Fangda Cui

List of Publications by Year
in descending order

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29 papers	334 citations	758635 12 h-index	839053 18 g-index
29 all docs	29 docs citations	29 times ranked	298 citing authors

#	Article	IF	Citations
1	Impact of a jet orifice on the hydrodynamics and the oil droplet size distribution. International Journal of Multiphase Flow, 2022, 147, 103921.	1.6	5
2	Computational and experimental study of an oil jet in crossflow: coupling population balance model with multifluid large eddy simulation. Journal of Fluid Mechanics, 2022, 932, .	1.4	4
3	Transport of oil droplets from a jet in crossflow: Dispersion coefficients and Vortex trapping. Ocean Modelling, 2021, 158, 101736.	1.0	9
4	Dispersion of Oil Droplets in Rivers. Journal of Hydraulic Engineering, 2021, 147, .	0.7	3
5	Transport and Fate of Virus-Laden Particles in a Supermarket: Recommendations for Risk Reduction of COVID-19 Spreading. Journal of Environmental Engineering, ASCE, 2021, 147, .	0.7	12
6	Transport and Formation of OPAs in Rivers. Journal of Environmental Engineering, ASCE, 2021, 147, .	0.7	4
7	Large eddy simulation and experiment of shear breakup in liquid-liquid jet: Formation of ligaments and droplets. International Journal of Heat and Fluid Flow, 2021, 89, 108810.	1.1	9
8	Simulation of vertical dispersion of oil droplets by Langmuir supercells through a Reynolds-averaged Eulerian formulation combined with Lagrangian particle tracking. Ocean Engineering, 2021, 235, 109043.	1.9	2
9	Experimental Investigation of Oil Droplet Size Distribution in Underwater Oil and Oil-Air Jet. Marine Technology Society Journal, 2021, 55, 196-209.	0.3	6
10	Experimental and Computational Study of Oil Jet in Crossflow. International Oil Spill Conference Proceedings, 2021, 2021, .	0.1	0
11	Oil droplets dispersion under a deep-water plunging breaker: Experimental measurements and numerical modeling. International Oil Spill Conference Proceedings, 2021, 2021, .	0.1	0
12	Modeling and optimization of solar thermal-photovoltaic vacuum membrane distillation system by response surface methodology. Solar Energy, 2020, 195, 230-238.	2.9	38
13	Modeling oil dispersion under breaking waves. Part II:ÂCoupling Lagrangian particle tracking with population balance model. Environmental Fluid Mechanics, 2020, 20, 1553-1578.	0.7	12
14	Modeling oil dispersion under breaking waves.ÂPart I:ÂWave hydrodynamics. Environmental Fluid Mechanics, 2020, 20, 1527-1551.	0.7	14
15	Hydrodynamics and dilution of an oil jet in crossflow: The role of small-scale motions from laboratory experiment and large eddy simulations. International Journal of Heat and Fluid Flow, 2020, 85, 108634.	1.1	13
16	Numerical Study of Solute Transport in Heterogeneous Beach Aquifers Subjected to Tides. Water Resources Research, 2020, 56, e2019WR026430.	1.7	27
17	Oil Droplet Dispersion under a Deep-Water Plunging Breaker: Experimental Measurement and Numerical Modeling. Journal of Marine Science and Engineering, 2020, 8, 230.	1.2	15
18	Computation of the Mixing Energy in Rivers for Oil Dispersion. Journal of Environmental Engineering, ASCE, 2019, 145, .	0.7	6

#	Article	IF	Citations
19	A thermodynamic framework for the modeling of crystallizable triple shape memory polymers. International Journal of Engineering Science, 2019, 134, 1-30.	2.7	25
20	Oil Droplets Transport Under a Deepâ€Water Plunging Breaker: Impact of Droplet Inertia. Journal of Geophysical Research: Oceans, 2018, 123, 9082-9100.	1.0	19
21	On the transport and modeling of dispersed oil under ice. Marine Pollution Bulletin, 2018, 135, 569-580.	2.3	19
22	Numerical modeling of subsurface release and fate of benzene and toluene in coastal aquifers subjected to tides. Journal of Hydrology, 2017, 551, 793-803.	2.3	30
23	An oil spill decision matrix in response to surface spills of various bitumen blends. Environmental Sciences: Processes and Impacts, 2017, 19, 928-938.	1.7	15
24	Modeling the mechanical behavior of crystallizable shape memory polymers: incorporating temperature-dependent viscoelasticity. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2017, 9, 21-29.	0.7	5
25	A finite element method for light activated shapeâ€memory polymers. International Journal for Numerical Methods in Engineering, 2017, 111, 447-473.	1.5	10
26	Modeling the Viscoelastic Behavior of Amorphous Shape Memory Polymers at an Elevated Temperature. Fluids, 2016, 1, 15.	0.8	6
27	Constitutive modeling of the mechanics associated with triple shape memory polymers. International Journal of Engineering Science, 2015, 96, 86-110.	2.7	26
28	Modeling the Circular Shear in Light Activated Shape Memory Polymers With Three Networks. , 2013, , .		0
29	Application of a Constitutive Modeling for Light Activated Shape Memory Polymer to Circular Shear. , 2012, , .		0