Xuan Li

List of Publications by Year
in descending order

30 papers	1,188 citations	331259 21 h-index	454577 30 g-index
31 all docs	31 docs citations	31 times ranked	944 citing authors

#	Article	IF	Citations
1	Uncertainties in estimating SARS-CoV-2 prevalence by wastewater-based epidemiology. Chemical Engineering Journal, 2021, 415, 129039.	6.6	133
2	Improving wastewater management using free nitrous acid (FNA). Water Research, 2020, 171, 115382.	5.3	111
3	The Ecology of Acidophilic Microorganisms in the Corroding Concrete Sewer Environment. Frontiers in Microbiology, 2017, 8, 683.	1.5	78
4	SARS-CoV-2 and other pathogens in municipal wastewater, landfill leachate, and solid waste: A review about virus surveillance, infectivity, and inactivation. Environmental Research, 2022, 203, 111839.	3.7	75
5	Semi-continuous anaerobic digestion of secondary sludge with free ammonia pretreatment: Focusing on volatile solids destruction, dewaterability, pathogen removal and its implications. Water Research, 2021, 202, 117481.	5.3	68
6	The rapid chemically induced corrosion of concrete sewers at high H2S concentration. Water Research, 2019, 162, 95-104.	5.3	55
7	Data-driven estimation of COVID-19 community prevalence through wastewater-based epidemiology. Science of the Total Environment, 2021, 789, 147947.	3.9	54
8	Artificial neural network-based estimation of COVID-19 case numbers and effective reproduction rate using wastewater-based epidemiology. Water Research, 2022, 218, 118451.	5.3	52
9	Evaluation of data-driven models for predicting the service life of concrete sewer pipes subjected to corrosion. Journal of Environmental Management, 2019, 234, 431-439.	3.8	47
10	Distinct microbially induced concrete corrosion at the tidal region of reinforced concrete sewers. Water Research, 2019, 150, 392-402.	5.3	43
11	Enhanced anaerobic digestion of primary sludge with additives: Performance and mechanisms. Bioresource Technology, 2020, 316, 123970.	4.8	40
12	Advancements in detection and removal of antibiotic resistance genes in sludge digestion: A state-of-art review. Bioresource Technology, 2022, 344, 126197.	4.8	40
13	Corrosion of reinforcing steel in concrete sewers. Science of the Total Environment, 2019, 649, 739-748.	3.9	35
14	Microplastics deteriorate the removal efficiency of antibiotic resistance genes during aerobic sludge digestion. Science of the Total Environment, 2021, 798, 149344.	3.9	34
15	SARS-CoV-2 shedding sources in wastewater and implications for wastewater-based epidemiology. Journal of Hazardous Materials, 2022, 432, 128667.	6.5	34
16	Increased Resistance of Nitrite-Admixed Concrete to Microbially Induced Corrosion in Real Sewers. Environmental Science & Technology, 2020, 54, 2323-2333.	4.6	33
17	Removal of Pharmaceuticals and Illicit Drugs from Wastewater Due to Ferric Dosing in Sewers. Environmental Science & Technology, 2019, 53, 6245-6254.	4.6	27
18	Nitrite admixed concrete for wastewater structures: Mechanical properties, leaching behavior and biofilm development. Construction and Building Materials, 2020, 233, 117341.	3.2	27

#	Article	IF	Citations
19	A novel granular sludge-based and highly corrosion-resistant bio-concrete in sewers. Science of the Total Environment, 2021, 791, 148270.	3.9	27
20	Enhanced decay of coronaviruses in sewers with domestic wastewater. Science of the Total Environment, 2022, 813, 151919.	3.9	27
21	Free ammonia pretreatment enhances the removal of antibiotic resistance genes in anaerobic sludge digestion. Chemosphere, 2021, 279, 130910.	4.2	26
22	Self-healing bioconcrete based on non-axenic granules: A potential solution for concrete wastewater infrastructure. Journal of Water Process Engineering, 2021, 42, 102139.	2.6	23
23	Assessing the removal of organic micropollutants from wastewater by discharging drinking water sludge to sewers. Water Research, 2020, 181, 115945.	5.3	22
24	Molecular Methods for Pathogenic Bacteria Detection and Recent Advances in Wastewater Analysis. Water (Switzerland), 2021, 13, 3551.	1.2	18
25	Synergistic effect on concrete corrosion control in sewer environment achieved by applying surface washing on calcium nitrite admixed concrete. Construction and Building Materials, 2021, 302, 124184.	3.2	11
26	Successful application of wastewater-based epidemiology in prediction and monitoring of the second wave of COVID-19 with fragmented sewerage systemsâ€"a case study of Jaipur (India). Environmental Monitoring and Assessment, 2022, 194, 342.	1.3	11
27	Co-digestion of primary sewage sludge with drinking water treatment sludge: A comprehensive evaluation of benefits. Bioresource Technology, 2021, 330, 124994.	4.8	10
28	Analytical performance comparison of four SARS-CoV-2 RT-qPCR primer-probe sets for wastewater samples. Science of the Total Environment, 2022, 806, 150572.	3.9	10
29	Corrosion mitigation by nitrite spray on corroded concrete in a real sewer system. Science of the Total Environment, 2022, 806, 151328.	3.9	10
30	Improved stormwater management through the combination of the conventional water sensitive urban design and stormwater pipeline network. Chemical Engineering Research and Design, 2022, 159, 1164-1173.	2.7	7