George Ilhwan Park

List of Publications by Year
in descending order

15 papers	**938** citations	758635 **12** h-index	1058022 **14** g-index
15 all docs	**15** docs citations	**15** times ranked	**473** citing authors

#	Article	IF	Citations
1	Wall-Modeled Large-Eddy Simulation for Complex Turbulent Flows. Annual Review of Fluid Mechanics, 2018, 50, 535-561.	10.8	322
2	An improved dynamic non-equilibrium wall-model for large eddy simulation. Physics of Fluids, 2014, 26, .	1.6	147
3	Log-layer mismatch and modeling of the fluctuating wall stress in wall-modeled large-eddy simulations. Physical Review Fluids, 2017, 2, .	1.0	103
4	Wall-Modeled Large-Eddy Simulation of a High Reynolds Number Separating and Reattaching Flow. AIAA Journal, 2017, 55, 3709-3721.	1.5	58
5	Constant-energetics physical-space forcing methods for improved convergence to homogeneous-isotropic turbulence with application to particle-laden flows. Physics of Fluids, 2016, 28, .	1.6	46
6	Numerical aspects and implementation of a two-layer zonal wall model for LES of compressible turbulent flows on unstructured meshes. Journal of Computational Physics, 2016, 305, 589-603.	1.9	46
7	Large eddy simulation of aircraft at affordable cost: a milestone in computational fluid dynamics. Flow, 2021, 1, .	1.0	42
8	Space-time characteristics of wall-pressure and wall shear-stress fluctuations in wall-modeled large eddy simulation. Physical Review Fluids, 2016, 1, .	1.0	41
9	A simple dynamic subgrid-scale model for LES of particle-laden turbulence. Physical Review Fluids, 2017, 2, .	1.0	37
10	Non-equilibrium three-dimensional boundary layers at moderate Reynolds numbers. Journal of Fluid Mechanics, 2020, 883, .	1.4	34
11	Boundary layer turbulence in transitional and developed states. Physics of Fluids, 2012, 24, .	1.6	31
12	Wall-Modeling in Complex Turbulent Flows. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2016, , 207-219.	0.2	14
13	Wall-Modeled Large-Eddy Simulation of Turbulent Boundary Layers with Mean-Flow Three-Dimensionality. AIAA Journal, 2021, 59, 1707-1717.	1.5	9
14	Wall-modeled LES in Unstructured Grids: Application to the NASA Wall-mounted Hump. , 2016, , .		4
15	A discontinuous Galerkin method for wall-modeled large-eddy simulations. Computers and Fluids, 2021, 222, 104933.	1.3	4