

# Victor Wei-Chung Chang

## List of Publications by Citations

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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	Osmotic membrane bioreactor (OMBR) technology for wastewater treatment and reclamation: Advances, challenges, and prospects for the future. <i>Journal of Membrane Science</i> , <b>2016</b> , 504, 113-132	9.6	192
92	Removal of cytostatic drugs from aquatic environment: a review. <i>Science of the Total Environment</i> , <b>2013</b> , 445-446, 281-98	10.2	192
91	Enhancing the catalytic activity of g-C <sub>3</sub> N <sub>4</sub> through Me doping (Me = Cu, Co and Fe) for selective sulfathiazole degradation via redox-based advanced oxidation process. <i>Chemical Engineering Journal</i> , <b>2017</b> , 323, 260-269	14.7	156
90	Fate and distribution of heavy metals during thermal processing of sewage sludge. <i>Fuel</i> , <b>2018</b> , 226, 721-744	7.4	142
89	Mining nutrients (N, K, P) from urban source-separated urine by forward osmosis dewatering. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 3386-94	10.3	118
88	Review of MSWI bottom ash utilization from perspectives of collective characterization, treatment and existing application. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 79, 24-38	16.2	117
87	Novel perspectives on the bioaccumulation of PFCs--the concentration dependency. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 9758-64	10.3	105
86	Life cycle assessment of the present and proposed food waste management technologies from environmental and economic impact perspectives. <i>Journal of Cleaner Production</i> , <b>2016</b> , 131, 607-614	10.3	104
85	Kinetic and mechanistic investigation of azathioprine degradation in water by UV, UV/H <sub>2</sub> O <sub>2</sub> and UV/persulfate. <i>Chemical Engineering Journal</i> , <b>2016</b> , 302, 526-534	14.7	102
84	Developing Singapore Driving Cycle for passenger cars to estimate fuel consumption and vehicular emissions. <i>Atmospheric Environment</i> , <b>2014</b> , 97, 353-362	5.3	101
83	Development of anaerobic osmotic membrane bioreactor for low-strength wastewater treatment at mesophilic condition. <i>Journal of Membrane Science</i> , <b>2015</b> , 490, 197-208	9.6	97
82	Characterization of induced struvite formation from source-separated urine using seawater and brine as magnesium sources. <i>Chemosphere</i> , <b>2013</b> , 93, 2738-47	8.4	92
81	Thermal comfort, perceived air quality, and cognitive performance when personally controlled air movement is used by tropically acclimatized persons. <i>Indoor Air</i> , <b>2017</b> , 27, 690-702	5.4	72
80	Air stripping process for ammonia recovery from source-separated urine: modeling and optimization. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2015</b> , 90, 2208-2217	3.5	63
79	Environmental life cycle assessment of reverse osmosis desalination: The influence of different life cycle impact assessment methods on the characterization results. <i>Desalination</i> , <b>2011</b> , 283, 227-236	10.3	56
78	Comparing mixing and displacement ventilation in tutorial rooms: Students' thermal comfort, sick building syndromes, and short-term performance. <i>Building and Environment</i> , <b>2016</b> , 102, 128-137	6.5	56
77	Removal of haloacetic acids from swimming pool water by reverse osmosis and nanofiltration. <i>Water Research</i> , <b>2017</b> , 116, 116-125	12.5	54

76	Life Cycle Assessment for desalination: a review on methodology feasibility and reliability. <i>Water Research</i> , <b>2014</b> , 61, 210-23	12.5	53
75	Experimental study on visible-light induced photocatalytic oxidation of gaseous formaldehyde by polyester fiber supported photocatalysts. <i>Chemical Engineering Journal</i> , <b>2013</b> , 218, 9-18	14.7	51
74	Regulation, formation, exposure, and treatment of disinfection by-products (DBPs) in swimming pool waters: A critical review. <i>Environment International</i> , <b>2018</b> , 121, 1039-1057	12.9	51
73	An improved life cycle impact assessment (LCIA) approach for assessing aquatic eco-toxic impact of brine disposal from seawater desalination plants. <i>Desalination</i> , <b>2013</b> , 308, 233-241	10.3	49
72	Modeling of cool roof heat transfer in tropical climate. <i>Renewable Energy</i> , <b>2015</b> , 75, 210-223	8.1	47
71	Human health and thermal comfort of office workers in Singapore. <i>Building and Environment</i> , <b>2012</b> , 58, 172-178	6.5	45
70	What can eco-driving do for sustainable road transport? Perspectives from a city (Singapore) eco-driving programme. <i>Sustainable Cities and Society</i> , <b>2015</b> , 14, 82-88	10.1	43
69	Removal of cytostatic drugs from wastewater by an anaerobic osmotic membrane bioreactor. <i>Chemical Engineering Journal</i> , <b>2018</b> , 339, 153-161	14.7	43
68	Environmental life cycle assessment of brackish water reverse osmosis desalination for different electricity production models. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 2267	35.4	43
67	Thermal performance of concrete-based roofs in tropical climate. <i>Energy and Buildings</i> , <b>2014</b> , 76, 392-407	7.7	42
66	Protocol Improvements for Low Concentration DNA-Based Bioaerosol Sampling and Analysis. <i>PLoS ONE</i> , <b>2015</b> , 10, e0141158	3.7	41
65	Upgrading of non-condensable pyrolysis gas from mixed plastics through catalytic decomposition and dechlorination. <i>Fuel Processing Technology</i> , <b>2018</b> , 170, 13-20	7.2	40
64	Degradation of cyclophosphamide and 5-fluorouracil in water using UV and UV/H <sub>2</sub> O <sub>2</sub> : Kinetics investigation, pathways and energetic analysis. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 1133-1139	6.8	39
63	An insight of disinfection by-product (DBP) formation by alternative disinfectants for swimming pool disinfection under tropical conditions. <i>Water Research</i> , <b>2016</b> , 101, 535-546	12.5	39
62	Conversion of non-condensable pyrolysis gases from plastics into carbon nanomaterials: Effects of feedstock and temperature. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2017</b> , 124, 16-24	6	38
61	Human-building interaction under various indoor temperatures through neural-signal electroencephalogram (EEG) methods. <i>Building and Environment</i> , <b>2018</b> , 129, 46-53	6.5	35
60	Particle exposure during the 2013 haze in Singapore: Importance of the built environment. <i>Building and Environment</i> , <b>2015</b> , 93, 14-23	6.5	34
59	Environmental toxicity of PFCs: an enhanced integrated biomarker assessment and structure-activity analysis. <i>Environmental Toxicology and Chemistry</i> , <b>2013</b> , 32, 2226-33	3.8	32

58	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> , <b>2017</b> , 324, 481-488	12.8	31
57	Indoor and outdoor particles in an air-conditioned building during and after the 2013 haze in Singapore. <i>Building and Environment</i> , <b>2016</b> , 99, 73-81	6.5	30
56	Life cycle assessment of adoption of local recycled aggregates and green concrete in Singapore perspective. <i>Journal of Cleaner Production</i> , <b>2017</b> , 164, 918-926	10.3	30
55	Application of hydroponic systems for the treatment of source-separated human urine. <i>Ecological Engineering</i> , <b>2015</b> , 81, 182-191	3.9	29
54	Environmental life cycle assessment of different domestic wastewater streams: policy effectiveness in a tropical urban environment. <i>Journal of Environmental Management</i> , <b>2014</b> , 140, 60-8	7.9	29
53	Model-based optimization for vapor compression refrigeration cycle. <i>Energy</i> , <b>2013</b> , 55, 392-402	7.9	29
52	Role of calcium ions on the removal of haloacetic acids from swimming pool water by nanofiltration: mechanisms and implications. <i>Water Research</i> , <b>2017</b> , 110, 332-341	12.5	29
51	Influence of surface morphology on the performance of nanostructured ZnO-loaded ceramic honeycomb for syngas desulfurization. <i>Fuel</i> , <b>2018</b> , 211, 591-599	7.1	28
50	Preparation of TiO <sub>2</sub> -Coated Polyester Fiber Filter by Spray-Coating and Its Photocatalytic Degradation of Gaseous Formaldehyde. <i>Aerosol and Air Quality Research</i> , <b>2012</b> , 12, 1327-1335	4.6	28
49	Genotoxicity of perfluorinated chemicals (PFCs) to the green mussel ( <i>Perna viridis</i> ). <i>Science of the Total Environment</i> , <b>2014</b> , 487, 117-22	10.2	27
48	Exposure and risk assessment of volatile organic compounds and airborne phthalates in Singapore's Child Care Centers. <i>Chemosphere</i> , <b>2019</b> , 224, 85-92	8.4	26
47	Catalytic activities and resistance to HCl poisoning of Ni-based catalysts during steam reforming of naphthalene. <i>Applied Catalysis A: General</i> , <b>2018</b> , 557, 25-38	5.1	25
46	Co-complexation effects during incineration bottom ash leaching via comparison of measurements and geochemical modeling. <i>Journal of Cleaner Production</i> , <b>2018</b> , 189, 155-168	10.3	24
45	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> , <b>2018</b> , 344, 635-648	12.8	24
44	Adaptation of urine source separation in tropical cities: Process optimization and odor mitigation. <i>Journal of the Air and Waste Management Association</i> , <b>2013</b> , 63, 472-81	2.4	24
43	Measurements, factor analysis and modeling of element leaching from incineration bottom ashes for quantitative component effects. <i>Journal of Cleaner Production</i> , <b>2017</b> , 165, 477-490	10.3	23
42	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> , <b>2020</b> , 385, 121600	12.8	22
41	Exposure to particulate matter and ozone of outdoor origin in Singapore. <i>Building and Environment</i> , <b>2015</b> , 93, 3-13	6.5	20

40	Real-time occupancy estimation using environmental parameters <b>2015</b> ,		20
39	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> , <b>2021</b> , 412, 125200	12.8	20
38	Indoor and outdoor particulate matter in primary school classrooms with fan-assisted natural ventilation in Singapore. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 17613-24	5.1	20
37	Distribution and modeling of tar compounds produced during downdraft gasification of municipal solid waste. <i>Renewable Energy</i> , <b>2019</b> , 136, 1294-1303	8.1	19
36	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> , <b>2019</b> , 654, 356-364	10.2	18
35	Bioaerosol deposition on an air-conditioning cooling coil. <i>Atmospheric Environment</i> , <b>2016</b> , 144, 257-265	5.3	17
34	Multi-biomarker responses in green mussels exposed to PFCs: effects at molecular, cellular, and physiological levels. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 2785-94	5.1	17
33	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> , <b>2018</b> , 637-638, 182-190	10.2	17
32	Kinetics and modeling of trace metal leaching from bottom ashes dominated by diffusion or advection. <i>Science of the Total Environment</i> , <b>2020</b> , 719, 137203	10.2	16
31	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> , <b>2018</b> , 197, 741-748	8.4	16
30	Ecological succession of the microbial communities of an air-conditioning cooling coil in the tropics. <i>Indoor Air</i> , <b>2017</b> , 27, 345-353	5.4	15
29	Influence of moisturizer and relative humidity on human emissions of fluorescent biological aerosol particles. <i>Indoor Air</i> , <b>2017</b> , 27, 587-598	5.4	15
28	Development of analysis of volatile polyfluorinated alkyl substances in indoor air using thermal desorption-gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , <b>2012</b> , 1238, 114-20	4.5	15
27	Decentralized optimization for vapor compression refrigeration cycle. <i>Applied Thermal Engineering</i> , <b>2013</b> , 51, 753-763	5.8	14
26	Evaluating the potential of biodiesel (via recycled cooking oil) use in Singapore, an urban city. <i>Resources, Conservation and Recycling</i> , <b>2014</b> , 91, 117-124	11.9	13
25	The Effect of Surface Adsorption and Molecular Geometry on the Determination of Henry's Law Constants for Fluorotelomer Alcohols. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 3442-3448	2.8	13
24	Dilution rates for tailpipe emissions: effects of vehicle shape, tailpipe position, and exhaust velocity. <i>Journal of the Air and Waste Management Association</i> , <b>2009</b> , 59, 715-24	2.4	12
23	NTiO <sub>2</sub> -coated polyester filters for visible light photocatalytic removal of gaseous toluene under static and dynamic flow conditions. <i>Journal of Environmental Chemical Engineering</i> , <b>2016</b> , 4, 357-364	6.8	11

22	Oxidative toxicity of perfluorinated chemicals in green mussel and bioaccumulation factor dependent quantitative structure-activity relationship. <i>Environmental Toxicology and Chemistry</i> , <b>2014</b> , 33, 2323-32	3.8	11
21	A comprehensive performance evaluation of heterogeneous BiFeO <sub>3</sub> /peroxymonosulfate system for sulfamethoxazole degradation. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 1026-1035	5.1	11
20	Neural-signal electroencephalogram (EEG) methods to improve human-building interaction under different indoor air quality. <i>Energy and Buildings</i> , <b>2019</b> , 197, 188-195	7	9
19	Insights for transformation of contaminants in leachate at a tropical landfill dominated by natural attenuation. <i>Waste Management</i> , <b>2016</b> , 53, 105-15	8.6	8
18	Performance evaluation of filter applications in fan-coil units during the 2015 Southeast Asian haze episode. <i>Building and Environment</i> , <b>2016</b> , 107, 191-197	6.5	7
17	A review of building parameters' roles in conserving energy versus maintaining comfort. <i>Journal of Building Engineering</i> , <b>2021</b> , 35, 102087	5.2	7
16	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> , <b>2020</b> , 22, 46-53	3.4	6
15	Exploring temporal patterns of bacterial and fungal DNA accumulation on a ventilation system filter for a Singapore university library. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200820	3.7	5
14	An HPLC-DAD method for rapid and high resolution analysis of concentrated BTEX and styrene aqueous samples. <i>Analytical Methods</i> , <b>2012</b> , 4, 3545	3.2	5
13	Balancing BEC and IAQ in civil buildings during rapid urbanization in China: Regulation, interplay and collaboration. <i>Energy Policy</i> , <b>2011</b> , 39, 5778-5790	7.2	5
12	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> , <b>2009</b> , 59, 704-14	2.4	5
11	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> , <b>2020</b> , 242, 125254	8.4	4
10	Determination of urine-derived odorous compounds in a source separation sanitation system. <i>Journal of Environmental Sciences</i> , <b>2017</b> , 52, 240-249	6.4	3
9	DNA accumulation on ventilation system filters in university buildings in Singapore. <i>PLoS ONE</i> , <b>2017</b> , 12, e0186295	3.7	3
8	Comparison of solvent extraction and thermal desorption methods for determination of volatile polyfluorinated alkyl substances in the urban atmosphere. <i>Analytical Methods</i> , <b>2013</b> , 5, 3410	3.2	3
7	Development of an accelerated leaching method for incineration bottom ash correlated to toxicity characteristic leaching protocol. <i>Electrophoresis</i> , <b>2016</b> , 37, 2458-2461	3.6	3
6	Multiple geophysical surveys for old landfill monitoring in Singapore. <i>Environmental Monitoring and Assessment</i> , <b>2017</b> , 189, 20	3.1	2
5	Performance gap in a multi-storey student accommodation complex built to Passivhaus standard. <i>Building and Environment</i> , <b>2021</b> , 194, 107704	6.5	2

4	Machine learning-based analysis of occupant-centric aspects: Critical elements in the energy consumption of residential buildings. <i>Journal of Building Engineering</i> , <b>2022</b> , 46, 103846	5.2	1
3	Co-pyrolysis of sewage sludge and food waste digestate to synergistically improve biochar characteristics and heavy metals immobilization.. <i>Waste Management</i> , <b>2022</b> , 141, 231-239	8.6	0
2	Multi-objective optimal speed for expressways. <i>IES Journal Part A: Civil and Structural Engineering</i> , <b>2015</b> , 8, 80-88		
1	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 &amp; Engineering Data</i> , <b>2013</b> , 58, 1418-1419	2.8	