An Liu

List of Publications by Citations

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	Assessment of sources of heavy metals in soil and dust at children's playgrounds in Beijing using GIS and multivariate statistical analysis. *Environment International*, **2019**, 124, 320-328	12.9	157
85	Human health risk assessment of heavy metals in urban stormwater. *Science of the Total Environment*, **2016**, 557-558, 764-72	10.2	105
84	Influence of rainfall and catchment characteristics on urban stormwater quality. *Science of the Total Environment*, **2013**, 444, 255-62	10.2	91
83	Performance characterisation of a stormwater treatment bioretention basin. *Journal of Environmental Management*, **2015**, 150, 173-178	7.9	89
82	Characterizing heavy metal build-up on urban road surfaces: implication for stormwater reuse. *Science of the Total Environment*, **2015**, 515-516, 20-9	10.2	63
81	Characterising nutrients wash-off for effective urban stormwater treatment design. *Journal of Environmental Management*, **2013**, 120, 61-7	7.9	51
80	Quantitative assessment of human health risk posed by polycyclic aromatic hydrocarbons in urban road dust. *Science of the Total Environment*, **2017**, 575, 895-904	10.2	48
79	Taxonomy of factors which influence heavy metal build-up on urban road surfaces. *Journal of Hazardous Materials*, **2016**, 310, 20-9	12.8	46
78	Inadequacy of Land Use and Impervious Area Fraction for Determining Urban Stormwater Quality. *Water Resources Management*, **2012**, 26, 2259-2265	3.7	37
77	Quantitative source tracking of heavy metals contained in urban road deposited sediments. *Journal of Hazardous Materials*, **2020**, 393, 122362	12.8	35
76	Inherent errors in pollutant build-up estimation in considering urban land use as a lumped parameter. *Journal of Environmental Quality*, **2012**, 41, 1690-4	3.4	33
75	Assessment and management of human health risk from toxic metals and polycyclic aromatic hydrocarbons in urban stormwater arising from anthropogenic activities and traffic congestion. *Science of the Total Environment*, **2017**, 579, 202-211	10.2	31
74	Heavy metals transport pathways: The importance of atmospheric pollution contributing to stormwater pollution. *Ecotoxicology and Environmental Safety*, **2018**, 164, 696-703	7	31
73	Taxonomy for rainfall events based on pollutant wash-off potential in urban areas. *Ecological Engineering*, **2012**, 47, 110-114	3.9	29
72	Role of Land Use and Seasonal Factors in Water Quality Degradations. *Water Resources Management*, **2013**, 27, 3433-3440	3.7	26
71	Nutrients and metals interactions between water and sediment phases: An urban river case study. *Environmental Pollution*, **2019**, 251, 354-362	9.3	25
70	Time as the critical factor in the investigation of the relationship between pollutant wash-off and rainfall characteristics. *Ecological Engineering*, **2014**, 64, 301-305	3.9	25

69	Catchment scale assessment of risk posed by traffic generated heavy metals and polycyclic aromatic hydrocarbons. *Ecotoxicology and Environmental Safety*, **2017**, 144, 593-600	7	24
68	Using an innovative flag element ratio approach to tracking potential sources of heavy metals on urban road surfaces. *Environmental Pollution*, **2018**, 243, 410-417	9.3	24
67	Ranking the factors influencing polycyclic aromatic hydrocarbons (PAHs) build-up on urban roads. *Ecotoxicology and Environmental Safety*, **2017**, 139, 416-422	7	23
66	Sectional analysis of the pollutant wash-off process based on runoff hydrograph. *Journal of Environmental Management*, **2014**, 134, 63-9	7.9	23
65	Stormwater reuse, a viable option: Fact or fiction?. *Economic Analysis and Policy*, **2017**, 56, 14-17	3.8	23
64	Characterization of heavy metal desorption from road-deposited sediment under acid rain scenarios. *Journal of Environmental Sciences*, **2017**, 51, 284-293	6.4	22
63	Hierarchy of factors which influence polycyclic aromatic hydrocarbons (PAHs) distribution in river sediments. *Environmental Pollution*, **2017**, 223, 81-89	9.3	21
62	Selecting rainfall events for effective Water Sensitive Urban Design: A case study in Gold Coast City, Australia. *Ecological Engineering*, **2016**, 92, 67-72	3.9	21
61	Understanding benzene series (BTEX) pollutant load characteristics in the urban environment. *Science of the Total Environment*, **2018**, 619-620, 938-945	10.2	21
60	Quantitative assessment of resilience of a water supply system under rainfall reduction due to climate change. *Journal of Hydrology*, **2016**, 540, 1043-1052	6	20
59	Influence of land use configurations on river sediment pollution. *Environmental Pollution*, **2017**, 229, 639-646	9.3	20
58	Seeking urbanization security and sustainability: Multi-objective optimization of rainwater harvesting systems in China. *Journal of Hydrology*, **2017**, 550, 42-53	6	19
57	Modelling heavy metals build-up on urban road surfaces for effective stormwater reuse strategy implementation. *Environmental Pollution*, **2017**, 231, 821-828	9.3	19
56	Behaviour of metals in an urban river and the pollution of estuarine environment. *Water Research*, **2019**, 164, 114911	12.5	17
55	Understanding the Role of Urban Road Surface Characteristics in influencing Stormwater Quality. *Water Resources Management*, **2014**, 28, 5217-5229	3.7	17
54	Polycyclic aromatic hydrocarbons associated with road deposited solid and their ecological risk: Implications for road stormwater reuse. *Science of the Total Environment*, **2016**, 563-564, 190-8	10.2	17
53	Characterizing petroleum hydrocarbons deposited on road surfaces in urban environments. *Science of the Total Environment*, **2019**, 653, 589-596	10.2	17
52	Impact of global warming on urban stormwater quality: From the perspective of an alternative water resource. *Journal of Cleaner Production*, **2020**, 262, 121330	10.3	16

51	Linking source characterisation and human health risk assessment of metals to rainfall characteristics. *Environmental Pollution*, **2018**, 238, 866-873	9.3	16
50	Understanding re-distribution of road deposited particle-bound pollutants using a Bayesian Network (BN) approach. *Journal of Hazardous Materials*, **2018**, 355, 56-64	12.8	16
49	Sectional analysis of stormwater treatment performance of a constructed wetland. *Ecological Engineering*, **2015**, 77, 172-179	3.9	15
48	Modelling benzene series pollutants (BTEX) build-up loads on urban roads and their human health risks: Implications for stormwater reuse safety. *Ecotoxicology and Environmental Safety*, **2018**, 164, 234-242	7	14
47	Assessing the effect of surface hydrophobicity/hydrophilicity on pollutant leaching potential of biochar in water treatment. *Journal of Industrial and Engineering Chemistry*, **2020**, 89, 222-232	6.3	13
46	Influence of urbanisation characteristics on the variability of particle-bound heavy metals build-up: A comparative study between China and Australia. *Environmental Pollution*, **2018**, 242, 1067-1077	9.3	13
45	Characterizing polycyclic aromatic hydrocarbon build-up processes on urban road surfaces. *Environmental Pollution*, **2016**, 214, 185-193	9.3	11
44	Designing sustainable drainage systems in subtropical cities: Challenges and opportunities. *Journal of Cleaner Production*, **2021**, 280, 124418	10.3	11
43	Creating a hierarchy of hazard control for urban stormwater management. *Environmental Pollution*, **2019**, 255, 113217	9.3	9
42	Emerging materials and technologies for landfill leachate treatment: A critical review. *Environmental Pollution*, **2021**, 291, 118133	9.3	8
41	Monitoring of a mixed land use catchment for pollutant source characterisation. *Environmental Monitoring and Assessment*, **2017**, 189, 336	3.1	6
40	Influence of the hierarchical structure of land use on metals, nutrients and organochlorine pesticides in urban river sediments. *Ecological Engineering*, **2021**, 159, 106123	3.9	6
39	Characterizing benzene series (BTEX) pollutants build-up process on urban roads: Implication for the importance of temperature. *Environmental Pollution*, **2018**, 242, 596-604	9.3	5
38	Investigating toxicity of urban road deposited sediments using Chinese hamster ovary cells and Chlorella Pyrenoidosa. *Chemosphere*, **2020**, 245, 125634	8.4	5
37	Toxicity variability of urban road stormwater during storage processes in Shenzhen, China: Identification of primary toxicity contributors and implications for reuse safety. *Science of the Total Environment*, **2020**, 745, 140964	10.2	5
36	Modelling Resilience of a Water Supply System under Climate Change and Population Growth Impacts. *Water Resources Management*, **2017**, 31, 2885-2898	3.7	4
35	Comparative toxicity of organic mixture attached to road deposited sediments: Inadequacy of conventionally using individual pollutants to assess comprehensive hazard effects. *Ecotoxicology and Environmental Safety*, **2019**, 180, 357-365	7	4
34	Application of Chlorella pyrenoidosa embedded biochar beads for water treatment. *Journal of Water Process Engineering*, **2021**, 40, 101892	6.7	4

33	Developing an equivalent toxicity area approach to comparing toxicity of urban road deposited sediments. *Environmental Pollution*, **2020**, 257, 113588	9.3	3
32	Differentiating Between Pollutants Build-Up on Roads and Roofs: Significance of Roofs as a Stormwater Pollutant Source. *Clean - Soil, Air, Water*, **2016**, 44, 538-543	1.6	3
31	Characterizing stormwater treatment efficiency at the laboratory scale for effective rain garden design. *Desalination and Water Treatment*, **2015**, 54, 1334-1343		2
30	Comparison of pollutant source tracking approaches: Heavy metals deposited on urban road surfaces as a case study. *Environmental Pollution*, **2020**, 266, 115253	9.3	2
29	A Framework for Stormwater Quality Modelling under the Effects of Climate Change to Enhance Reuse. *Sustainability*, **2020**, 12, 10463	3.6	2
28	Enhancing the Storm Water Treatment Performance of Constructed Wetlands and Bioretention Basins. *SpringerBriefs in Water Science and Technology*, **2016**,	1.8	2
27	Factors influencing volatile hydrocarbon pollution in urban areas. *Emerging Contaminants*, **2019**, 5, 288-296	3.6	1
26	Rethinking hydrocarbons build-up on urban roads: A perspective on volatilisation under global warming scenarios. *Environmental Pollution*, **2019**, 252, 950-959	9.3	1
25	A snapshot on trihalomethanes formation in urban stormwater: Implications for its adequacy as an alternative water resource. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107180	6.8	1
24	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.. *Journal of Environmental Management*, **2021**, 304, 114282	7.9	1
23	Understanding Uncertainty Associated with Stormwater Quality Modelling. *SpringerBriefs in Water Science and Technology*, **2019**, 1-13	1.8	1
22	Influence of Traffic and Land Use on Pollutant Transport Pathways. *SpringerBriefs in Water Science and Technology*, **2018**, 27-54	1.8	1
21	Predicting Stormwater Quality Resulting from Traffic Generated Pollutants. *SpringerBriefs in Water Science and Technology*, **2018**, 55-69	1.8	1
20	Urbanisation and Stormwater Quality. *SpringerBriefs in Water Science and Technology*, **2015**, 1-14	1.8	1
19	Ranking Three Water Sensitive Urban Design (WSUD) Practices Based on Hydraulic and Water Quality Treatment Performance: Implications for Effective Stormwater Treatment Design. *Water (Switzerland)*, **2022**, 14, 1296	3	1
18	Investigation on detoxication effects of 2-hydroxypropyl-□cyclodextrin over two halogenated aromatic DBPs 2,4,6-trichlorophenol and 2,4,6-tribromophenol binding with human serum albumin.. *Food Chemistry*, **2022**, 382, 132349	8.5	0
17	Sustainable restoration of anoxic freshwater using environmentally-compatible oxygen-carrying biochar: Performance and mechanisms.. *Water Research*, **2022**, 214, 118204	12.5	0
16	Development of Prediction Models for Particle Size Composition on Urban Road Surfaces. *Applied Mechanics and Materials*, **2015**, 743, 450-457	0.3	

15	Assessment of Build-up and Wash-off Process Uncertainty and Its Influence on Stormwater Quality Modelling. *SpringerBriefs in Water Science and Technology*, **2019**, 25-36	1.8
14	Case Study: Uncertainty Inherent in Metals Build-up and Wash-off Processes. *SpringerBriefs in Water Science and Technology*, **2019**, 37-48	1.8
13	Stormwater Treatment Design. *SpringerBriefs in Water Science and Technology*, **2015**, 15-30	1.8
12	Practical Application of Study Outcomes for Stormwater Treatment Design. *SpringerBriefs in Water Science and Technology*, **2015**, 51-69	1.8
11	Implications for Engineering Practice and Identification of New Areas for Knowledge Creation. *SpringerBriefs in Water Science and Technology*, **2015**, 71-76	1.8
10	Assessing Bioretention Basin Treatment Performance. *SpringerBriefs in Water Science and Technology*, **2016**, 39-48	1.8
9	Assessing Constructed Wetland Treatment Performance. *SpringerBriefs in Water Science and Technology*, **2016**, 49-61	1.8
8	Creating Conceptual Models of Treatment Systems. *SpringerBriefs in Water Science and Technology*, **2016**, 15-38	1.8
7	Implications for Engineering Practice. *SpringerBriefs in Water Science and Technology*, **2016**, 63-68	1.8
6	Storm Water Treatment. *SpringerBriefs in Water Science and Technology*, **2016**, 1-14	1.8
5	Implications for Engineered Applications and Recommendations for Future Research Directions. *SpringerBriefs in Water Science and Technology*, **2018**, 71-75	1.8
4	Primary Traffic Related Pollutants and Urban Stormwater Quality. *SpringerBriefs in Water Science and Technology*, **2018**, 1-16	1.8
3	Research Program. *SpringerBriefs in Water Science and Technology*, **2018**, 17-26	1.8
2	Pollutant Build-up and Wash-off Process Variability. *SpringerBriefs in Water Science and Technology*, **2019**, 15-24	1.8
1	Practical Implications and Recommendations for Future Research. *SpringerBriefs in Water Science and Technology*, **2019**, 49-55	1.8