An Liu

List of Publications by Year
in descending order

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89	2,259	201385 27	233125 45
papers	citations	h-index	g-index

93	93	93	2027
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	4.8	262
2	Human health risk assessment of heavy metals in urban stormwater. Science of the Total Environment, 2016, 557-558, 764-772.	3.9	152
3	Influence of rainfall and catchment characteristics on urban stormwater quality. Science of the Total Environment, 2013, 444, 255-262.	3.9	126
4	Performance characterisation of a stormwater treatment bioretention basin. Journal of Environmental Management, 2015, 150, 173-178.	3.8	110
5	Characterizing heavy metal build-up on urban road surfaces: Implication for stormwater reuse. Science of the Total Environment, 2015, 515-516, 20-29.	3.9	79
6	Characterising nutrients wash-off for effective urban stormwater treatment design. Journal of Environmental Management, 2013, 120, 61-67.	3.8	67
7	Quantitative assessment of human health risk posed by polycyclic aromatic hydrocarbons in urban road dust. Science of the Total Environment, 2017, 575, 895-904.	3.9	64
8	Heavy metals transport pathways: The importance of atmospheric pollution contributing to stormwater pollution. Ecotoxicology and Environmental Safety, 2018, 164, 696-703.	2.9	60
9	Quantitative source tracking of heavy metals contained in urban road deposited sediments. Journal of Hazardous Materials, 2020, 393, 122362.	6.5	59
10	Taxonomy of factors which influence heavy metal build-up on urban road surfaces. Journal of Hazardous Materials, 2016, 310, 20-29.	6.5	57
11	Nutrients and metals interactions between water and sediment phases: An urban river case study. Environmental Pollution, 2019, 251, 354-362.	3.7	52
12	Emerging materials and technologies for landfill leachate treatment: A critical review. Environmental Pollution, 2021, 291, 118133.	3.7	52
13	Using an innovative flag element ratio approach to tracking potential sources of heavy metals on urban road surfaces. Environmental Pollution, 2018, 243, 410-417.	3.7	45
14	Inadequacy of Land Use and Impervious Area Fraction for Determining Urban Stormwater Quality. Water Resources Management, 2012, 26, 2259-2265.	1.9	43
15	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.	3.9	41
16	Inherent Errors in Pollutant Buildâ€Up Estimation in Considering Urban Land Use as a Lumped Parameter. Journal of Environmental Quality, 2012, 41, 1690-1694.	1.0	39
17	Behaviour of metals in an urban river and the pollution of estuarine environment. Water Research, 2019, 164, 114911.	5.3	35
18	Taxonomy for rainfall events based on pollutant wash-off potential in urban areas. Ecological Engineering, 2012, 47, 110-114.	1.6	34

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19	Time as the critical factor in the investigation of the relationship between pollutant wash-off and rainfall characteristics. Ecological Engineering, 2014, 64, 301-305.	1.6	33
20	Sectional analysis of the pollutant wash-off process based on runoff hydrograph. Journal of Environmental Management, 2014, 134, 63-69.	3.8	31
21	Stormwater reuse, a viable option: Fact or fiction?. Economic Analysis and Policy, 2017, 56, 14-17.	3.2	31
22	Characterization of heavy metal desorption from road-deposited sediment under acid rain scenarios. Journal of Environmental Sciences, 2017, 51, 284-293.	3.2	31
23	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.	2.9	31
24	Role of Land Use and Seasonal Factors in Water Quality Degradations. Water Resources Management, 2013, 27, 3433-3440.	1.9	30
25	Quantitative assessment of resilience of a water supply system under rainfall reduction due to climate change. Journal of Hydrology, 2016, 540, 1043-1052.	2.3	29
26	Seeking urbanization security and sustainability: Multi-objective optimization of rainwater harvesting systems in China. Journal of Hydrology, 2017, 550, 42-53.	2.3	29
27	Modelling heavy metals build-up on urban road surfaces for effective stormwater reuse strategy implementation. Environmental Pollution, 2017, 231, 821-828.	3.7	29
28	Influence of land use configurations on river sediment pollution. Environmental Pollution, 2017, 229, 639-646.	3.7	29
29	Impact of global warming on urban stormwater quality: From the perspective of an alternative water resource. Journal of Cleaner Production, 2020, 262, 121330.	4.6	29
30	Understanding the Role of Urban Road Surface Characteristics in influencing Stormwater Quality. Water Resources Management, 2014, 28, 5217-5229.	1.9	28
31	Catchment scale assessment of risk posed by traffic generated heavy metals and polycyclic aromatic hydrocarbons. Ecotoxicology and Environmental Safety, 2017, 144, 593-600.	2.9	28
32	Understanding benzene series (BTEX) pollutant load characteristics in the urban environment. Science of the Total Environment, 2018, 619-620, 938-945.	3.9	28
33	Selecting rainfall events for effective Water Sensitive Urban Design: A case study in Gold Coast City, Australia. Ecological Engineering, 2016, 92, 67-72.	1.6	27
34	Characterizing petroleum hydrocarbons deposited on road surfaces in urban environments. Science of the Total Environment, 2019, 653, 589-596.	3.9	27
35	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, 190-198.	3.9	25
36	Ranking the factors influencing polycyclic aromatic hydrocarbons (PAHs) build-up on urban roads. Ecotoxicology and Environmental Safety, 2017, 139, 416-422.	2.9	25

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37	Linking source characterisation and human health risk assessment of metals to rainfall characteristics. Environmental Pollution, 2018, 238, 866-873.	3.7	25
38	Hierarchy of factors which influence polycyclic aromatic hydrocarbons (PAHs) distribution in river sediments. Environmental Pollution, 2017, 223, 81-89.	3.7	24
39	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.	3.7	23
40	Designing sustainable drainage systems in subtropical cities: Challenges and opportunities. Journal of Cleaner Production, 2021, 280, 124418.	4.6	22
41	Understanding re-distribution of road deposited particle-bound pollutants using a Bayesian Network (BN) approach. Journal of Hazardous Materials, 2018, 355, 56-64.	6.5	21
42	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.	2.9	21
43	Sectional analysis of stormwater treatment performance of a constructed wetland. Ecological Engineering, 2015, 77, 172-179.	1.6	18
44	Application of Chlorella pyrenoidosa embedded biochar beads for water treatment. Journal of Water Process Engineering, 2021, 40, 101892.	2.6	17
45	Risk associated with microplastics in urban aquatic environments: A critical review. Journal of Hazardous Materials, 2022, 439, 129587.	6.5	16
46	Characterizing polycyclic aromatic hydrocarbon build-up processes on urban road surfaces. Environmental Pollution, 2016, 214, 185-193.	3.7	15
47	Comparison of pollutant source tracking approaches: Heavy metals deposited on urban road surfaces as a case study. Environmental Pollution, 2020, 266, 115253.	3.7	13
48	Sustainable restoration of anoxic freshwater using environmentally-compatible oxygen-carrying biochar: Performance and mechanisms. Water Research, 2022, 214, 118204.	5.3	13
49	TiO2-biochar composites as alternative photocatalyst for stormwater disinfection. Journal of Water Process Engineering, 2022, 48, 102913.	2.6	12
50	Creating a hierarchy of hazard control for urban stormwater management. Environmental Pollution, 2019, 255, 113217.	3.7	11
51	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.	3.9	11
52	A Framework for Stormwater Quality Modelling under the Effects of Climate Change to Enhance Reuse. Sustainability, 2020, 12, 10463.	1.6	9
53	Characterizing benzene series (BTEX) pollutants build-up process on urban roads: Implication for the importance of temperature. Environmental Pollution, 2018, 242, 596-604.	3.7	8
54	Investigating toxicity of urban road deposited sediments using Chinese hamster ovary cells and Chlorella Pyrenoidosa. Chemosphere, 2020, 245, 125634.	4.2	8

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55	Influence of the hierarchical structure of land use on metals, nutrients and organochlorine pesticides in urban river sediments. Ecological Engineering, 2021, 159, 106123.	1.6	7
56	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, 2022, 304, 114282.	3.8	7
57	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.	3.3	7
58	Monitoring of a mixed land use catchment for pollutant source characterisation. Environmental Monitoring and Assessment, 2017, 189, 336.	1.3	6
59	Modelling Resilience of a Water Supply System under Climate Change and Population Growth Impacts. Water Resources Management, 2017, 31, 2885-2898.	1.9	6
60	Developing an equivalent toxicity area approach to comparing toxicity of urban road deposited sediments. Environmental Pollution, 2020, 257, 113588.	3.7	6
61	Differentiating Between Pollutants Buildâ€Up on Roads and Roofs: Significance of Roofs as a Stormwater Pollutant Source. Clean - Soil, Air, Water, 2016, 44, 538-543.	0.7	5
62	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.	2.9	4
63	Characterizing stormwater treatment efficiency at the laboratory scale for effective rain garden design. Desalination and Water Treatment, 2015, 54, 1334-1343.	1.0	3
64	Rethinking hydrocarbons build-up on urban roads: A perspective on volatilisation under global warming scenarios. Environmental Pollution, 2019, 252, 950-959.	3.7	3
65	Investigation on detoxication effects of 2-hydroxypropyl-Î²-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.	4.2	3
66	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.	1.2	3
67	Factors influencing volatile hydrocarbon pollution in urban areas. Emerging Contaminants, 2019, 5, 288-296.	2.2	2
68	Influence of Traffic and Land Use on Pollutant Transport Pathways. SpringerBriefs in Water Science and Technology, 2018, , 27-54.	0.5	1
69	Predicting Stormwater Quality Resulting from Traffic Generated Pollutants. SpringerBriefs in Water Science and Technology, 2018, , 55-69.	0.5	1
70	Storm Water Treatment. SpringerBriefs in Water Science and Technology, 2016, , 1-14.	0.5	1
71	Understanding Uncertainty Associated with Stormwater Quality Modelling. SpringerBriefs in Water Science and Technology, 2019, , 1-13.	0.5	1
72	Development of Prediction Models for Particle Size Composition on Urban Road Surfaces. Applied Mechanics and Materials, 0, 743, 450-457.	0.2	0

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73	Pollutant Build-up and Wash-off Process Variability. SpringerBriefs in Water Science and Technology, 2019, , 15-24.	0.5	0
74	Practical Implications and Recommendations for Future Research. SpringerBriefs in Water Science and Technology, 2019, , 49-55.	0.5	0
75	Stormwater Treatment Design. SpringerBriefs in Water Science and Technology, 2015, , 15-30.	0.5	0
76	Implications for Engineering Practice and Identification of New Areas for Knowledge Creation. SpringerBriefs in Water Science and Technology, 2015, , 71-76.	0.5	0
77	Assessing Bioretention Basin Treatment Performance. SpringerBriefs in Water Science and Technology, 2016, , 39-48.	0.5	0
78	Assessing Constructed Wetland Treatment Performance. SpringerBriefs in Water Science and Technology, 2016, , 49-61.	0.5	0
79	Creating Conceptual Models of Treatment Systems. SpringerBriefs in Water Science and Technology, 2016, , 15-38.	0.5	0
80	Implications for Engineering Practice. SpringerBriefs in Water Science and Technology, 2016, , 63-68.	0.5	0
81	Assessment of Risk to Human Health from Urban Stormwater Pollution due to Heavy Metals and Polycyclic Aromatic Hydrocarbons. , 2016, , .		0
82	Implications for Engineered Applications and Recommendations for Future Research Directions. SpringerBriefs in Water Science and Technology, 2018, , 71-75.	0.5	0
83	Primary Traffic Related Pollutants and Urban Stormwater Quality. SpringerBriefs in Water Science and Technology, 2018, , 1-16.	0.5	0
84	Research Program. SpringerBriefs in Water Science and Technology, 2018, , 17-26.	0.5	0
85	Temporal and spatial distributions of benzene series pollutants build-up on urban road surfaces. Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering, 2018, 35, 590.	0.1	0
86	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.	0.5	0
87	Case Studyâ€"Uncertainty Inherent in Metals Build-up and Wash-off Processes. SpringerBriefs in Water Science and Technology, 2019, , 37-48.	0.5	0
88	UNCERTAINTIES IN THE ASSESSMENT OF VOLATILE HYDROCARBON POLLUTION OF URBAN STORMWATER. , 2019, , .		0
89	Biotoxicity assessment of in-situ simulated stormwater runoff on typical urban roads in Shenzhen. Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering, 2020, 37, 355-361.	0.1	0