Hwong-Wen

List of Publications by Year
in descending order

63 papers	2,124 citations	186254 28 h-index	243610 44 g-index
63 all docs	63 docs citations	63 times ranked	2448 citing authors

#	Article	IF	Citations
1	Using material/substance flow analysis to support sustainable development assessment: A literature review and outlook. Resources, Conservation and Recycling, 2012, 68, 104-116.	10.8	127
2	Quantifying and reducing uncertainty in life cycle assessment using the Bayesian Monte Carlo method. Science of the Total Environment, 2005, 340, 23-33.	8.0	113
3	A novel sustainable decision making model for municipal solid waste management. Waste Management, 2007, 27, 209-219.	7.4	112
4	A systemic health risk assessment for the chromium cycle in Taiwan. Environment International, 2007, 33, 206-218.	10.0	80
5	Quantifying system uncertainty of life cycle assessment based on Monte Carlo simulation. International Journal of Life Cycle Assessment, 2009, 14, 19-27.	4.7	75
6	Energy security and improvements in the function of diversity indicesâ€"Taiwan energy supply structure case study. Renewable and Sustainable Energy Reviews, 2013, 24, 9-20.	16.4	70
7	MSW management for waste minimization in Taiwan: The last two decades. Waste Management, 2006, 26, 661-667.	7.4	69
8	Analyzing policy impact potential for municipal solid waste management decision-making: A case study of Taiwan. Resources, Conservation and Recycling, 2007, 51, 418-434.	10.8	66
9	An assessment of Taiwanâ€™s energy policy using multi-dimensional energy security indicators. Renewable and Sustainable Energy Reviews, 2013, 17, 301-311.	16.4	66
10	A multidimensional environmental evaluation of packaging materials. Science of the Total Environment, 2004, 324, 161-172.	8.0	62
11	Quantifying potential anthropogenic resources of buildings through hot spot analysis. Resources, Conservation and Recycling, 2018, 133, 10-20.	10.8	62
12	Integrating circular business models and development tools in the circular economy transition process: A firmâ€level framework. Business Strategy and the Environment, 2020, 29, 1887-1898.	14.3	61
13	Waste prevention for sustainable resource and waste management. Journal of Material Cycles and Waste Management, 2017, 19, 1295-1313.	3.0	60
14	Development of a Resin Wafer Electrodeionization Process for Impaired Water Desalination with High Energy Efficiency and Productivity. ACS Sustainable Chemistry and Engineering, 2017, 5, 2942-2948.	6.7	60
15	Balancing the life cycle impacts of notebook computers: Taiwan's experience. Resources, Conservation and Recycling, 2006, 48, 13-25.	10.8	50
16	Effect of fulvic acid on the sorption of Cu and Pb onto Î³-Al2O3. Water Research, 2003, 37, 743-752.	11.3	47
17	The potential of recycling and reusing municipal solid waste incinerator ash in Taiwan. Waste Management, 2006, 26, 979-987.	7.4	44
18	Identification of Pollution Source of Cadmium in Soil. Application of Material Flow Analysis and A Case Study in Taiwan (11 pp). Environmental Science and Pollution Research, 2007, 14, 49-59.	5.3	44

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19	Substance flow analysis for nickel in mainland China in 2009. Journal of Cleaner Production, 2014, 84, 450-458.	9.3	41
20	Identification of the driving force of waste generation using a high-resolution waste inputâ€“output table. Journal of Cleaner Production, 2015, 94, 294-303.	9.3	41
21	Substance flow analysis and assessment of environmental exposure potential for triclosan in mainland China. Science of the Total Environment, 2014, 499, 265-275.	8.0	37
22	Substance Flow Analysis. Journal of Industrial Ecology, 2009, 13, 11-14.	5.5	36
23	Substance flow analysis of zinc cycle and current status of electric arc furnace dust management for zinc recovery in Taiwan. Resources, Conservation and Recycling, 2011, 56, 134-140.	10.8	36
24	Energy-efficient resin wafer electrodeionization for impaired water reclamation. Journal of Cleaner Production, 2018, 174, 1464-1474.	9.3	35
25	An investigation on the potential of metal recovery from the municipal waste incinerator in Taiwan. Waste Management, 2007, 27, 1673-1679.	7.4	32
26	Assessment of water quality management with a systematic qualitative uncertainty analysis. Science of the Total Environment, 2007, 374, 13-25.	8.0	31
27	Socio-economic metabolism of urban construction materials: A case study of the Taipei metropolitan area. Resources, Conservation and Recycling, 2018, 128, 563-571.	10.8	31
28	Site-specific health risk assessment of dioxins and furans in an industrial region with numerous emission sources. Journal of Hazardous Materials, 2007, 145, 471-481.	12.4	30
29	The Copper Balance of Cities. Journal of Industrial Ecology, 2014, 18, 432-444.	5.5	29
30	A novel multiobjective programming approach dealing with qualitative and quantitative objectives for environmental management. Ecological Economics, 2006, 56, 584-593.	5.7	27
31	Using an Industrial Waste Account to Facilitate National Level Industrial Symbioses by Uncovering the Waste Exchange Potential. Journal of Industrial Ecology, 2015, 19, 950-962.	5.5	26
32	Stochastic multimedia risk assessment for a site with contaminated groundwater. Stochastic Environmental Research and Risk Assessment, 2002, 16, 464-478.	4.0	25
33	Oxidation of methyl methacrylate from semiconductor wastewater by O3 and O3/UV processes. Journal of Hazardous Materials, 2007, 147, 307-312.	12.4	25
34	Applying multi-criteria decision-making to improve the waste reduction policy in Taiwan. Waste Management and Research, 2010, 28, 20-28.	3.9	24
35	Trace anthropogenic arsenic in Taiwanâ€”substance flow analysis as a tool for environmental risk management. Journal of Cleaner Production, 2013, 53, 13-21.	9.3	24
36	Analysis of uncertainty in material flow analysis. Journal of Cleaner Production, 2018, 170, 1017-1028.	9.3	24

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37	Improving the integrated hybrid LCA in the upstream scope 3 emissions inventory analysis. International Journal of Life Cycle Assessment, 2013, 18, 17-23.	4.7	23
38	Resource and waste-stream modeling and visualization as decision support tools for sustainable materials management. Journal of Cleaner Production, 2017, 150, 16-25.	9.3	23
39	Transfer of dioxin risk between nine major municipal waste incinerators in Taiwan. Environment International, 2002, 28, 103-110.	10.0	22
40	Life cycle risk assessment of bottom ash reuse. Journal of Hazardous Materials, 2011, 190, 308-316.	12.4	22
41	Assessing the environmental impacts and water consumption of pretreatment and conditioning processes of corn stover hydrolysate liquor in biorefineries. Energy, 2016, 116, 436-444.	8.8	22
42	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
43	Measuring the reduction limit of repeated recycling â€“ a case study of the paper flow system. Journal of Cleaner Production, 2016, 132, 98-107.	9.3	19
44	The Health Risk Assessment of Pb and Cr leachated from fly ash monolith landfill. Journal of Hazardous Materials, 2009, 172, 316-323.	12.4	18
45	Combining the cost of reducing uncertainty with the selection of risk assessment models for remediation decision of site contamination. Journal of Hazardous Materials, 2007, 141, 17-26.	12.4	15
46	Direct and indirect lead-containing waste discharge in the electrical and electronic supply chain. Resources, Conservation and Recycling, 2012, 68, 29-35.	10.8	14
47	Integrating Input Output Analysis with Risk Assessment to Evaluate the Population Risk of Arsenic. Environmental Science & Technology, 2012, 46, 1104-1110.	10.0	13
48	An information system for sustainable materials management with material flow accounting and waste inputâ€“output analysis. Sustainable Environment Research, 2017, 27, 135-145.	4.2	12
49	Application of receptor-specific risk distribution in the arsenic contaminated land management. Journal of Hazardous Materials, 2013, 262, 1080-1090.	12.4	8
50	Identifying the drivers of environmental risk through a model integrating substance flow and inputâ€“output analysis. Ecological Economics, 2014, 107, 94-103.	5.7	8
51	Analysis of strategic environmental assessment in Taiwan energy policy and potential for integration with life cycle assessment. Environmental Impact Assessment Review, 2018, 71, 1-11.	9.2	8
52	Extraction of heavy metals from contaminated soil by Cinnamomum camphora. Ecotoxicology, 2014, 23, 1987-1995.	2.4	7
53	The uncertainty effects of design flow on water quality management. Environmental Monitoring and Assessment, 2008, 144, 81-91.	2.7	6
54	Assessment of the value of reducing uncertainty by sampling in a groundwater remediation system. Science of the Total Environment, 2008, 402, 9-17.	8.0	6

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55	Analysis of Potential Relationships between Functional Analysis and Life Cycle Assessment. Procedia CIRP, 2015, 29, 390-395.	1.9	6
56	Evaluation of Incremental Population and Individual Carcinogenic Risks of PCDD/Fs from Steel and Iron Industry in Taiwan by a Site-specific Health Risk Assessment Method. Aerosol and Air Quality Research, 2011, 11, 716-731.	2.1	6
57	The Green Economy Mirage?. Journal of Industrial Ecology, 2013, 17, 835-845.	5.5	5
58	Integrative Application of Life Cycle Assessment and Risk Assessment to Environmental Impacts of Anthropogenic Pollutants at a Watershed Scale. Bulletin of Environmental Contamination and Toxicology, 2018, 100, 41-48.	2.7	5
59	Development and Application of Dynamic Hybrid Multi-Region Inventory Analysis for Macro-level Environmental Policy Analysis: A Case Study on Climate Policy in Taiwan. Environmental Science & Technology, 2013, 47, 2512-2519.	10.0	4
60	Establishing a quantification process for nexus repercussions to mitigate environmental impacts in a water-energy interdependency network. Resources, Conservation and Recycling, 2021, 171, 105628.	10.8	4
61	Using risk elasticity to prioritize risk reduction strategies for geographical areas and industry sectors. Journal of Hazardous Materials, 2016, 302, 208-216.	12.4	2
62	A streamlined risk screening method for managing reutilization of abandoned factories in Taiwan. Sustainable Environment Research, 2017, 27, 125-134.	4.2	2
63	Twice the effort: Ineffectiveness of selecting air pollution control targets with emission quantity for risk reduction. Environment International, 2019, 125, 489-496.	10.0	1