Yu Duan

List of Publications by Year
in descending order

17	184	1162367 8	1125271 13
papers	citations	h-index	g-index

17	17	17	131
all docs	docs citations	times ranked	citing authors

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