

# Chihhao Fan

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

2,007  
citations

293460

24  
h-index

286692

43  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2819  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the dual-process approach for <i>in-situ</i> groundwater arsenic removal. <i>Environmental Technology</i> (United Kingdom), 2024, 45, 129-143.	1.2	0
2	Addressing nitrogenous gases from croplands toward low-emission agriculture. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .	2.6	32
3	Microplastic quantification of nylon and polyethylene terephthalate by chromic acid wet oxidation and ultraviolet spectrometry. <i>Environmental Technology and Innovation</i> , 2022, 28, 102683.	3.0	5
4	Prospect of microplastic pollution control under the "New normal" concept beyond COVID-19 pandemic. <i>Journal of Cleaner Production</i> , 2022, 367, 133027.	4.6	29
5	Copper concentration simulation in a river by SWAT-WASP integration and its application to assessing the impacts of climate change and various remediation strategies. <i>Journal of Environmental Management</i> , 2021, 279, 111613.	3.8	9
6	Model-based carrying capacity investigation and its application to total maximum daily load (TMDL) establishment for river water quality management: A case study in Taiwan. <i>Journal of Cleaner Production</i> , 2021, 291, 125251.	4.6	10
7	A Review of Geochemical Modeling for the Performance Assessment of Radioactive Waste Disposal in a Subsurface System. <i>Applied Sciences</i> (Switzerland), 2021, 11, 5879.	1.3	11
8	Non-conventional water reuse in agriculture: A circular water economy. <i>Water Research</i> , 2021, 199, 117193.	5.3	51
9	Anaerobic co-digestion of agricultural wastes toward circular bioeconomy. <i>IScience</i> , 2021, 24, 102704.	1.9	46
10	Microplastic constituent identification from admixtures by Fourier-transform infrared (FTIR) spectroscopy: The use of polyethylene terephthalate (PET), polyethylene (PE), polypropylene (PP), polyvinyl chloride (PVC) and nylon (NY) as the model constituents. <i>Environmental Technology and Innovation</i> , 2021, 23, 101798.	3.0	50
11	The Effect of Porosity Change in Bentonite Caused by Decay Heat on Radionuclide Transport through Buffer Material. <i>Applied Sciences</i> (Switzerland), 2021, 11, 7933.	1.3	2
12	Total-organic-carbon-based quantitative estimation of microplastics in sewage. <i>Chemical Engineering Journal</i> , 2021, 423, 130182.	6.6	23
13	Distribution of residual agricultural pesticides and their impact assessment on the survival of an endangered species. <i>Journal of Hazardous Materials</i> , 2020, 389, 121871.	6.5	23
14	Composition-oriented estimation of biogas production from major culinary wastes in an anaerobic bioreactor and its associated CO <sub>2</sub> reduction potential. <i>Bioresource Technology</i> , 2020, 318, 124045.	4.8	10
15	Effects of Light and Autotoxicity on the Reproduction of <i>Bidens pilosa</i> L.: From Laboratory to the Field. <i>Agriculture</i> (Switzerland), 2020, 10, 555.	1.4	0
16	Application of Waste Lemon Extract to Toxic Metal Removal through Gravitational Soil Flushing and Composting Stabilization. <i>Sustainability</i> , 2020, 12, 5751.	1.6	3
17	Mechanistic exploration of the catalytic modification by co-dissolved organic molecules for micropollutant degradation during fenton process. <i>Chemosphere</i> , 2020, 258, 127338.	4.2	8
18	Quality Improvement of Netted Melon ( <i>Cucumis melo</i> L. var. <i>reticulatus</i> ) through Precise Nitrogen and Potassium Management in a Hydroponic System. <i>Agronomy</i> , 2020, 10, 816.	1.3	5

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19	Allelopathic Effects of <i>Bidens pilosa</i> L. var. <i>radiata</i> Sch. Bip. on the Tuber Sprouting and Seedling Growth of <i>Cyperus rotundus</i> L.. <i>Plants</i> , 2020, 9, 742.	1.6	8
20	Urban Metabolic Analysis of a Food-Water-Energy System for Sustainable Resources Management. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 90.	1.2	24
21	Empirical Framework for a Relative Sustainability Evaluation of Urbanization on the Water-Energy-Food Nexus Using Simultaneous Equation Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 901.	1.2	12
22	Development and Deployment of Green Technologies for Sustainable Environment. <i>Environments - MDPI</i> , 2019, 6, 114.	1.5	11
23	Modeling computer recycling in Taiwan using system dynamics. <i>Resources, Conservation and Recycling</i> , 2018, 128, 167-175.	5.3	30
24	Field experiment for determining lead accumulation in rice grains of different genotypes and correlation with iron oxides deposited on rhizosphere soil. <i>Science of the Total Environment</i> , 2018, 610-611, 845-853.	3.9	20
25	Oxidation of iron sulfide and surface-bound iron to regenerate granular ferric hydroxide for in-situ hydrogen sulfide control by persulfate, chlorine and peroxide. <i>Chemical Engineering Journal</i> , 2018, 336, 587-594.	6.6	36
26	Taiwan's legal framework for marine pollution control and responses to marine oil spills and its implementation on T.S. Taipei cargo shipwreck salvage. <i>Marine Pollution Bulletin</i> , 2018, 136, 84-91.	2.3	17
27	Degradation Investigation of Selected Taste and Odor Compounds by a UV/Chlorine Advanced Oxidation Process. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 284.	1.2	21
28	Bromate formation from the oxidation of bromide in the UV/chlorine process with low pressure and medium pressure UV lamps. <i>Chemosphere</i> , 2017, 183, 582-588.	4.2	72
29	Quantitative characterization of organic diffusion using an analytical diffusion-reaction model and its application to assessing BOD removal when treating municipal wastewater in a plug flow reactor. <i>Water Research</i> , 2017, 121, 329-337.	5.3	8
30	Co-metabolic enhancement of organic removal from waste water in the presence of high levels of alkyl paraben constituents of cosmetic and personal care products. <i>Chemosphere</i> , 2017, 179, 306-315.	4.2	10
31	Synthesis of a SnO <sub>2</sub> /TNT Heterojunction Nanocomposite as a High-Performance Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6050-6059.	1.5	40
32	A Fe(II)/citrate/UV/PMS process for carbamazepine degradation at a very low Fe(II)/PMS ratio and neutral pH: The mechanisms. <i>Water Research</i> , 2017, 124, 446-453.	5.3	147
33	A novel Fe(II)/citrate/UV/peroxymonosulfate process for micropollutant degradation: Optimization by response surface methodology and effects of water matrices. <i>Chemosphere</i> , 2017, 184, 417-428.	4.2	24
34	Enhancing river patrol team management through stakeholder discussion facilitated by World Caf© methodology – A case study in Taiwan. <i>Journal of Cleaner Production</i> , 2017, 140, 1263-1271.	4.6	2
35	Applications of Information and Communication Technology for Improvements of Water and Soil Monitoring and Assessments in Agricultural Areas – A Case Study in the Taoyuan Irrigation District. <i>Environments - MDPI</i> , 2017, 4, 6.	1.5	10
36	Rainfall Threshold Assessment Corresponding to the Maximum Allowable Turbidity for Source Water. <i>Water Environment Research</i> , 2016, 88, 2285-2291.	1.3	2

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37	Oxidative degradation of N-Nitrosopyrrolidine by the ozone/UV process: Kinetics and pathways. <i>Chemosphere</i> , 2016, 150, 731-739.	4.2	26
38	A trust region-based approach to optimize triple response systems. <i>Engineering Optimization</i> , 2014, 46, 606-627.	1.5	4
39	Establishment of turbidity forecasting model and early-warning system for source water turbidity management using back-propagation artificial neural network algorithm and probability analysis. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 4925-4934.	1.3	15
40	Structural characterization of bagasse-derived composts with different maturities and their solubility enhancing effect on PCE and toluene. <i>Chemosphere</i> , 2014, 105, 95-99.	4.2	4
41	Structural characterization of natural organic matter and its impact on methomyl removal efficiency in Fenton process. <i>Chemosphere</i> , 2013, 93, 178-183.	4.2	25
42	Incorporating the LCIA concept into fuzzy risk assessment as a tool for environmental impact assessment. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 849-866.	1.9	14
43	Disassembly and recycling cost analysis of waste notebook and the efficiency improvement by re-design process. <i>Journal of Cleaner Production</i> , 2013, 39, 209-219.	4.6	34
44	Microbial community and treatment ability investigation in AOAO process for the optoelectronic wastewater treatment using PCR-DGGE biotechnology. <i>Biodegradation</i> , 2013, 24, 227-243.	1.5	19
45	Combining risk assessment, life cycle assessment, and multi-criteria decision analysis to estimate environmental aspects in environmental management system. <i>International Journal of Life Cycle Assessment</i> , 2012, 17, 845-862.	2.2	36
46	Sensitivity Analysis and Water Quality Modeling of a Tidal River Using a Modified Streeter-Phelps Equation with HEC-RAS-Calculated Hydraulic Characteristics. <i>Environmental Modeling and Assessment</i> , 2012, 17, 639-651.	1.2	29
47	Degradation of Methyl Paraben by the Aerated Pebble-bed Biofilm System. <i>APCBEE Procedia</i> , 2012, 1, 299-303.	0.5	11
48	Economic and environmental analysis of using constructed riparian wetlands to support urbanized municipal wastewater treatment. <i>Ecological Engineering</i> , 2012, 44, 249-258.	1.6	14
49	Reductive dechlorination of tetrachloroethene by two compost samples with different maturity. <i>Bioresource Technology</i> , 2011, 102, 10498-10504.	4.8	3
50	Parathion degradation and its intermediate formation by Fenton process in neutral environment. <i>Chemosphere</i> , 2011, 82, 229-236.	4.2	41
51	Performance evaluation and phylogenetic analysis of a full-scale subsurface cobble-bed biofilm system. <i>Ecological Engineering</i> , 2011, 37, 807-815.	1.6	4
52	Comparative study of multimedia models applied to the risk assessment of soil and groundwater contamination sites in Taiwan. <i>Journal of Hazardous Materials</i> , 2010, 182, 778-786.	6.5	21
53	Enhanced chemical oxygen demand removal and flux reduction in pulp and paper wastewater treatment using laccase-polymerized membrane filtration. <i>Journal of Hazardous Materials</i> , 2010, 181, 763-770.	6.5	20
54	Characteristic analysis of occupational accidents at small construction enterprises. <i>Safety Science</i> , 2010, 48, 698-707.	2.6	184

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55	Screening of Dioxin Biotransformation Bacteria from the Contaminated Soil. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	1
56	Removal of Orange II Dye in Water by Visible Light Assisted Photocatalytic Ozonation Using Bi <sub>2</sub> O <sub>3</sub> and Au/Bi <sub>2</sub> O <sub>3</sub> Nanorods. Industrial & Engineering Chemistry Research, 2010, 49, 9729-9737.	1.8	130
57	Nitrogenous disinfection byproducts formation and nitrogen origin exploration during chloramination of nitrogenous organic compounds. Water Research, 2010, 44, 2691-2702.	5.3	148
58	Risk assessment of exposure to volatile organic compounds in groundwater in Taiwan. Science of the Total Environment, 2009, 407, 2165-2174.	3.9	49
59	An innovative modeling approach using Qual2K and HEC-RAS integration to assess the impact of tidal effect on River Water quality simulation. Journal of Environmental Management, 2009, 90, 1824-1832.	3.8	93
60	Urban pollutant removal by a constructed riparian wetland before typhoon damage and after reconstruction. Ecological Engineering, 2009, 35, 424-435.	1.6	10
61	Treatment of septic tank effluents by a full-scale capillary seepage soil biofiltration system. Journal of Environmental Health, 2009, 71, 56-60.	0.5	11
62	Influence of Biological Oxygen Demand Degradation Patterns on Water-Quality Modeling for Rivers Running through Urban Areas. Annals of the New York Academy of Sciences, 2008, 1140, 78-85.	1.8	4
63	Correlations between organic matter properties and DBP formation during chloramination. Water Research, 2008, 42, 2329-2339.	5.3	132
64	Development of Run-To-Run (R2R) controller for the multiple-input multiple-output (MIMO) system using fuzzy control theories. International Journal of Production Research, 2007, 45, 3215-3243.	4.9	3
65	p-Nitrophenol, phenol and aniline sorption by organo-clays. Journal of Hazardous Materials, 2007, 149, 275-282.	6.5	78
66	Factors affecting bromate removal capacity of zerovalent iron packed columns. Water Science and Technology: Water Supply, 2006, 6, 119-130.	1.0	3
67	Response to "Comment on "Margules Equations Applied to PAH Solubilities in Alcohol-Water Mixtures". Environmental Science & Technology, 1999, 33, 1955-1955.	4.6	0
68	Margules Equations Applied to PAH Solubilities in Alcohol-Water Mixtures. Environmental Science & Technology, 1997, 31, 3516-3522.	4.6	30