Buddhi Wijesiri

List of Publications by Year
in descending order

49	1,111	331642	414395
papers	citations	21 h-index	32 g-index

52	52	52	998
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Water-sediment interactions and mobility of heavy metals in aquatic environments. Water Research, 2021, 202, 117386.	11.3	114
2	Influential factors on microplastics occurrence in river sediments. Science of the Total Environment, 2020, 738, 139901.	8.0	94
3	Evaluating the relationship between temporal changes in land use and resulting water quality. Environmental Pollution, 2018, 234, 480-486.	7.5	64
4	Process variability of pollutant build-up on urban road surfaces. Science of the Total Environment, 2015, 518-519, 434-440.	8.0	59
5	The synergistic effect of ultrasound power and magnetite incorporation on the sorption/desorption behavior of Cr(VI) and As(V) oxoanions in an aqueous system. Journal of Colloid and Interface Science, 2020, 569, 76-88.	9.4	56
6	Impacts of COVID-19 pandemic on the wastewater pathway into surface water: A review. Science of the Total Environment, 2021, 774, 145586.	8.0	54
7	Nutrients and metals interactions between water and sediment phases: An urban river case study. Environmental Pollution, 2019, 251, 354-362.	7.5	52
8	Emerging materials and technologies for landfill leachate treatment: A critical review. Environmental Pollution, 2021, 291, 118133.	7.5	52
9	Influence of pollutant build-up on variability in wash-off from urban road surfaces. Science of the Total Environment, 2015, 527-528, 344-350.	8.0	45
10	Understanding the uncertainty associated with particle-bound pollutant build-up and wash-off: A critical review. Water Research, 2016, 101, 582-596.	11.3	44
11	Behaviour of metals in an urban river and the pollution of estuarine environment. Water Research, 2019, 164, 114911.	11.3	35
12	Source quantification and risk assessment as a foundation for risk management of metals in urban road deposited solids. Journal of Hazardous Materials, 2021, 408, 124912.	12.4	32
13	Assessing uncertainty in pollutant build-up and wash-off processes. Environmental Pollution, 2016, 212, 48-56.	7.5	31
14	Influence of uncertainty inherent to heavy metal build-up and wash-off on stormwater quality. Water Research, 2016, 91, 264-276.	11.3	29
15	Assessing mercury pollution in Amazon River tributaries using a Bayesian Network approach. Ecotoxicology and Environmental Safety, 2018, 166, 354-358.	6.0	29
16	Impact of global warming on urban stormwater quality: From the perspective of an alternative water resource. Journal of Cleaner Production, 2020, 262, 121330.	9.3	29
17	Use of surrogate indicators for the evaluation of potential health risks due to poor urban water quality: A Bayesian Network approach. Environmental Pollution, 2018, 233, 655-661.	7.5	26
18	Incorporating process variability into stormwater quality modelling. Science of the Total Environment, 2015, 533, 454-461.	8.0	25

#	Article	IF	Citations
19	Re-thinking classical mechanistic model for pollutant build-up on urban impervious surfaces. Science of the Total Environment, 2019, 651, 114-121.	8.0	24
20	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.	7.5	23
21	Assessing uncertainty in stormwater quality modelling. Water Research, 2016, 103, 10-20.	11.3	21
22	Understanding re-distribution of road deposited particle-bound pollutants using a Bayesian Network (BN) approach. Journal of Hazardous Materials, 2018, 355, 56-64.	12.4	21
23	Influence of traffic on build-up of polycyclic aromatic hydrocarbons on urban road surfaces: A Bayesian network modelling approach. Environmental Pollution, 2018, 237, 767-774.	7.5	19
24	Nitrate-dependent Uranium mobilisation in groundwater. Science of the Total Environment, 2019, 693, 133655.	8.0	19
25	Role of adsorption behavior on metal build-up in urban road dust. Journal of Environmental Sciences, 2019, 83, 85-95.	6.1	16
26	Risk associated with microplastics in urban aquatic environments: A critical review. Journal of Hazardous Materials, 2022, 439, 129587.	12.4	16
27	Kinetic modelling and performance evaluation of vertical subsurface flow constructed wetlands in tropics. Journal of Water Process Engineering, 2020, 38, 101539.	5.6	14
28	Fees and governance: Towards sustainability in water resources management at schools in post-apartheid South Africa. Sustainable Cities and Society, 2019, 51, 101694.	10.4	10
29	A Framework for Stormwater Quality Modelling under the Effects of Climate Change to Enhance Reuse. Sustainability, 2020, 12, 10463.	3.2	9
30	Water and Soil Pollution Implications of Road Traffic. Issues in Environmental Science and Technology, 0, , 86-106.	0.4	8
31	Particulate matter exchange between atmosphere and roads surfaces in urban areas. Journal of Environmental Sciences, 2020, 98, 118-123.	6.1	7
32	Influence of the hierarchical structure of land use on metals, nutrients and organochlorine pesticides in urban river sediments. Ecological Engineering, 2021, 159, 106123.	3.6	7
33	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.	7.8	7
34	How gender disparities in urban and rural areas influence access to safe drinking water. Utilities Policy, 2021, 68, 101141.	4.0	5
35	Biosorption of heavy metals: Transferability between batch and column studies. Chemosphere, 2022, 294, 133659.	8.2	5
36	Rethinking hydrocarbons build-up on urban roads: A perspective on volatilisation under global warming scenarios. Environmental Pollution, 2019, 252, 950-959.	7.5	3

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37	Factors influencing volatile hydrocarbon pollution in urban areas. Emerging Contaminants, 2019, 5, 288-296.	4.9	2
38	Urban Water Quality. Applied Environmental Science and Engineering for A Sustainable Future, 2019, , 49-68.	0.5	2
39	Understanding Uncertainty Associated with Stormwater Quality Modelling. SpringerBriefs in Water Science and Technology, 2019, , 1-13.	1.2	1
40	Assessment of Human Health Risks from Metals in Urban Stormwater Based on Geochemical Fractionation and Bioavailability. SpringerBriefs in Water Science and Technology, 2020, , 33-43.	1.2	1
41	Pollutant Build-up and Wash-off Process Variability. SpringerBriefs in Water Science and Technology, 2019, , 15-24.	1.2	0
42	Practical Implications and Recommendations for Future Research. SpringerBriefs in Water Science and Technology, 2019, , 49-55.	1.2	0
43	Transformation Processes of Metals in Urban Road Dust. SpringerBriefs in Water Science and Technology, 2020, , .	1.2	0
44	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.	1.2	0
45	Case Studyâ€"Uncertainty Inherent in Metals Build-up and Wash-off Processes. SpringerBriefs in Water Science and Technology, 2019, , 37-48.	1.2	0
46	UNCERTAINTIES IN THE ASSESSMENT OF VOLATILE HYDROCARBON POLLUTION OF URBAN STORMWATER. , 2019, , .		0
47	Metals in the Urban Stormwater Environment. SpringerBriefs in Water Science and Technology, 2020, , 1-10.	1.2	0
48	Research Design for Investigating Metal Transformations on Urban Roads. SpringerBriefs in Water Science and Technology, 2020, , 11-20.	1.2	0
49	Practical Implications and Recommendation for Future Research. SpringerBriefs in Water Science and Technology, 2020, , 45-48.	1.2	0