

# An Liu

## 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.

86

papers

1,479

citations

22

h-index

36

g-index

93

ext. papers

1,886

ext. citations

6

avg, IF

5.11

L-index

#	Paper	IF	Citations
86	A snapshot on trihalomethanes formation in urban stormwater: Implications for its adequacy as an alternative water resource. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107180	6.8	1
85	Investigation on detoxication effects of 2-hydroxypropyl-β-cyclodextrin over two halogenated aromatic DBPs 2,4,6-trichlorophenol and 2,4,6-tribromophenol binding with human serum albumin.. <i>Food Chemistry</i> , <b>2022</b> , 382, 132349	8.5	0
84	Sustainable restoration of anoxic freshwater using environmentally-compatible oxygen-carrying biochar: Performance and mechanisms.. <i>Water Research</i> , <b>2022</b> , 214, 118204	12.5	0
83	Ranking Three Water Sensitive Urban Design (WSUD) Practices Based on Hydraulic and Water Quality Treatment Performance: Implications for Effective Stormwater Treatment Design. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 1296	3	1
82	Integrating Tank Model and adsorption/desorption characteristics of filter media to simulate outflow water quantity and quality of a bioretention basin: A case study of biochar-based bioretention basin.. <i>Journal of Environmental Management</i> , <b>2021</b> , 304, 114282	7.9	1
81	Application of <i>Chlorella pyrenoidosa</i> embedded biochar beads for water treatment. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 40, 101892	6.7	4
80	Designing sustainable drainage systems in subtropical cities: Challenges and opportunities. <i>Journal of Cleaner Production</i> , <b>2021</b> , 280, 124418	10.3	11
79	Influence of the hierarchical structure of land use on metals, nutrients and organochlorine pesticides in urban river sediments. <i>Ecological Engineering</i> , <b>2021</b> , 159, 106123	3.9	6
78	Emerging materials and technologies for landfill leachate treatment: A critical review. <i>Environmental Pollution</i> , <b>2021</b> , 291, 118133	9.3	8
77	Assessing the effect of surface hydrophobicity/hydrophilicity on pollutant leaching potential of biochar in water treatment. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2020</b> , 89, 222-232	6.3	13
76	Quantitative source tracking of heavy metals contained in urban road deposited sediments. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 393, 122362	12.8	35
75	Impact of global warming on urban stormwater quality: From the perspective of an alternative water resource. <i>Journal of Cleaner Production</i> , <b>2020</b> , 262, 121330	10.3	16
74	Developing an equivalent toxicity area approach to comparing toxicity of urban road deposited sediments. <i>Environmental Pollution</i> , <b>2020</b> , 257, 113588	9.3	3
73	Investigating toxicity of urban road deposited sediments using Chinese hamster ovary cells and <i>Chlorella Pyrenoidosa</i> . <i>Chemosphere</i> , <b>2020</b> , 245, 125634	8.4	5
72	Comparison of pollutant source tracking approaches: Heavy metals deposited on urban road surfaces as a case study. <i>Environmental Pollution</i> , <b>2020</b> , 266, 115253	9.3	2
71	Toxicity variability of urban road stormwater during storage processes in Shenzhen, China: Identification of primary toxicity contributors and implications for reuse safety. <i>Science of the Total Environment</i> , <b>2020</b> , 745, 140964	10.2	5
70	A Framework for Stormwater Quality Modelling under the Effects of Climate Change to Enhance Reuse. <i>Sustainability</i> , <b>2020</b> , 12, 10463	3.6	2

69	Factors influencing volatile hydrocarbon pollution in urban areas. <i>Emerging Contaminants</i> , <b>2019</b> , 5, 288-298	9.3	1
68	Creating a hierarchy of hazard control for urban stormwater management. <i>Environmental Pollution</i> , <b>2019</b> , 255, 1132-17	9.3	9
67	Assessment of sources of heavy metals in soil and dust at children's playgrounds in Beijing using GIS and multivariate statistical analysis. <i>Environment International</i> , <b>2019</b> , 124, 320-328	12.9	157
66	Comparative toxicity of organic mixture attached to road deposited sediments: Inadequacy of conventionally using individual pollutants to assess comprehensive hazard effects. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 180, 357-365	7	4
65	Nutrients and metals interactions between water and sediment phases: An urban river case study. <i>Environmental Pollution</i> , <b>2019</b> , 251, 354-362	9.3	25
64	Behaviour of metals in an urban river and the pollution of estuarine environment. <i>Water Research</i> , <b>2019</b> , 164, 1149-11	12.5	17
63	Rethinking hydrocarbons build-up on urban roads: A perspective on volatilisation under global warming scenarios. <i>Environmental Pollution</i> , <b>2019</b> , 252, 950-959	9.3	1
62	Understanding Uncertainty Associated with Stormwater Quality Modelling. <i>SpringerBriefs in Water Science and Technology</i> , <b>2019</b> , 1-13	1.8	1
61	Assessment of Build-up and Wash-off Process Uncertainty and Its Influence on Stormwater Quality Modelling. <i>SpringerBriefs in Water Science and Technology</i> , <b>2019</b> , 25-36	1.8	
60	Case Study Uncertainty Inherent in Metals Build-up and Wash-off Processes. <i>SpringerBriefs in Water Science and Technology</i> , <b>2019</b> , 37-48	1.8	
59	Characterizing petroleum hydrocarbons deposited on road surfaces in urban environments. <i>Science of the Total Environment</i> , <b>2019</b> , 653, 589-596	10.2	17
58	Pollutant Build-up and Wash-off Process Variability. <i>SpringerBriefs in Water Science and Technology</i> , <b>2019</b> , 15-24	1.8	
57	Practical Implications and Recommendations for Future Research. <i>SpringerBriefs in Water Science and Technology</i> , <b>2019</b> , 49-55	1.8	
56	Linking source characterisation and human health risk assessment of metals to rainfall characteristics. <i>Environmental Pollution</i> , <b>2018</b> , 238, 866-873	9.3	16
55	Influence of urbanisation characteristics on the variability of particle-bound heavy metals build-up: A comparative study between China and Australia. <i>Environmental Pollution</i> , <b>2018</b> , 242, 1067-1077	9.3	13
54	Characterizing benzene series (BTEX) pollutants build-up process on urban roads: Implication for the importance of temperature. <i>Environmental Pollution</i> , <b>2018</b> , 242, 596-604	9.3	5
53	Understanding re-distribution of road deposited particle-bound pollutants using a Bayesian Network (BN) approach. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 355, 56-64	12.8	16
52	Modelling benzene series pollutants (BTEX) build-up loads on urban roads and their human health risks: Implications for stormwater reuse safety. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 164, 234-242	7.42	14

51	Influence of Traffic and Land Use on Pollutant Transport Pathways. <i>SpringerBriefs in Water Science and Technology</i> , <b>2018</b> , 27-54	1.8	1
50	Predicting Stormwater Quality Resulting from Traffic Generated Pollutants. <i>SpringerBriefs in Water Science and Technology</i> , <b>2018</b> , 55-69	1.8	1
49	Implications for Engineered Applications and Recommendations for Future Research Directions. <i>SpringerBriefs in Water Science and Technology</i> , <b>2018</b> , 71-75	1.8	
48	Primary Traffic Related Pollutants and Urban Stormwater Quality. <i>SpringerBriefs in Water Science and Technology</i> , <b>2018</b> , 1-16	1.8	
47	Research Program. <i>SpringerBriefs in Water Science and Technology</i> , <b>2018</b> , 17-26	1.8	
46	Understanding benzene series (BTEX) pollutant load characteristics in the urban environment. <i>Science of the Total Environment</i> , <b>2018</b> , 619-620, 938-945	10.2	21
45	Using an innovative flag element ratio approach to tracking potential sources of heavy metals on urban road surfaces. <i>Environmental Pollution</i> , <b>2018</b> , 243, 410-417	9.3	24
44	Heavy metals transport pathways: The importance of atmospheric pollution contributing to stormwater pollution. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 164, 696-703	7	31
43	Ranking the factors influencing polycyclic aromatic hydrocarbons (PAHs) build-up on urban roads. <i>Ecotoxicology and Environmental Safety</i> , <b>2017</b> , 139, 416-422	7	23
42	Hierarchy of factors which influence polycyclic aromatic hydrocarbons (PAHs) distribution in river sediments. <i>Environmental Pollution</i> , <b>2017</b> , 223, 81-89	9.3	21
41	Seeking urbanization security and sustainability: Multi-objective optimization of rainwater harvesting systems in China. <i>Journal of Hydrology</i> , <b>2017</b> , 550, 42-53	6	19
40	Monitoring of a mixed land use catchment for pollutant source characterisation. <i>Environmental Monitoring and Assessment</i> , <b>2017</b> , 189, 336	3.1	6
39	Modelling Resilience of a Water Supply System under Climate Change and Population Growth Impacts. <i>Water Resources Management</i> , <b>2017</b> , 31, 2885-2898	3.7	4
38	Modelling heavy metals build-up on urban road surfaces for effective stormwater reuse strategy implementation. <i>Environmental Pollution</i> , <b>2017</b> , 231, 821-828	9.3	19
37	Stormwater reuse, a viable option: Fact or fiction?. <i>Economic Analysis and Policy</i> , <b>2017</b> , 56, 14-17	3.8	23
36	Influence of land use configurations on river sediment pollution. <i>Environmental Pollution</i> , <b>2017</b> , 229, 639-646	9.3	20
35	Catchment scale assessment of risk posed by traffic generated heavy metals and polycyclic aromatic hydrocarbons. <i>Ecotoxicology and Environmental Safety</i> , <b>2017</b> , 144, 593-600	7	24
34	Characterization of heavy metal desorption from road-deposited sediment under acid rain scenarios. <i>Journal of Environmental Sciences</i> , <b>2017</b> , 51, 284-293	6.4	22

33	Quantitative assessment of human health risk posed by polycyclic aromatic hydrocarbons in urban road dust. <i>Science of the Total Environment</i> , <b>2017</b> , 575, 895-904	10.2	48
32	Assessment and management of human health risk from toxic metals and polycyclic aromatic hydrocarbons in urban stormwater arising from anthropogenic activities and traffic congestion. <i>Science of the Total Environment</i> , <b>2017</b> , 579, 202-211	10.2	31
31	Quantitative assessment of resilience of a water supply system under rainfall reduction due to climate change. <i>Journal of Hydrology</i> , <b>2016</b> , 540, 1043-1052	6	20
30	Taxonomy of factors which influence heavy metal build-up on urban road surfaces. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 310, 20-9	12.8	46
29	Assessing Bioretention Basin Treatment Performance. <i>SpringerBriefs in Water Science and Technology</i> , <b>2016</b> , 39-48	1.8	
28	Assessing Constructed Wetland Treatment Performance. <i>SpringerBriefs in Water Science and Technology</i> , <b>2016</b> , 49-61	1.8	
27	Creating Conceptual Models of Treatment Systems. <i>SpringerBriefs in Water Science and Technology</i> , <b>2016</b> , 15-38	1.8	
26	Implications for Engineering Practice. <i>SpringerBriefs in Water Science and Technology</i> , <b>2016</b> , 63-68	1.8	
25	Storm Water Treatment. <i>SpringerBriefs in Water Science and Technology</i> , <b>2016</b> , 1-14	1.8	
24	Differentiating Between Pollutants Build-Up on Roads and Roofs: Significance of Roofs as a Stormwater Pollutant Source. <i>Clean - Soil, Air, Water</i> , <b>2016</b> , 44, 538-543	1.6	3
23	Selecting rainfall events for effective Water Sensitive Urban Design: A case study in Gold Coast City, Australia. <i>Ecological Engineering</i> , <b>2016</b> , 92, 67-72	3.9	21
22	Human health risk assessment of heavy metals in urban stormwater. <i>Science of the Total Environment</i> , <b>2016</b> , 557-558, 764-72	10.2	105
21	Polycyclic aromatic hydrocarbons associated with road deposited solid and their ecological risk: Implications for road stormwater reuse. <i>Science of the Total Environment</i> , <b>2016</b> , 563-564, 190-8	10.2	17
20	Characterizing polycyclic aromatic hydrocarbon build-up processes on urban road surfaces. <i>Environmental Pollution</i> , <b>2016</b> , 214, 185-193	9.3	11
19	Enhancing the Storm Water Treatment Performance of Constructed Wetlands and Bioretention Basins. <i>SpringerBriefs in Water Science and Technology</i> , <b>2016</b> ,	1.8	2
18	Characterizing stormwater treatment efficiency at the laboratory scale for effective rain garden design. <i>Desalination and Water Treatment</i> , <b>2015</b> , 54, 1334-1343		2
17	Performance characterisation of a stormwater treatment bioretention basin. <i>Journal of Environmental Management</i> , <b>2015</b> , 150, 173-178	7.9	89
16	Development of Prediction Models for Particle Size Composition on Urban Road Surfaces. <i>Applied Mechanics and Materials</i> , <b>2015</b> , 743, 450-457	0.3	

15	Sectional analysis of stormwater treatment performance of a constructed wetland. <i>Ecological Engineering</i> , <b>2015</b> , 77, 172-179	3.9	15
14	Characterizing heavy metal build-up on urban road surfaces: implication for stormwater reuse. <i>Science of the Total Environment</i> , <b>2015</b> , 515-516, 20-9	10.2	63
13	Stormwater Treatment Design. <i>SpringerBriefs in Water Science and Technology</i> , <b>2015</b> , 15-30	1.8	
12	Urbanisation and Stormwater Quality. <i>SpringerBriefs in Water Science and Technology</i> , <b>2015</b> , 1-14	1.8	1
11	Practical Application of Study Outcomes for Stormwater Treatment Design. <i>SpringerBriefs in Water Science and Technology</i> , <b>2015</b> , 51-69	1.8	
10	Implications for Engineering Practice and Identification of New Areas for Knowledge Creation. <i>SpringerBriefs in Water Science and Technology</i> , <b>2015</b> , 71-76	1.8	
9	Understanding the Role of Urban Road Surface Characteristics in influencing Stormwater Quality. <i>Water Resources Management</i> , <b>2014</b> , 28, 5217-5229	3.7	17
8	Sectional analysis of the pollutant wash-off process based on runoff hydrograph. <i>Journal of Environmental Management</i> , <b>2014</b> , 134, 63-9	7.9	23
7	Time as the critical factor in the investigation of the relationship between pollutant wash-off and rainfall characteristics. <i>Ecological Engineering</i> , <b>2014</b> , 64, 301-305	3.9	25
6	Role of Land Use and Seasonal Factors in Water Quality Degradations. <i>Water Resources Management</i> , <b>2013</b> , 27, 3433-3440	3.7	26
5	Characterising nutrients wash-off for effective urban stormwater treatment design. <i>Journal of Environmental Management</i> , <b>2013</b> , 120, 61-7	7.9	51
4	Influence of rainfall and catchment characteristics on urban stormwater quality. <i>Science of the Total Environment</i> , <b>2013</b> , 444, 255-62	10.2	91
3	Taxonomy for rainfall events based on pollutant wash-off potential in urban areas. <i>Ecological Engineering</i> , <b>2012</b> , 47, 110-114	3.9	29
2	Inherent errors in pollutant build-up estimation in considering urban land use as a lumped parameter. <i>Journal of Environmental Quality</i> , <b>2012</b> , 41, 1690-4	3.4	33
1	Inadequacy of Land Use and Impervious Area Fraction for Determining Urban Stormwater Quality. <i>Water Resources Management</i> , <b>2012</b> , 26, 2259-2265	3.7	37