Kelvin T W Ng

List of Publications by Year
in descending order

57 papers	1,500 citations	236833 25 h-index	345118 36 g-index
59 all docs	59 docs citations	59 times ranked	693 citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of waste characteristics and their impact on GIS vehicle collection route optimization using ANN waste forecasts. Waste Management, 2019, 88, 118-130.	3.7	81
2	Time-lagged effects of weekly climatic and socio-economic factors on ANN municipal yard waste prediction models. Waste Management, 2019, 84, 129-140.	3.7	80
3	Kinetic Interactions of EDDS with Soils. 1. Metal Resorption and Competition under EDDS Deficiency. Environmental Science & Technology, 2009, 43, 831-836.	4.6	75
4	Analysis of input set characteristics and variances on k-fold cross validation for a Recurrent Neural Network model on waste disposal rate estimation. Journal of Environmental Management, 2022, 311, 114869.	3.8	68
5	An integrated multivariate statistical approach for the evaluation of spatial variations in groundwater quality near an unlined landfill. Environmental Science and Pollution Research, 2019, 26, 5724-5737.	2.7	49
6	Empirical modeling of heavy metal extraction by EDDS from single-metal and multi-metal contaminated soils. Chemosphere, 2009, 74, 301-307.	4.2	46
7	Waste disposal characteristics and data variability in a mid-sized Canadian city during COVID-19. Waste Management, 2021, 122, 49-54.	3.7	46
8	Interactions of residential waste composition and collection truck compartment design on GIS route optimization. Waste Management, 2020, 102, 613-623.	3.7	43
9	Parameter interrelationships in a dual phase GIS-based municipal solid waste collection model. Waste Management, 2018, 78, 258-270.	3.7	40
10	A data driven technique applying GIS, and remote sensing to rank locations for waste disposal site expansion. Resources, Conservation and Recycling, 2019, 149, 352-362.	5.3	40
11	Non-hazardous waste generation characteristics and recycling practices in Saskatchewan and Manitoba, Canada. Journal of Material Cycles and Waste Management, 2016, 18, 715-724.	1.6	39
12	Analysis of solid waste management systems in Alberta and British Columbia using provincial comparison. Canadian Journal of Civil Engineering, 2016, 43, 351-360.	0.7	38
13	Identification of behaviour patterns in waste collection and disposal during the first wave of COVID-19 in Regina, Saskatchewan, Canada. Journal of Environmental Management, 2021, 290, 112663.	3.8	37
14	Effects of percent operating expenditure on Canadian non-hazardous waste diversion. Sustainable Cities and Society, 2018, 38, 420-428.	5.1	36
15	Modeling of municipal waste disposal rates during COVID-19 using separated waste fraction models. Science of the Total Environment, 2021, 789, 148024.	3.9	34
16	An investigation on Ontario's non-hazardous municipal solid waste diversion using trend analysis. Canadian Journal of Civil Engineering, 2017, 44, 861-870.	0.7	33
17	Siting and ranking municipal landfill sites in regional scale using nighttime satellite imagery. Journal of Environmental Management, 2020, 256, 109942.	3.8	33
18	The use of waste diversion indices on the analysis of Canadian waste management models. Journal of Material Cycles and Waste Management, 2019, 21, 478-487.	1.6	32

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19	Evaluation of the bias and precision of regression techniques and machine learning approaches in total dissolved solids modeling of an urban aquifer. Environmental Science and Pollution Research, 2019, 26, 1821-1833.	2.7	32
20	Application of a multi-stage neural network approach for time-series landfill gas modeling with missing data imputation. Waste Management, 2020, 116, 66-78.	3.7	31
21	Optimization of first order decay gas generation model parameters for landfills located in cold semi-arid climates. Waste Management, 2017, 69, 315-324.	3.7	30
22	Optimization of waste management regions using recursive Thiessen polygons. Journal of Cleaner Production, 2019, 234, 85-96.	4.6	30
23	Comparison between Canadian and Nova Scotian waste management and diversion models—A Canadian case study. Sustainable Cities and Society, 2017, 30, 139-149.	5.1	29
24	Adsorption of Methylene Blue and Phenol by Wood Waste Derived Activated Carbon. Journal of Environmental Engineering, ASCE, 2008, 134, 338-345.	0.7	28
25	Developing a novel proximity analysis approach for assessment of waste management cost efficiency in low population density regions. Sustainable Cities and Society, 2021, 65, 102583.	5.1	27
26	Use of seasonal parameters and their effects on FOD landfill gas modeling. Environmental Monitoring and Assessment, 2018, 190, 291.	1.3	26
27	Prediction of fugitive landfill gas hotspots using a random forest algorithm and Sentinel-2 data. Sustainable Cities and Society, 2021, 73, 103097.	5.1	26
28	Development and application of an analytical framework for mapping probable illegal dumping sites using nighttime light imagery and various remote sensing indices. Waste Management, 2022, 143, 195-205.	3.7	25
29	Bibliometric and text mining approaches to evaluate landfill design standards. Scientometrics, 2019, 118, 1027-1049.	1.6	24
30	The use of a recurrent neural network model with separated time-series and lagged daily inputs for waste disposal rates modeling during COVID-19. Sustainable Cities and Society, 2021, 75, 103339.	5.1	23
31	Thermal heterogeneity in the proximity of municipal solid waste landfills on forest and agricultural lands. Journal of Environmental Management, 2021, 287, 112320.	3.8	22
32	A New Challenge for the Management and Disposal of Personal Protective Equipment Waste during the COVID-19 Pandemic. Sustainability, 2021, 13, 7034.	1.6	22
33	What have we known so far about microplastics in drinking water treatment? A timely review. Frontiers of Environmental Science and Engineering, 2022, 16, 58.	3.3	21
34	Effects of groundwater metal contaminant spatial distribution on overlaying kriged maps. Environmental Science and Pollution Research, 2019, 26, 22945-22957.	2.7	18
35	An iterative tessellation-based analytical approach to the design and planning of waste management regions. Computers, Environment and Urban Systems, 2021, 88, 101652.	3.3	18
36	Development of a regional solid waste management framework and its application to a prairie province in central Canada. Sustainable Cities and Society, 2022, 82, 103904.	5.1	18

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37	Alternative carbon dioxide modelling approaches accounting for high residual gases in LandGEM. Environmental Science and Pollution Research, 2017, 24, 14322-14336.	2.7	17
38	Quantification of solid waste management system efficiency using input–output indices. Journal of Material Cycles and Waste Management, 2021, 23, 1015-1025.	1.6	17
39	Yard waste prediction from estimated municipal solid waste using the grey theory to achieve a zero-waste strategy. Environmental Science and Pollution Research, 2022, 29, 46859-46874.	2.7	16
40	The role of compactness distribution on the development of regionalized waste management systems. Journal of Cleaner Production, 2021, 296, 126594.	4.6	13
41	Temporal and Spatial Distributions of Waste Facilities and Solid Waste Management Strategies in Rural and Urban Saskatchewan, Canada. Sustainability, 2021, 13, 6887.	1.6	13
42	Renewable Energy Generation by Full-Scale Biomass Gasification System Using Agricultural and Forestal Residues. Practice Periodical of Hazardous, Toxic and Radioactive Waste Management, 2007, 11, 177-183.	0.4	12
43	Meshing Centroidal Voronoi Tessellation with spatial statistics to optimize waste management regions. Journal of Cleaner Production, 2021, 295, 126465.	4.6	12
44	Virtual Methodology for Household Waste Characterization During The Pandemic in An Urban District of Peru: Citizen Science for Waste Management. Environmental Management, 2022, 69, 1078-1090.	1.2	12
45	Mechanical behaviors of a synthetic paste of tire chips and paper sludge in MSW landfill daily cover applications. Canadian Geotechnical Journal, 2007, 44, 928-941.	1.4	11
46	Fines migration from soil daily covers in Hong Kong landfills. Waste Management, 2010, 30, 2047-2057.	3.7	11
47	On the design of sustainable antifouling system for the crossflow filtration of oily water systems: A multicontinuum and CFD investigation of the periodic feed pressure technique. Science of the Total Environment, 2020, 698, 134288.	3.9	10
48	Hospital waste generation during the first wave of COVID-19 pandemic: a case study in Delhi. Environmental Science and Pollution Research, 2022, 29, 50780-50789.	2.7	10
49	Exploring the untapped potential of solar photovoltaic energy at a smart campus: Shadow and cloud analyses. Energy and Environment, 2022, 33, 511-526.	2.7	9
50	Benchmarking Canadian solid waste management system integrating fuzzy analytic hierarchy process (FAHP) with efficacy methods. Environmental Science and Pollution Research, 2022, 29, 51578-51588.	2.7	9
51	Numerical Simulation of Water Quality and Self-Purification in a Mountainous River Using QUAL2KW. Journal of Environmental Informatics, 0, , .	6.0	8
52	Integrating Geographic Information System network analysis and nighttime light satellite imagery to optimize landfill regionalization on a regional level. Environmental Science and Pollution Research, 2022, 29, 81492-81504.	2.7	7
53	Effects of Design Mix and Porosity of Waste-Derived Paste as Landfill Daily Covers on Lead Retardation. Practice Periodical of Hazardous, Toxic and Radioactive Waste Management, 2010, 14, 195-204.	0.4	4
54	Spatial analysis of designated outdoor smoking areas: accessibility and land use. Journal of Environmental Planning and Management, 2021, 64, 689-702.	2.4	3

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55	A System Dynamics Modeling Approach for Estimation of Oily Waste Generation From Marine Oil Spill Response: A Case Study of an Oil Spill in Central Coast of British Columbia. Frontiers in Environmental Science, 0, 10, .	1.5	3
56	Heterogeneous numerical modelling for the auto thermal reforming of crude glycerol in a fixed bed reactor. Chinese Journal of Chemical Engineering, 2022, 42, 261-268.	1.7	1
57	Identification of Critical Barriers for E-Waste Management in an Evolving Economy Using Best Worst Method. , 2022, , 194-208.		0