Dominique Laurence

List of Publications by Year
in descending order

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23	1,130	516710 16	752698 20
papers	citations	h-index	g-index

23	23	23	857
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Accuracy and stability in incompressible SPH (ISPH) based on the projection method and a new approach. Journal of Computational Physics, 2009, 228, 6703-6725.	3.8	532
2	Large eddy simulation of turbulent flow for wall mounted cantilever cylinders of aspect ratio 6 and 10. International Journal of Heat and Fluid Flow, 2007, 28, 561-574.	2.4	70
3	Stochastic modelling of aerosol deposition for LES of 90Â° bend turbulent flow. International Journal of Heat and Fluid Flow, 2008, 29, 1010-1028.	2.4	52
4	Turbulent heat transfer predictions using the â€“f model on unstructured meshes. International Journal of Heat and Fluid Flow, 2000, 21, 320-328.	2.4	48
5	Inhomogeneity and anisotropy effects on the redistribution term in Reynolds-averaged Navierâ€“Stokes modelling. Journal of Fluid Mechanics, 2001, 438, 307-338.	3.4	48
6	DNS of turbulent channel flow with conjugate heat transfer: Effect of thermal boundary conditions on the second moments and budgets. International Journal of Heat and Fluid Flow, 2015, 55, 34-44.	2.4	45
7	Proper orthogonal decomposition and dynamic mode decomposition of jet in channel crossflow. Nuclear Engineering and Design, 2019, 344, 54-68.	1.7	41
8	Turbulence Models and Large Eddy Simulations Applied to Ascending Mixed Convection Flows. Flow, Turbulence and Combustion, 2012, 89, 407-434.	2.6	33
9	Flow over a flat plate with uniform inlet and incident coherent gusts. Journal of Fluid Mechanics, 2013, 720, 457-485.	3.4	33
10	Synthetic turbulent inflow conditions based on a vortex method for large-eddy simulation. Progress in Computational Fluid Dynamics, 2006, 6, 50.	0.2	32
11	Heavy particle dispersion from a point source in turbulent pipe flow. International Journal of Multiphase Flow, 2008, 34, 916-923.	3.4	29
12	Thermal-hydraulic study of a wire spacer fuel assembly. Nuclear Engineering and Design, 2012, 243, 251-262.	1.7	29
13	Direct simulation of conjugate heat transfer of jet in channel crossflow. International Journal of Heat and Mass Transfer, 2017, 110, 193-208.	4.8	28
14	Direct numerical simulation of a low momentum round jet in channel crossflow. Nuclear Engineering and Design, 2017, 313, 273-284.	1.7	26
15	Development of a Two-velocities Hybrid RANS-LES Model and its Application to a Trailing Edge Flow. Flow, Turbulence and Combustion, 2010, 85, 181-197.	2.6	22
16	On the discontinuity of the dissipation rate associated with the temperature variance at the fluid-solid interface for cases with conjugate heat transfer. International Journal of Heat and Mass Transfer, 2017, 111, 321-328.	4.8	22
17	Quasi-DNS of natural convection flow in a cylindrical annuli with an optimal polyhedral mesh refinement. Computers and Fluids, 2015, 118, 44-52.	2.5	16
18	A dual-mesh hybrid RANS-LES simulation of the buoyant flow in a differentially heated square cavity with an improved resolution criterion. Computers and Fluids, 2021, 224, 104949.	2.5	11

#	Article	IF	Citations
19	Adaptive Wall Functions for an Elliptic Blending Eddy Viscosity Model Applicable to Any Mesh Topology. Flow, Turbulence and Combustion, 2015, 94, 817-842.	2.6	7
20	A dual-mesh hybrid Reynolds-averaged Navier-Stokes/Large eddy simulation study of the buoyant flow between coaxial cylinders. Nuclear Engineering and Design, 2022, 393, 111789.	1.7	5
21	Comparison of Large Eddy Simulation and Experimental Results of the Flow Around a Forward-Backward Facing Step. , 2002, , 1107.		1
22	Ã‰coulement en eau peu profonde autour d'un modÃ¨le d'Ã®le conique. Revue Europeenne Des Elements, 2003, 12, 361-371.	0.1	0
23	Stochastic Large Eddy Simulation of Bluff-Body Two-Way-Coupled Gas-Particle Turbulent Flow. , 2011, , .		0