

Victor Wei-Chung Chang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

3,450
citations

34
h-index

55
g-index

94
ext. papers

4,102
ext. citations

7.9
avg, IF

5.84
L-index

#	Paper	IF	Citations
93	Co-pyrolysis of sewage sludge and food waste digestate to synergistically improve biochar characteristics and heavy metals immobilization.. <i>Waste Management</i> , 2022 , 141, 231-239	8.6	0
92	Machine learning-based analysis of occupant-centric aspects: Critical elements in the energy consumption of residential buildings. <i>Journal of Building Engineering</i> , 2022 , 46, 103846	5.2	1
91	Performance gap in a multi-storey student accommodation complex built to Passivhaus standard. <i>Building and Environment</i> , 2021 , 194, 107704	6.5	2
90	Co-pyrolysis of sewage sludge and organic fractions of municipal solid waste: Synergistic effects on biochar properties and the environmental risk of heavy metals. <i>Journal of Hazardous Materials</i> , 2021 , 412, 125200	12.8	20
89	A review of building parameters' roles in conserving energy versus maintaining comfort. <i>Journal of Building Engineering</i> , 2021 , 35, 102087	5.2	7
88	Kinetics and modeling of trace metal leaching from bottom ashes dominated by diffusion or advection. <i>Science of the Total Environment</i> , 2020 , 719, 137203	10.2	16
87	Comparison and modeling of leachate transportation dominated by the field permeability with an anisotropic characteristic based on a large-scale field trial study. <i>Chemosphere</i> , 2020 , 242, 125254	8.4	4
86	Human exposure and risk assessment of recycling incineration bottom ash for land reclamation: A showcase coupling studies of leachability, transport modeling and bioaccumulation. <i>Journal of Hazardous Materials</i> , 2020 , 385, 121600	12.8	22
85	Comparative leaching characteristics of fly/bottom ashes from municipal solid waste incineration under various environmental stresses. <i>Journal of Material Cycles and Waste Management</i> , 2020 , 22, 46-53	5.4	6
84	Neural-signal electroencephalogram (EEG) methods to improve human-building interaction under different indoor air quality. <i>Energy and Buildings</i> , 2019 , 197, 188-195	7	9
83	Exposure and risk assessment of volatile organic compounds and airborne phthalates in Singapore's Child Care Centers. <i>Chemosphere</i> , 2019 , 224, 85-92	8.4	26
82	Vertical distribution of heavy metals in seawater column during IBA construction in land reclamation - Re-exploration of a large-scale field trial experiment. <i>Science of the Total Environment</i> , 2019 , 654, 356-364	10.2	18
81	Distribution and modeling of tar compounds produced during downdraft gasification of municipal solid waste. <i>Renewable Energy</i> , 2019 , 136, 1294-1303	8.1	19
80	A comprehensive performance evaluation of heterogeneous BiFeO ₃ /peroxymonosulfate system for sulfamethoxazole degradation. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 1026-1035	5.1	11
79	Co-complexation effects during incineration bottom ash leaching via comparison of measurements and geochemical modeling. <i>Journal of Cleaner Production</i> , 2018 , 189, 155-168	10.3	24
78	Fate and distribution of heavy metals during thermal processing of sewage sludge. <i>Fuel</i> , 2018 , 226, 721-744	7.44	142
77	Catalytic activities and resistance to HCl poisoning of Ni-based catalysts during steam reforming of naphthalene. <i>Applied Catalysis A: General</i> , 2018 , 557, 25-38	5.1	25

76	Removal of cytostatic drugs from wastewater by an anaerobic osmotic membrane bioreactor. <i>Chemical Engineering Journal</i> , 2018 , 339, 153-161	14.7	43
75	Cr, Cu, Hg and Ni release from incineration bottom ash during utilization in land reclamation - based on lab-scale batch and column leaching experiments and a modeling study. <i>Chemosphere</i> , 2018 , 197, 741-748	8.4	16
74	Influence of surface morphology on the performance of nanostructured ZnO-loaded ceramic honeycomb for syngas desulfurization. <i>Fuel</i> , 2018 , 211, 591-599	7.1	28
73	Statistical comparison of leaching behavior of incineration bottom ash using seawater and deionized water: Significant findings based on several leaching methods. <i>Journal of Hazardous Materials</i> , 2018 , 344, 635-648	12.8	24
72	Exploring temporal patterns of bacterial and fungal DNA accumulation on a ventilation system filter for a Singapore university library. <i>PLoS ONE</i> , 2018 , 13, e0200820	3.7	5
71	Human-building interaction under various indoor temperatures through neural-signal electroencephalogram (EEG) methods. <i>Building and Environment</i> , 2018 , 129, 46-53	6.5	35
70	Upgrading of non-condensable pyrolysis gas from mixed plastics through catalytic decomposition and dechlorination. <i>Fuel Processing Technology</i> , 2018 , 170, 13-20	7.2	40
69	Regulation, formation, exposure, and treatment of disinfection by-products (DBPs) in swimming pool waters: A critical review. <i>Environment International</i> , 2018 , 121, 1039-1057	12.9	51
68	A large-scale field trial experiment to derive effective release of heavy metals from incineration bottom ashes during construction in land reclamation. <i>Science of the Total Environment</i> , 2018 , 637-638, 182-190	10.2	17
67	Determination of urine-derived odorous compounds in a source separation sanitation system. <i>Journal of Environmental Sciences</i> , 2017 , 52, 240-249	6.4	3
66	Ecological succession of the microbial communities of an air-conditioning cooling coil in the tropics. <i>Indoor Air</i> , 2017 , 27, 345-353	5.4	15
65	Degradation of cyclophosphamide and 5-fluorouracil in water using UV and UV/H ₂ O ₂ : Kinetics investigation, pathways and energetic analysis. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 1133-1139	6.8	39
64	Conversion of non-condensable pyrolysis gases from plastics into carbon nanomaterials: Effects of feedstock and temperature. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 124, 16-24	6	38
63	Enhancing the catalytic activity of g-C ₃ N ₄ through Me doping (Me = Cu, Co and Fe) for selective sulfathiazole degradation via redox-based advanced oxidation process. <i>Chemical Engineering Journal</i> , 2017 , 323, 260-269	14.7	156
62	Direct and indirect photodegradation pathways of cytostatic drugs under UV germicidal irradiation: Process kinetics and influences of water matrix species and oxidant dosing. <i>Journal of Hazardous Materials</i> , 2017 , 324, 481-488	12.8	31
61	Review of MSWI bottom ash utilization from perspectives of collective characterization, treatment and existing application. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 79, 24-38	16.2	117
60	Removal of haloacetic acids from swimming pool water by reverse osmosis and nanofiltration. <i>Water Research</i> , 2017 , 116, 116-125	12.5	54
59	Multiple geophysical surveys for old landfill monitoring in Singapore. <i>Environmental Monitoring and Assessment</i> , 2017 , 189, 20	3.1	2

58	DNA accumulation on ventilation system filters in university buildings in Singapore. <i>PLoS ONE</i> , 2017 , 12, e0186295	3.7	3
57	Measurements, factor analysis and modeling of element leaching from incineration bottom ashes for quantitative component effects. <i>Journal of Cleaner Production</i> , 2017 , 165, 477-490	10.3	23
56	Life cycle assessment of adoption of local recycled aggregates and green concrete in Singapore perspective. <i>Journal of Cleaner Production</i> , 2017 , 164, 918-926	10.3	30
55	Thermal comfort, perceived air quality, and cognitive performance when personally controlled air movement is used by tropically acclimatized persons. <i>Indoor Air</i> , 2017 , 27, 690-702	5.4	72
54	Influence of moisturizer and relative humidity on human emissions of fluorescent biological aerosol particles. <i>Indoor Air</i> , 2017 , 27, 587-598	5.4	15
53	Role of calcium ions on the removal of haloacetic acids from swimming pool water by nanofiltration: mechanisms and implications. <i>Water Research</i> , 2017 , 110, 332-341	12.5	29
52	Bioaerosol deposition on an air-conditioning cooling coil. <i>Atmospheric Environment</i> , 2016 , 144, 257-265	5.3	17
51	Insights for transformation of contaminants in leachate at a tropical landfill dominated by natural attenuation. <i>Waste Management</i> , 2016 , 53, 105-15	8.6	8
50	Osmotic membrane bioreactor (OMBR) technology for wastewater treatment and reclamation: Advances, challenges, and prospects for the future. <i>Journal of Membrane Science</i> , 2016 , 504, 113-132	9.6	192
49	NTiO ₂ -coated polyester filters for visible light photocatalytic removal of gaseous toluene under static and dynamic flow conditions. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 357-364	6.8	11
48	Indoor and outdoor particles in an air-conditioned building during and after the 2013 haze in Singapore. <i>Building and Environment</i> , 2016 , 99, 73-81	6.5	30
47	Development of an accelerated leaching method for incineration bottom ash correlated to toxicity characteristic leaching protocol. <i>Electrophoresis</i> , 2016 , 37, 2458-2461	3.6	3
46	Indoor and outdoor particulate matter in primary school classrooms with fan-assisted natural ventilation in Singapore. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 17613-24	5.1	20
45	Kinetic and mechanistic investigation of azathioprine degradation in water by UV, UV/H ₂ O ₂ and UV/persulfate. <i>Chemical Engineering Journal</i> , 2016 , 302, 526-534	14.7	102
44	Comparing mixing and displacement ventilation in tutorial rooms: Students' thermal comfort, sick building syndromes, and short-term performance. <i>Building and Environment</i> , 2016 , 102, 128-137	6.5	56
43	Life cycle assessment of the present and proposed food waste management technologies from environmental and economic impact perspectives. <i>Journal of Cleaner Production</i> , 2016 , 131, 607-614	10.3	104
42	Performance evaluation of filter applications in fan-coil units during the 2015 Southeast Asian haze episode. <i>Building and Environment</i> , 2016 , 107, 191-197	6.5	7
41	An insight of disinfection by-product (DBP) formation by alternative disinfectants for swimming pool disinfection under tropical conditions. <i>Water Research</i> , 2016 , 101, 535-546	12.5	39

40	Multi-objective optimal speed for expressways. <i>IES Journal Part A: Civil and Structural Engineering</i> , 2015 , 8, 80-88		
39	Development of anaerobic osmotic membrane bioreactor for low-strength wastewater treatment at mesophilic condition. <i>Journal of Membrane Science</i> , 2015 , 490, 197-208	9.6	97
38	Application of hydroponic systems for the treatment of source-separated human urine. <i>Ecological Engineering</i> , 2015 , 81, 182-191	3.9	29
37	Particle exposure during the 2013 haze in Singapore: Importance of the built environment. <i>Building and Environment</i> , 2015 , 93, 14-23	6.5	34
36	Exposure to particulate matter and ozone of outdoor origin in Singapore. <i>Building and Environment</i> , 2015 , 93, 3-13	6.5	20
35	What can eco-driving do for sustainable road transport? Perspectives from a city (Singapore) eco-driving programme. <i>Sustainable Cities and Society</i> , 2015 , 14, 82-88	10.1	43
34	Modeling of cool roof heat transfer in tropical climate. <i>Renewable Energy</i> , 2015 , 75, 210-223	8.1	47
33	Air stripping process for ammonia recovery from source-separated urine: modeling and optimization. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 2208-2217	3.5	63
32	Protocol Improvements for Low Concentration DNA-Based Bioaerosol Sampling and Analysis. <i>PLoS ONE</i> , 2015 , 10, e0141158	3.7	41
31	Real-time occupancy estimation using environmental parameters 2015 ,		20
30	Thermal performance of concrete-based roofs in tropical climate. <i>Energy and Buildings</i> , 2014 , 76, 392-407		42
29	Multi-biomarker responses in green mussels exposed to PFCs: effects at molecular, cellular, and physiological levels. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 2785-94	5.1	17
28	Genotoxicity of perfluorinated chemicals (PFCs) to the green mussel (<i>Perna viridis</i>). <i>Science of the Total Environment</i> , 2014 , 487, 117-22	10.2	27
27	Developing Singapore Driving Cycle for passenger cars to estimate fuel consumption and vehicular emissions. <i>Atmospheric Environment</i> , 2014 , 97, 353-362	5.3	101
26	Evaluating the potential of biodiesel (via recycled cooking oil) use in Singapore, an urban city. <i>Resources, Conservation and Recycling</i> , 2014 , 91, 117-124	11.9	13
25	Mining nutrients (N, K, P) from urban source-separated urine by forward osmosis dewatering. <i>Environmental Science & Technology</i> , 2014 , 48, 3386-94	10.3	118
24	Life Cycle Assessment for desalination: a review on methodology feasibility and reliability. <i>Water Research</i> , 2014 , 61, 210-23	12.5	53
23	Environmental life cycle assessment of different domestic wastewater streams: policy effectiveness in a tropical urban environment. <i>Journal of Environmental Management</i> , 2014 , 140, 60-8	7.9	29

22	Oxidative toxicity of perfluorinated chemicals in green mussel and bioaccumulation factor dependent quantitative structure-activity relationship. <i>Environmental Toxicology and Chemistry</i> , 2014 , 33, 2323-32	3.8	11
21	Comparison of solvent extraction and thermal desorption methods for determination of volatile polyfluorinated alkyl substances in the urban atmosphere. <i>Analytical Methods</i> , 2013 , 5, 3410	3.2	3
20	Model-based optimization for vapor compression refrigeration cycle. <i>Energy</i> , 2013 , 55, 392-402	7.9	29
19	Decentralized optimization for vapor compression refrigeration cycle. <i>Applied Thermal Engineering</i> , 2013 , 51, 753-763	5.8	14
18	Characterization of induced struvite formation from source-separated urine using seawater and brine as magnesium sources. <i>Chemosphere</i> , 2013 , 93, 2738-47	8.4	92
17	Experimental study on visible-light induced photocatalytic oxidation of gaseous formaldehyde by polyester fiber supported photocatalysts. <i>Chemical Engineering Journal</i> , 2013 , 218, 9-18	14.7	51
16	Removal of cytostatic drugs from aquatic environment: a review. <i>Science of the Total Environment</i> , 2013 , 445-446, 281-98	10.2	192
15	An improved life cycle impact assessment (LCIA) approach for assessing aquatic eco-toxic impact of brine disposal from seawater desalination plants. <i>Desalination</i> , 2013 , 308, 233-241	10.3	49
14	Adaptation of urine source separation in tropical cities: Process optimization and odor mitigation. <i>Journal of the Air and Waste Management Association</i> , 2013 , 63, 472-81	2.4	24
13	Reply to Comment on "The Effect of Surface Adsorption and Molecular Geometry on the Determination of Henry's Law Constants for Fluorotelomer Alcohols" <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1418-1419	2.8	
12	Environmental toxicity of PFCs: an enhanced integrated biomarker assessment and structure-activity analysis. <i>Environmental Toxicology and Chemistry</i> , 2013 , 32, 2226-33	3.8	32
11	An HPLC-DAD method for rapid and high resolution analysis of concentrated BTEX and styrene aqueous samples. <i>Analytical Methods</i> , 2012 , 4, 3545	3.2	5
10	Human health and thermal comfort of office workers in Singapore. <i>Building and Environment</i> , 2012 , 58, 172-178	6.5	45
9	Development of analysis of volatile polyfluorinated alkyl substances in indoor air using thermal desorption-gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2012 , 1238, 114-20	4.5	15
8	Preparation of TiO ₂ -Coated Polyester Fiber Filter by Spray-Coating and Its Photocatalytic Degradation of Gaseous Formaldehyde. <i>Aerosol and Air Quality Research</i> , 2012 , 12, 1327-1335	4.6	28
7	Environmental life cycle assessment of reverse osmosis desalination: The influence of different life cycle impact assessment methods on the characterization results. <i>Desalination</i> , 2011 , 283, 227-236	10.3	56
6	Balancing BEC and IAQ in civil buildings during rapid urbanization in China: Regulation, interplay and collaboration. <i>Energy Policy</i> , 2011 , 39, 5778-5790	7.2	5
5	Environmental life cycle assessment of brackish water reverse osmosis desalination for different electricity production models. <i>Energy and Environmental Science</i> , 2011 , 4, 2267	35.4	43

4	Novel perspectives on the bioaccumulation of PFCs--the concentration dependency. <i>Environmental Science & Technology</i> , 2011 , 45, 9758-64	10.3	105
3	The Effect of Surface Adsorption and Molecular Geometry on the Determination of Henry's Law Constants for Fluorotelomer Alcohols. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 3442-3448 ^{2.8}		13
2	Wind tunnel measurements of the dilution of tailpipe emissions downstream of a car, a light-duty truck, and a heavy-duty truck tractor head. <i>Journal of the Air and Waste Management Association</i> , 2009 , 59, 704-14	2.4	5
1	Dilution rates for tailpipe emissions: effects of vehicle shape, tailpipe position, and exhaust velocity. <i>Journal of the Air and Waste Management Association</i> , 2009 , 59, 715-24	2.4	12