

Yu Duan

List of Publications by Year in descending order

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17
papers

184
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1162367

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docs citations

17
times ranked

131
citing authors

#	ARTICLE	IF	CITATIONS
1	A Bayesian machine learning approach for inverse prediction of high-performance concrete ingredients with targeted performance. <i>Construction and Building Materials</i> , 2021, 270, 121424.	3.2	32
2	Coupling machine learning with thermodynamic modelling to develop a composition-property model for alkali-activated materials. <i>Composites Part B: Engineering</i> , 2021, 216, 108801.	5.9	29
3	Breakdown of Ergodicity and Self-Averaging in Polar Flocks with Quenched Disorder. <i>Physical Review Letters</i> , 2021, 126, 178001.	2.9	22
4	Using a Gaussian process regression inspired method to measure agreement between the experiment and CFD simulations. <i>International Journal of Heat and Fluid Flow</i> , 2019, 80, 108497.	1.1	20
5	An assessment of eddy viscosity models on predicting performance parameters of valves. <i>Nuclear Engineering and Design</i> , 2019, 342, 60-77.	0.8	17
6	Large eddy simulation of a buoyancy-aided flow in a non-uniform channel “ Buoyancy effects on large flow structures. <i>Nuclear Engineering and Design</i> , 2017, 312, 191-204.	0.8	13
7	A computational fluid dynamics (CFD) analysis of fluid excitations on the spindle in a high-pressure valve. <i>International Journal of Pressure Vessels and Piping</i> , 2019, 175, 103922.	1.2	13
8	A spatially-varying relaxation parameter Lattice Boltzmann Method (SVRP-LBM) for predicting the effective thermal conductivity of composite material. <i>Computational Materials Science</i> , 2019, 169, 109080.	1.4	10
9	Large Eddy Simulation Study on Forced Convection Heat Transfer to Water at Supercritical Pressure in a Trapezoid Annulus. <i>Journal of Nuclear Engineering and Radiation Science</i> , 2018, 4, .	0.2	6
10	Analysis of the horizontal flow in the advanced gas-cooled reactor. <i>Nuclear Engineering and Design</i> , 2014, 272, 53-64.	0.8	5
11	The effect of inlet flow conditions upon thermal mixing and conjugate heat transfer within the wall of a T-junction. <i>Nuclear Engineering and Design</i> , 2021, 385, 111484.	0.8	5
12	Heat transfer of a buoyancy-aided turbulent flow in a trapezoidal annulus. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 211-224.	2.5	4
13	Fixed inducing points online Bayesian calibration for computer models with an application to a scale-resolving CFD simulation. <i>Journal of Computational Physics</i> , 2021, 434, 110243.	1.9	3
14	Quantification of the uncertainty within a SAS-SST simulation caused by the unknown high-wavenumber damping factor. <i>Nuclear Engineering and Design</i> , 2021, 381, 111307.	0.8	2
15	Assessments of Different Turbulence Models in Predicting the Performance of a Butterfly Valve. , 2018, , .		1
16	A Validation of CFD Methods on Predicting Valve Performance Parameters. , 2018, , .		1
17	Non-intrusive semi-analytical uncertainty quantification using Bayesian quadrature with application to CFD simulations. <i>International Journal of Heat and Fluid Flow</i> , 2022, 93, 108917.	1.1	1