Chihhao Fan

List of Publications by Year
in descending order

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68 papers	2,007 citations	257450 24 h-index	254184 43 g-index
69 all docs	69 docs citations	69 times ranked	2532 citing authors

#	Article	IF	Citations
1	Characteristic analysis of occupational accidents at small construction enterprises. Safety Science, 2010, 48, 698-707.	4.9	184
2	Nitrogenous disinfection byproducts formation and nitrogen origin exploration during chloramination of nitrogenous organic compounds. Water Research, 2010, 44, 2691-2702.	11.3	148
3	A Fe(II)/citrate/UV/PMS process for carbamazepine degradation at a very low Fe(II)/PMS ratio and neutral pH: The mechanisms. Water Research, 2017, 124, 446-453.	11.3	147
4	Correlations between organic matter properties and DBP formation during chloramination. Water Research, 2008, 42, 2329-2339.	11.3	132
5	Removal of Orange II Dye in Water by Visible Light Assisted Photocatalytic Ozonation Using Bi₂O₃and Au/Bi₂O₃Nanorods. Industrial & Engineering Chemistry Research, 2010, 49, 9729-9737.	3.7	130
6	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.	7.8	93
7	p-Nitrophenol, phenol and aniline sorption by organo-clays. Journal of Hazardous Materials, 2007, 149, 275-282.	12.4	78
8	Bromate formation from the oxidation of bromide in the UV/chlorine process with low pressure and medium pressure UV lamps. Chemosphere, 2017, 183, 582-588.	8.2	72
9	Non-conventional water reuse in agriculture: A circular water economy. Water Research, 2021, 199, 117193.	11.3	51
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. Environmental Technology and Innovation, 2021, 23, 101798.	6.1	50
11	Risk assessment of exposure to volatile organic compounds in groundwater in Taiwan. Science of the Total Environment, 2009, 407, 2165-2174.	8.0	49
12	Anaerobic co-digestion of agricultural wastes toward circular bioeconomy. IScience, 2021, 24, 102704.	4.1	46
13	Parathion degradation and its intermediate formation by Fenton process in neutral environment. Chemosphere, 2011, 82, 229-236.	8.2	41
14	Synthesis of a SnO₂/TNT Heterojunction Nanocomposite as a High-Performance Photocatalyst. Journal of Physical Chemistry C, 2017, 121, 6050-6059.	3.1	40
15	Combining risk assessment, life cycle assessment, and multi-criteria decision analysis to estimate environmental aspects in environmental management system. International Journal of Life Cycle Assessment, 2012, 17, 845-862.	4.7	36
16	Oxidation of iron sulfide and surface-bound iron to regenerate granular ferric hydroxide for in-situ hydrogen sulfide control by persulfate, chlorine and peroxide. Chemical Engineering Journal, 2018, 336, 587-594.	12.7	36
17	Disassembly and recycling cost analysis of waste notebook and the efficiency improvement by re-design process. Journal of Cleaner Production, 2013, 39, 209-219.	9.3	34
18	Addressing nitrogenous gases from croplands toward low-emission agriculture. Npj Climate and Atmospheric Science, 2022, 5, .	6.8	32

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19	Margules Equations Applied to PAH Solubilities in Alcoholâ^'Water Mixtures. Environmental Science & Technology, 1997, 31, 3516-3522.	10.0	30
20	Modeling computer recycling in Taiwan using system dynamics. Resources, Conservation and Recycling, 2018, 128, 167-175.	10.8	30
21	Sensitivity Analysis and Water Quality Modeling of a Tidal River Using a Modified Streeterâ€"Phelps Equation with HEC-RAS-Calculated Hydraulic Characteristics. Environmental Modeling and Assessment, 2012, 17, 639-651.	2.2	29
22	Prospect of microplastic pollution control under the â€œNew normalâ€•concept beyond COVID-19 pandemic. Journal of Cleaner Production, 2022, 367, 133027.	9.3	29
23	Oxidative degradation of N-Nitrosopyrrolidine by the ozone/UV process: Kinetics and pathways. Chemosphere, 2016, 150, 731-739.	8.2	26
24	Structural characterization of natural organic matter and its impact on methomyl removal efficiency in Fenton process. Chemosphere, 2013, 93, 178-183.	8.2	25
25	A novel Fe(II)/citrate/UV/peroxymonosulfate process for micropollutant degradation: Optimization by response surface methodology and effects of water matrices. Chemosphere, 2017, 184, 417-428.	8.2	24
26	Urban Metabolic Analysis of a Food-Water-Energy System for Sustainable Resources Management. International Journal of Environmental Research and Public Health, 2019, 16, 90.	2.6	24
27	Distribution of residual agricultural pesticides and their impact assessment on the survival of an endangered species. Journal of Hazardous Materials, 2020, 389, 121871.	12.4	23
28	Total-organic-carbon-based quantitative estimation of microplastics in sewage. Chemical Engineering Journal, 2021, 423, 130182.	12.7	23
29	Comparative study of multimedia models applied to the risk assessment of soil and groundwater contamination sites in Taiwan. Journal of Hazardous Materials, 2010, 182, 778-786.	12.4	21
30	Degradation Investigation of Selected Taste and Odor Compounds by a UV/Chlorine Advanced Oxidation Process. International Journal of Environmental Research and Public Health, 2018, 15, 284.	2.6	21
31	Enhanced chemical oxygen demand removal and flux reduction in pulp and paper wastewater treatment using laccase-polymerized membrane filtration. Journal of Hazardous Materials, 2010, 181, 763-770.	12.4	20
32	Field experiment for determining lead accumulation in rice grains of different genotypes and correlation with iron oxides deposited on rhizosphere soil. Science of the Total Environment, 2018, 610-611, 845-853.	8.0	20
33	Microbial community and treatment ability investigation in AOAO process for the optoelectronic wastewater treatment using PCR-DGGE biotechnology. Biodegradation, 2013, 24, 227-243.	3.0	19
34	Taiwan's legal framework for marine pollution control and responses to marine oil spills and its implementation on T.S. Taipei cargo shipwreck salvage. Marine Pollution Bulletin, 2018, 136, 84-91.	5.0	17
35	Establishment of turbidity forecasting model and early-warning system for source water turbidity management using back-propagation artificial neural network algorithm and probability analysis. Environmental Monitoring and Assessment, 2014, 186, 4925-4934.	2.7	15
36	Economic and environmental analysis of using constructed riparian wetlands to support urbanized municipal wastewater treatment. Ecological Engineering, 2012, 44, 249-258.	3.6	14

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37	Incorporating the LCIA concept into fuzzy risk assessment as a tool for environmental impact assessment. Stochastic Environmental Research and Risk Assessment, 2013, 27, 849-866.	4.0	14
38	Empirical Framework for a Relative Sustainability Evaluation of Urbanization on the Waterâ€“Energyâ€“Food Nexus Using Simultaneous Equation Analysis. International Journal of Environmental Research and Public Health, 2019, 16, 901.	2.6	12
39	Degradation of Methyl Paraben by the Aerated Pebble-bed Biofilm System. APCBEE Procedia, 2012, 1, 299-303.	0.5	11
40	Development and Deployment of Green Technologies for Sustainable Environment. Environments - MDPI, 2019, 6, 114.	3.3	11
41	A Review of Geochemical Modeling for the Performance Assessment of Radioactive Waste Disposal in a Subsurface System. Applied Sciences (Switzerland), 2021, 11, 5879.	2.5	11
42	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
43	Urban pollutant removal by a constructed riparian wetland before typhoon damage and after reconstruction. Ecological Engineering, 2009, 35, 424-435.	3.6	10
44	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. Chemosphere, 2017, 179, 306-315.	8.2	10
45	Applications of Information and Communication Technology for Improvements of Water and Soil Monitoring and Assessments in Agricultural Areasâ€”A Case Study in the Taoyuan Irrigation District. Environments - MDPI, 2017, 4, 6.	3.3	10
46	Composition-oriented estimation of biogas production from major culinary wastes in an anaerobic bioreactor and its associated CO2 reduction potential. Bioresource Technology, 2020, 318, 124045.	9.6	10
47	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. Journal of Cleaner Production, 2021, 291, 125251.	9.3	10
48	Copper concentration simulation in a river by SWAT-WASP integration and its application to assessing the impacts of climate change and various remediation strategies. Journal of Environmental Management, 2021, 279, 111613.	7.8	9
49	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. Water Research, 2017, 121, 329-337.	11.3	8
50	Mechanistic exploration of the catalytic modification by co-dissolved organic molecules for micropollutant degradation during fenton process. Chemosphere, 2020, 258, 127338.	8.2	8
51	Allelopathic Effects of Bidens pilosa L. var. radiata Sch. Bip. on the Tuber Sprouting and Seedling Growth of Cyperus rotundus L.. Plants, 2020, 9, 742.	3.5	8
52	Quality Improvement of Netted Melon (Cucumis melo L. var. reticulatus) through Precise Nitrogen and Potassium Management in a Hydroponic System. Agronomy, 2020, 10, 816.	3.0	5
53	Microplastic quantification of nylon and polyethylene terephthalate by chromic acid wet oxidation and ultraviolet spectrometry. Environmental Technology and Innovation, 2022, 28, 102683.	6.1	5
54	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.	3.8	4

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55	Performance evaluation and phylogenic analysis of a full-scale subsurface cobble-bed biofilm system. Ecological Engineering, 2011, 37, 807-815.	3.6	4
56	A trust region-based approach to optimize triple response systems. Engineering Optimization, 2014, 46, 606-627.	2.6	4
57	Structural characterization of bagasse-derived composts with different maturities and their solubility enhancing effect on PCE and toluene. Chemosphere, 2014, 105, 95-99.	8.2	4
58	Factors affecting bromate removal capacity of zerovalent iron packed columns. Water Science and Technology: Water Supply, 2006, 6, 119-130.	2.1	3
59	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.	7.5	3
60	Reductive dechlorination of tetrachloroethene by two compost samples with different maturity. Bioresource Technology, 2011, 102, 10498-10504.	9.6	3
61	Application of Waste Lemon Extract to Toxic Metal Removal through Gravitational Soil Flushing and Composting Stabilization. Sustainability, 2020, 12, 5751.	3.2	3
62	Rainfall Threshold Assessment Corresponding to the Maximum Allowable Turbidity for Source Water. Water Environment Research, 2016, 88, 2285-2291.	2.7	2
63	Enhancing river patrol team management through stakeholder discussion facilitated by World CafÃ© methodology â€“ A case study in Taiwan. Journal of Cleaner Production, 2017, 140, 1263-1271.	9.3	2
64	The Effect of Porosity Change in Bentonite Caused by Decay Heat on Radionuclide Transport through Buffer Material. Applied Sciences (Switzerland), 2021, 11, 7933.	2.5	2
65	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
66	Response to â€œComment on â€˜Margules Equations Applied to PAH Solubilities in Alcoholâ^'Water Mixturesâ€•. Environmental Science & Technology, 1999, 33, 1955-1955.	10.0	0
67	Effects of Light and Autotoxicity on the Reproduction of Bidens pilosa L.: From Laboratory to the Field. Agriculture (Switzerland), 2020, 10, 555.	3.1	0
68	Evaluation of the dual-process approach for in-situ groundwater arsenic removal. Environmental Technology (United Kingdom), 2024, 45, 129-143.	2.2	0