chlorinated by-products by periphyton: influence of light and temperature. Environmental Science and Pollution Research, 2017, 24, 5566-5575.	2.7	19
71	Urban natural wetland as a sink for microplastics: A case from Lalu Wetland in Tibet, China. Science of the Total Environment, 2022, 828, 154399.	3.9	19
72	Microplastics in Flathead Lake, a large oligotrophic mountain lake in the USA. Environmental Pollution, 2022, 306, 119445.	3.7	19

#	Article	IF	Citations
73	The counter-balance between ammonia absorption and the stimulation of volatilization by periphyton in shallow aquatic systems. Bioresource Technology, 2018, 248, 21-27.	4.8	18
74	Role of polystyrene microplastics in sunlight-mediated transformation of silver in aquatic environments: Mechanisms, kinetics and toxicity. Journal of Hazardous Materials, 2021, 419, 126429.	6.5	18
75	Effect of butyl paraben on the development and microbial composition of periphyton. Ecotoxicology, 2016, 25, 342-349.	1.1	15
76	Seasonal changes in phosphorus competition and allelopathy of a benthic microbial assembly facilitate prevention of cyanobacterial blooms. Environmental Microbiology, 2017, 19, 2483-2494.	1.8	15
77	Fish personality affects their exposure to microplastics. Ecotoxicology and Environmental Safety, 2022, 233, 113301.	2.9	15
78	A review on source, occurrence, and impacts of microplastics in freshwater aquaculture systems in China. , 2022, 1, 100040.		15
79	Mechanisms of enhanced inorganic phosphorus accumulation by periphyton in paddy fields as affected by calcium and ferrous ions. Science of the Total Environment, 2017, 609, 466-475.	3.9	14
80	Trace elements accumulation in the Yangtze finless porpoise (Neophocaena asiaeorientalis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 T 2019, 686, 797-804.	3.9	14
81	Occurrence and distribution of organochlorine pesticides and polycyclic aromatic hydrocarbons in surface sediments from Qinghai Lake, northeast Qinghaiâ€“Tibet plateau, China. Journal of Great Lakes Research, 2014, 40, 675-683.	0.8	13
82	Nutrient capture and recycling by periphyton attached to modified agrowaste carriers. Environmental Science and Pollution Research, 2016, 23, 8035-8043.	2.7	13
83	Microplastic occurrence in the northern South China Sea, A case for Pre and Post cyclone analysis. Chemosphere, 2022, 296, 133980.	4.2	13
84	Concentrations and classification of HCHs and DDTs in soil from the lower reaches of the Jiulong River, China. Frontiers of Environmental Science and Engineering, 2012, 6, 177-183.	3.3	10
85	Comparison of Modifiers for Mercury Speciation in Water by Solid Phase Extraction and High Performance Liquid Chromatographyâ€“Atomic Fluorescence Spectrometry. Analytical Letters, 2014, 47, 2417-2430.	1.0	10
86	Cladophora reblooming after half a century: effect of climate change-induced increases in the water level of the largest lake in Tibetan Plateau. Environmental Science and Pollution Research, 2020, 27, 42175-42181.	2.7	10
87	Interactions between dicyandiamide and periphytic biofilms in paddy soils and subsequent effects on nitrogen cycling. Science of the Total Environment, 2020, 718, 137417.	3.9	10
88	Effects of deep placement of fertilizer on periphytic biofilm development and nitrogen cycling in paddy systems. Pedosphere, 2021, 31, 125-133.	2.1	10
89	Mediated spatio-temporal patterns of macroinvertebrate assemblage associated with key environmental factors in the Qinghai Lake area, China. Limnologica, 2016, 56, 14-22.	0.7	9
90	Capture and Release of Phosphorus by Periphyton in Closed Water Systems Influenced by Illumination and Temperature. Water (Switzerland), 2019, 11, 1021.	1.2	9

#	Article	IF	Citations
91	First evaluation of legacy persistent organic pollutant contamination status of stranded Yangtze finless porpoises along the Yangtze River Basin, China. Science of the Total Environment, 2020, 710, 136446.	3.9	9
92	Effect of Biosolid Amendments on the Metal and Nutrient Uptake and Spectral Characteristics of Five Vegetable Plants. Water, Air, and Soil Pollution, 2014, 225, 1.	1.1	8
93	Comparison of the properties of periphyton attached to modified agro-waste carriers. Environmental Science and Pollution Research, 2016, 23, 3718-3726.	2.7	6
94	Euchlorocystis gen. nov. and Densicystis gen. nov., Two New Genera of Oocystaceae Algae from Highâ€altitude Semiâ€saline Habitat (Trebouxiophyceae, Chlorophyta). Journal of Eukaryotic Microbiology, 2018, 65, 200-210.	0.8	6
95	Effects of laser irradiation on a bloom forming cyanobacterium Microcystis aeruginosa. Environmental Science and Pollution Research, 2016, 23, 20297-20306.	2.7	4
96	The impact of particle size and photoaging on the leaching of phthalates from plastic waste. Journal of Cleaner Production, 2022, 367, 133109.	4.6	4
97	An analytical theory of heated duct flows in supersonic combustors. Theoretical and Applied Mechanics Letters, 2014, 4, 032001.	1.3	3
98	Feasibility of using plastic wastes as constructed wetland substrates and potential for pharmaceuticals and personal care products removal. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2020, 55, 1241-1246.	0.9	3
99	Removal of ppb-level DDTs from aqueous solution using organo-diatomites. Water Quality Research Journal of Canada, 2013, 48, 266-278.	1.2	2
100	Water Environment Characteristics at Taige Canal-Taihu Lake: a Comparative Study on Interaction between Chlorophyll Î± and Environmental Variables. Polish Journal of Environmental Studies, 2015, 24, 1031-1039.	0.6	2