

Jie Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

404
citations

759233

12
h-index

996975

15
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21
all docs

21
docs citations

21
times ranked

369
citing authors

#	ARTICLE	IF	CITATIONS
1	Developments in computational fluid dynamics-based modeling for disinfection technologies over the last two decades: A review. <i>Environmental Modelling and Software</i> , 2014, 58, 71-85.	4.5	67
2	Evaluating hydraulic and disinfection efficiencies of a full-scale ozone contactor using a RANS-based modeling framework. <i>Water Research</i> , 2014, 52, 155-167.	11.3	52
3	Environmental and economic sustainability of ion exchange drinking water treatment for organics removal. <i>Journal of Cleaner Production</i> , 2015, 104, 413-421.	9.3	52
4	Reynolds-Averaged Navier-Stokes Simulation of the Flow and Tracer Transport in a Multichambered Ozone Contactor. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 450-454.	1.4	31
5	Taenia eggs in a stabilization pond system with poor hydraulics: concern for human cysticercosis?. <i>Water Science and Technology</i> , 2013, 68, 2698-2703.	2.5	27
6	Impact of sludge layer geometry on the hydraulic performance of a waste stabilization pond. <i>Water Research</i> , 2016, 99, 253-262.	11.3	27
7	Hydraulic Efficiency in RANS of the Flow in Multichambered Contactors. <i>Journal of Hydraulic Engineering</i> , 2013, 139, 1150-1157.	1.5	26
8	Indicators for technological, environmental and economic sustainability of ozone contactors. <i>Water Research</i> , 2016, 101, 606-616.	11.3	26
9	Use of physical and biological process models to understand the performance of tubular anaerobic digesters. <i>Biochemical Engineering Journal</i> , 2016, 107, 35-44.	3.6	25
10	Development and validation of a novel modeling framework integrating ion exchange and resin regeneration for water treatment. <i>Water Research</i> , 2015, 84, 255-265.	11.3	18
11	Evaluation of Large Eddy Simulation and RANS for Determining Hydraulic Performance of Disinfection Systems for Water Treatment. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2014, 136, .	1.5	17
12	Impacts of Flow and Tracer Release Unsteadiness on Tracer Analysis of Water and Wastewater Treatment Facilities. <i>Journal of Hydraulic Engineering</i> , 2019, 145, .	1.5	16
13	Rapid Analysis of Disinfection Efficiency Through Computational Fluid Dynamics. <i>Journal - American Water Works Association</i> , 2016, 108, .	0.3	7
14	Evaluating reactor hydraulics in a cost-effective and environmental-friendly way: Numerical tracer study. <i>AWWA Water Science</i> , 2019, 1, e1163.	2.1	5
15	Extent, capacity and possibilities of computational fluid dynamics as a design tool for pump intakes: a review. <i>Water Science and Technology: Water Supply</i> , 2018, 18, 1518-1530.	2.1	3
16	Rapid Analysis of Effluent Water Quality in Activated Sludge Systems Using Computational Fluid Dynamics. , 2017, , .		2
17	Approaches for estimating mixing time in a water storage tank. <i>Water Science and Technology: Water Supply</i> , 0, , .	2.1	2
18	Residence Time Analysis and Unsteady Flow Effects in an Oxidation Ditch. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
19	Impact of Sludge Layer Geometry on the Hydraulic Performance of a Waste Stabilization Pond. , 2016, , .		0
20	Improving the Hydraulic Performance of a Waste Stabilization Pond via Inlet Retrofit. , 2017, , .		0
21	Emerging Applications of Computational Fluid Dynamics in Water Treatment. Journal of Environmental Engineering, ASCE, 2020, 146, 02020003.	1.4	0