Ho-wen Chen

List of Publications by Year
in descending order

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48 papers	711 citations	623734 14 h-index	580821 25 g-index
50 all docs	50 docs citations	50 times ranked	853 citing authors

#	Article	IF	Citations
1	Accumulation of heavy metals and trace elements in fluvial sediments received effluents from traditional and semiconductor industries. Scientific Reports, 2016, 6, 34250.	3.3	74
2	Ambient BTEX and MTBE in the neighborhoods of different industrial parks in Southern Taiwan. Journal of Hazardous Materials, 2006, 128, 106-115.	12.4	67
3	Modeling the dioxin emission of a municipal solid waste incinerator using neural networks. Chemosphere, 2013, 92, 258-264.	8.2	63
4	Environmental performance evaluation of large-scale municipal solid waste incinerators using data envelopment analysis. Waste Management, 2010, 30, 1371-1381.	7.4	50
5	Using fuzzy operators to address the complexity in decision making of water resources redistribution in two neighboring river basins. Advances in Water Resources, 2010, 33, 652-666.	3.8	44
6	Strategic Orientation, Environmental Innovation Capability, and Environmental Sustainability Performance: The Case of Taiwanese Suppliers. Sustainability, 2019, 11, 1127.	3.2	40
7	Current advances and future challenges of AIoT applications in particulate matters (PM) monitoring and control. Journal of Hazardous Materials, 2021, 419, 126442.	12.4	27
8	Impacts of socioeconomic changes on municipal solid waste characteristics in Taiwan. Resources, Conservation and Recycling, 2020, 161, 104931.	10.8	26
9	Dynamic control of disinfection for wastewater reuse applying ORP/pH monitoring and artificial neural networks. Resources, Conservation and Recycling, 2008, 52, 1015-1021.	10.8	25
10	Simultaneously monitoring the particle size distribution, morphology and suspended solids concentration in wastewater applying digital image analysis (DIA). Environmental Monitoring and Assessment, 2009, 148, 19-26.	2.7	20
11	Forecasting effluent quality of an industry wastewater treatment plant by evolutionary grey dynamic model. Resources, Conservation and Recycling, 2010, 54, 235-241.	10.8	19
12	Effects of environmental factors on benthic species in a coastal wetland by redundancy analysis. Ocean and Coastal Management, 2019, 169, 37-49.	4.4	17
13	Sustainable planning for a coastal wetland system with an integrated ANP and DPSIR model for conflict resolution. Wetlands Ecology and Management, 2018, 26, 1015-1036.	1.5	16
14	DECISION SUPPORT FOR ALLOCATION OF WATERSHED POLLUTION LOAD USING GREY FUZZY MULTIOBJECTIVE PROGRAMMING. Journal of the American Water Resources Association, 2006, 42, 725-745.	2.4	15
15	Valuation of in-stream water quality improvement via fuzzy contingent valuation method. Stochastic Environmental Research and Risk Assessment, 2005, 19, 158-171.	4.0	13
16	Impact assessment of river dust on regional air quality through integrated remote sensing and air quality modeling. Science of the Total Environment, 2021, 755, 142621.	8.0	13
17	Application of pH-ORP titration to dynamically control the chlorination and dechlorination for wastewater reclamation. Desalination, 2009, 244, 164-176.	8.2	12
18	Causal relationships among biological toxicity, geochemical conditions and derived DBPs in groundwater. Journal of Hazardous Materials, 2015, 283, 24-34.	12.4	12

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19	A machine learning model for predicting PM2.5 and nitrate concentrations based on long-term water-soluble inorganic salts datasets at a road site station. Chemosphere, 2022, 289, 133123.	8.2	12
20	Biological toxicity of groundwater in a seashore area: Causal analysis and its spatial pollutant pattern. Chemosphere, 2014, 100, 8-15.	8.2	11
21	Redundancy analysis for characterizing the groundwater quality in coastal industrial areas. Environmental Forensics, 2019, 20, 77-91.	2.6	10
22	A stochastic multi-objective optimization decision model for energy facility allocation: a case of liquefied petroleum gas station. Clean Technologies and Environmental Policy, 2020, 22, 389-398.	4.1	10
23	Characterization of Particles in the Ambience of the High-Tech Industrial Park of Central Taiwan. Aerosol and Air Quality Research, 2013, 13, 699-708.	2.1	10
24	Evaluation of Non-point Source Loads in the Reservoir Watershed using the GIS/GPS/RS Information Technologies and Numerical Models. Water International, 2001, 26, 239-251.	1.0	9
25	Exploring the background features of acidic and basic air pollutants around an industrial complex using data mining approach. Chemosphere, 2010, 81, 1358-1367.	8.2	9
26	Strategic Orientation, Environmental Management Systems, and Eco-Innovation: Investigating the Moderating Effects of Absorptive Capacity. Sustainability, 2021, 13, 12147.	3.2	9
27	Flooding probability of urban area estimated by decision tree and artificial neural networks. Journal of Hydroinformatics, 2008, 10, 57-67.	2.4	8
28	Warning Models for Landslide and Channelized Debris Flow under Climate Change Conditions in Taiwan. Water (Switzerland), 2022, 14, 695.	2.7	8
29	Measurements of Wastewater True Color by 4/6 Wavelength Methods and Artificial Neural Network. Environmental Monitoring and Assessment, 2006, 118, 195-209.	2.7	7
30	Optimal safe groundwater yield for land conservation in a seashore area under uncertainty. Resources, Conservation and Recycling, 2010, 54, 481-488.	10.8	7
31	Systematic index frame for functional assessment of constructed wetlands. Ocean and Coastal Management, 2013, 73, 145-152.	4.4	5
32	Characterization of Both MTBE and BTEX in the Ambient Air of Night Markets in Southern Taiwan. Aerosol and Air Quality Research, 2005, 5, 154-170.	2.1	5
33	Analysis of Atmospheric Ozone Concentration Trends as Measured by Eighth Highest Values. Aerosol and Air Quality Research, 2008, 8, 308-318.	2.1	5
34	Optimizing the Monitoring Strategy of Wastewater Treatment Plants by Multiobjective Neural Networks Approach. Environmental Monitoring and Assessment, 2007, 125, 325-332.	2.7	4
35	Sizing an Off-stream Reservoir with Respect to Water Availability, Water Quality, and Biological Integrity. Environmental Modeling and Assessment, 2010, 15, 329-344.	2.2	4
36	Automobile gross emitter screening with remote sensing data using objective-oriented neural network. Science of the Total Environment, 2009, 407, 5811-5817.	8.0	3

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37	Effects of extracellular polymeric substances on the bioaccumulation of mercury and its toxicity toward the cyanobacteriumMicrocystis aeruginosa. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 1370-1379.	1.7	3
38	Adsorption characteristics of trace levels of bromate in drinking water by modified bamboo-based activated carbons. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2017, 52, 1055-1062.	1.7	3
39	Developing an ANN-based early warning model for airborne particulate matters in river banks areas. Expert Systems With Applications, 2021, 183, 115421.	7.6	3
40	Particles and Metallic Elements near a High-Tech Industrial Park: Analysis of Size Distributions. Aerosol and Air Quality Research, 2015, 15, 1787-1798.	2.1	3
41	Bio-inspired optimal site selection of LPG stations for gas-driven cars in an urban region. Journal of Natural Gas Science and Engineering, 2016, 35, 1301-1309.	4.4	2
42	User Integration in Two IoT Sustainable Services by Evaluation Grid Method. IEEE Internet of Things Journal, 2022, 9, 2242-2252.	8.7	2
43	Roles of socio-physical environments on air quality control policy with respect to knowledge, attitude and intention. Journal of Cleaner Production, 2021, 288, 125735.	9.3	2
44	Establishing Mechanism of Warning for River Dust Event Based on an Artificial Neural Network. Lecture Notes in Computer Science, 2016, , 51-60.	1.3	2
45	Implementation of a Respiratory Disease Forecasting Model Using LSTM for Central Taiwan. Lecture Notes in Electrical Engineering, 2020, , 441-450.	0.4	2
46	Determination of Topographic Factors to Initiate Debris Flow Using Statistical Analysis. International Journal of Machine Learning and Computing, 2014, 4, 547-552.	0.6	0
47	Capture of dioxin derivatives on activated carbons: breakthrough curve modelling and isotherm parameters. International Journal of Environment and Pollution, 2016, 60, 156.	0.2	0
48	Correction to: Implementation of a Respiratory Disease Forecasting Model Using LSTM for Central Taiwan. Lecture Notes in Electrical Engineering, 2020, , C1-C1.	0.4	0