

pierre Sagaut

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332
papers

9,455
citations

52
h-index

85
g-index

362
ext. papers

10,965
ext. citations

3.3
avg, IF

6.68
L-index

#	Paper	IF	Citations
332	Homogeneous Turbulence Dynamics 2008 ,		292
331	Large Eddy Simulation of Flow Around an Airfoil Near Stall. <i>AIAA Journal</i> , 2002 , 40, 1139-1145	2.1	260
330	A dynamic finite volume scheme for large-eddy simulation on unstructured grids. <i>Journal of Computational Physics</i> , 2005 , 210, 632-655	4.1	259
329	Large Eddy Simulation for Incompressible Flows. <i>Scientific Computation</i> , 2001 ,	0.1	249
328	On the Use of Shock-Capturing Schemes for Large-Eddy Simulation. <i>Journal of Computational Physics</i> , 1999 , 153, 273-311	4.1	232
327	Large Eddy Simulation for Compressible Flows. <i>Scientific Computation</i> , 2009 ,	0.1	210
326	Large Eddy Simulation for Incompressible Flows. <i>Scientific Computation</i> , 2002 ,	0.1	203
325	Comparison between lattice Boltzmann method and Navier-Stokes high order schemes for computational aeroacoustics. <i>Journal of Computational Physics</i> , 2009 , 228, 1056-1070	4.1	198
324	Subgrid-Scale Models for Large-Eddy Simulations of Compressible Wall Bounded Flows. <i>AIAA Journal</i> , 2000 , 38, 1340-1350	2.1	191
323	Calibrated reduced-order POD-Galerkin system for fluid flow modelling. <i>Journal of Computational Physics</i> , 2005 , 207, 192-220	4.1	169
322	Numerical investigation of the tone noise mechanism over laminar airfoils. <i>Journal of Fluid Mechanics</i> , 2007 , 591, 155-182	3.7	160
321	Large-eddy simulation of a compressible flow in a three-dimensional open cavity at high Reynolds number. <i>Journal of Fluid Mechanics</i> , 2004 , 516, 265-301	3.7	157
320	A Problem-Independent Limiter for High-Order Runge-Kutta Discontinuous Galerkin Methods. <i>Journal of Computational Physics</i> , 2001 , 169, 111-150	4.1	155
319	Large-eddy simulation of a compressible flow past a deep cavity. <i>Physics of Fluids</i> , 2003 , 15, 193-210	4.4	152
318	Numerical simulation of active separation control by a synthetic jet. <i>Journal of Fluid Mechanics</i> , 2007 , 574, 25-58	3.7	150
317	Building Efficient Response Surfaces of Aerodynamic Functions with Kriging and Cokriging. <i>AIAA Journal</i> , 2008 , 46, 498-507	2.1	148
316	Large Eddy Simulation of Shock/Boundary-Layer Interaction. <i>AIAA Journal</i> , 2002 , 40, 1935-1944	2.1	122

315	Generation of synthetic turbulent inflow data for large eddy simulation of spatially evolving wall-bounded flows. <i>Physics of Fluids</i> , 2009 , 21, 045103	4.4	109
314	Large eddy simulation of subsonic and supersonic channel flow at moderate Reynolds number. <i>International Journal for Numerical Methods in Fluids</i> , 2000 , 32, 369-406	1.9	107
313	Turbulent Inflow Conditions for Large-Eddy-Simulation of Compressible Wall-Bounded Flows. <i>AIAA Journal</i> , 2004 , 42, 469-477	2.1	102
312	Towards large eddy simulation of isothermal two-phase flows: Governing equations and a priori tests. <i>International Journal of Multiphase Flow</i> , 2007 , 33, 1-39	3.6	100
311	Multiscale and Multiresolution Approaches in Turbulence 2006 ,		94
310	Towards an adaptive POD/SVD surrogate model for aeronautic design. <i>Computers and Fluids</i> , 2011 , 40, 195-209	2.8	87
309	Numerical simulation of the compressible mixing layer past an axisymmetric trailing edge. <i>Journal of Fluid Mechanics</i> , 2007 , 591, 215-253	3.7	86
308	On the model coefficients for the standard and the variational multi-scale Smagorinsky model. <i>Journal of Fluid Mechanics</i> , 2006 , 569, 287	3.7	85
307	Large-eddy simulation of aero-optical effects in a spatially developing turbulent boundary layer. <i>Journal of Turbulence</i> , 2006 , 7, N1	2.1	84
306	Large eddy simulation of the flow around single and two side-by-side cylinders at subcritical Reynolds numbers. <i>Physics of Fluids</i> , 2011 , 23, 075101	4.4	83
305	Discrete filters for large eddy simulation. <i>International Journal for Numerical Methods in Fluids</i> , 1999 , 31, 1195-1220	1.9	82
304	Large eddy simulation for aerodynamics: status and perspectives. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 2849-60	3	81
303	A surrogate-model based multidisciplinary shape optimization method with application to a 2D subsonic airfoil. <i>Computers and Fluids</i> , 2007 , 36, 520-529	2.8	77
302	Error dynamics: Beyond von Neumann analysis. <i>Journal of Computational Physics</i> , 2007 , 226, 1211-1218	4.1	77
301	Recursive regularization step for high-order lattice Boltzmann methods. <i>Physical Review E</i> , 2017 , 96, 033306	2.4	75
300	High-Resolution Large-Eddy Simulation of Flow Around Low-Pressure Turbine Blade. <i>AIAA Journal</i> , 2003 , 41, 390-397	2.1	75
299	Flow dynamics past a simplified wing body junction. <i>Physics of Fluids</i> , 2010 , 22, 115111	4.4	74
298	Trailing-Edge Noise Prediction Using Large-Eddy Simulation and Acoustic Analogy. <i>AIAA Journal</i> , 2000 , 38, 575-583	2.1	74

297	Sensitivity analysis of large-eddy simulations to subgrid-scale-model parametric uncertainty using polynomial chaos. <i>Journal of Fluid Mechanics</i> , 2007 , 585, 255-279	3-7	72
296	Intermodal energy transfers in a proper orthogonal decomposition-Galerkin representation of a turbulent separated flow. <i>Journal of Fluid Mechanics</i> , 2003 , 491, 275-284	3-7	72
295	Is plane-channel flow a friendly case for the testing of large-eddy simulation subgrid-scale models?. <i>Physics of Fluids</i> , 2007 , 19, 048105	4-4	70
294	Lattice Boltzmann method with selective viscosity filter. <i>Journal of Computational Physics</i> , 2009 , 228, 4478-4490	4-1	68
293	A computational error-assessment of central finite-volume discretizations in large-eddy simulation using a Smagorinsky model. <i>Journal of Computational Physics</i> , 2007 , 227, 156-173	4-1	65
292	Reconstruction of Turbulent Fluctuations Using a Hybrid RANS/LES Approach. <i>Journal of Computational Physics</i> , 2002 , 182, 301-336	4-1	62
291	Multiscale and Multiresolution Approaches in Turbulence 2013 ,		60
290	Reynolds-Averaged Navier-Stokes/Large-Eddy Simulations of Supersonic Base Flow. <i>AIAA Journal</i> , 2006 , 44, 2578-2590	2-1	59
289	On the radiated noise computed by large-eddy simulation. <i>Physics of Fluids</i> , 2001 , 13, 476-487	4-4	58
288	On the dynamics of axisymmetric turbulent separating/reattaching flows. <i>Physics of Fluids</i> , 2009 , 21, 075103	4-4	57
287	Consistent subgrid scale modelling for lattice Boltzmann methods. <i>Journal of Fluid Mechanics</i> , 2012 , 700, 514-542	3-7	56
286	Time-Frequency Analysis and Detection of Supersonic Inlet Buzz. <i>AIAA Journal</i> , 2007 , 45, 2273-2284	2-1	56
285	Numerical simulation of phase separation and a priori two-phase LES filtering. <i>Computers and Fluids</i> , 2008 , 37, 898-906	2-8	55
284	Hybrid methods for airframe noise numerical prediction. <i>Theoretical and Computational Fluid Dynamics</i> , 2005 , 19, 197-227	2-3	55
283	Hybrid recursive regularized thermal lattice Boltzmann model for high subsonic compressible flows. <i>Journal of Computational Physics</i> , 2019 , 394, 82-99	4-1	54
282	Toward advanced subgrid models for Lattice-Boltzmann-based Large-eddy simulation: Theoretical formulations. <i>Computers and Mathematics With Applications</i> , 2010 , 59, 2194-2199	2-7	53
281	Unsteady Simulation of Synthetic Jet in a Crossflow. <i>AIAA Journal</i> , 2006 , 44, 225-238	2-1	52
280	Nonlinear global modes in hot jets. <i>Journal of Fluid Mechanics</i> , 2006 , 554, 393	3-7	52

279	Large-eddy simulation of a subsonic cavity flow including asymmetric three-dimensional effects. <i>Journal of Fluid Mechanics</i> , 2007 , 577, 105-126	3.7	51
278	A Class of Explicit ENO Filters with Application to Unsteady Flows. <i>Journal of Computational Physics</i> , 2001 , 170, 184-204	4.1	51
277	Optimal low-dispersion low-dissipation LBM schemes for computational aeroacoustics. <i>Journal of Computational Physics</i> , 2011 , 230, 5353-5382	4.1	49
276	A new hybrid recursive regularised Bhatnagar-Gross-Krook collision model for Lattice Boltzmann method-based large eddy simulation. <i>Journal of Turbulence</i> , 2018 , 19, 1051-1076	2.1	49
275	Comparison of Gradient-Based and Gradient-Enhanced Response-Surface-Based Optimizers. <i>AIAA Journal</i> , 2010 , 48, 981-994	2.1	48
274	A macroscopic turbulence model for flow in porous media suited for channel, pipe and rod bundle flows. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 2739-2750	4.9	48
273	Reconstruction of unsteady viscous flows using data assimilation schemes. <i>Journal of Computational Physics</i> , 2016 , 316, 255-280	4.1	47
272	Zonal multi-domain RANS/LES simulations of turbulent flows. <i>International Journal for Numerical Methods in Fluids</i> , 2002 , 40, 903-925	1.9	46
271	Wall model for large-eddy simulation based on the lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2014 , 275, 25-40	4.1	45
270	Spectral approach to finite Reynolds number effects on Kolmogorov's $4/5$ law in isotropic turbulence. <i>Physics of Fluids</i> , 2012 , 24, 015107	4.4	43
269	On the use of a high order overlapping grid method for coupling in CFD/CAA. <i>Journal of Computational Physics</i> , 2006 , 220, 355-382	4.1	43
268	A dynamic forcing method for unsteady turbulent inflow conditions. <i>Journal of Computational Physics</i> , 2011 , 230, 8647-8663	4.1	42
267	Numerical Prediction of Airfoil Aerodynamic Noise 2002 ,		42
266	Further insights into self-similarity and self-preservation in freely decaying isotropic turbulence. <i>Journal of Turbulence</i> , 2013 , 14, 24-53	2.1	41
265	Theoretical prediction of turbulent skin friction on geometrically complex surfaces. <i>Physics of Fluids</i> , 2009 , 21, 105105	4.4	41
264	Optimal model parameters for multi-objective large-eddy simulations. <i>Physics of Fluids</i> , 2006 , 18, 095103	4.4	41
263	Wind comfort assessment by means of large eddy simulation with lattice Boltzmann method in full scale city area. <i>Building and Environment</i> , 2018 , 139, 110-124	6.5	41
262	A Multilevel Algorithm for Large-Eddy Simulation of Turbulent Compressible Flows. <i>Journal of Computational Physics</i> , 2001 , 167, 439-474	4.1	39

261	A new multi-domain/multi-resolution method for large-eddy simulation. <i>International Journal for Numerical Methods in Fluids</i> , 2001 , 36, 391-416	1.9	39
260	An explicit power-law-based wall model for lattice Boltzmann method Reynolds-averaged numerical simulations of the flow around airfoils. <i>Physics of Fluids</i> , 2018 , 30, 065111	4.4	39
259	On non-self-similar regimes in homogeneous isotropic turbulence decay. <i>Journal of Fluid Mechanics</i> , 2012 , 711, 364-393	3.7	38
258	A gPC-based approach to uncertain transonic aerodynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010 , 199, 1091-1099	5.7	37
257	Homogeneous Turbulence Dynamics 2018 ,		37
256	Curvilinear finite-volume schemes using high-order compact interpolation. <i>Journal of Computational Physics</i> , 2010 , 229, 5090-5122	4.1	36
255	A study of time correlations in lattice Boltzmann-based large-eddy simulation of isotropic turbulence. <i>Physics of Fluids</i> , 2008 , 20, 035105	4.4	36
254	Response of a spatially developing turbulent boundary layer to active control strategies in the framework of opposition control. <i>Physics of Fluids</i> , 2007 , 19, 108102	4.4	36
253	A compressible wall model for large-eddy simulation with application to prediction of aerothermal quantities. <i>Physics of Fluids</i> , 2012 , 24, 065103	4.4	35
252	Sensitivity of two-dimensional spatially developing mixing layers with respect to uncertain inflow conditions. <i>Physics of Fluids</i> , 2008 , 20, 077102	4.4	35
251	Large-eddy simulation of sheared interfacial flow. <i>Physics of Fluids</i> , 2006 , 18, 105105	4.4	35
250	Large Eddy simulation of shock/homogeneous turbulence interaction. <i>Computers and Fluids</i> , 2002 , 31, 245-268	2.8	35
249	Zonal detached eddy simulation (ZDES) of a spatially developing flat plate turbulent boundary layer over the Reynolds number range $3 \leq Re \leq 14\,000$. <i>Physics of Fluids</i> , 2014 , 26, 025116	4.4	34
248	Frequency selection in globally unstable round jets. <i>Physics of Fluids</i> , 2007 , 19, 054108	4.4	34
247	Numerical Simulation of the 3D Unsteady Flow in a Slat Cove for Noise Prediction 2003 ,		34
246	A three dimensional lattice model for thermal compressible flow on standard lattices. <i>Journal of Computational Physics</i> , 2015 , 303, 514-529	4.1	32
245	An extended spectral analysis of the lattice Boltzmann method: modal interactions and stability issues. <i>Journal of Computational Physics</i> , 2019 , 380, 311-333	4.1	32
244	Epistemic uncertainties in RANS model free coefficients. <i>Computers and Fluids</i> , 2014 , 102, 315-335	2.8	29

243	Contribution of Reynolds stress distribution to the skin friction in compressible turbulent channel flows. <i>Physical Review E</i> , 2009 , 79, 035301	2.4	29
242	Stochastic design optimization: Application to reacting flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007 , 196, 5047-5062	5.7	29
241	Analysis of the Sutton Model for Aero-Optical Properties of Compressible Boundary Layers. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2006 , 128, 239-246	2.1	29
240	A compressible lattice Boltzmann finite volume model for high subsonic and transonic flows on regular lattices. <i>Computers and Fluids</i> , 2016 , 131, 45-55	2.8	28
239	A spectral model for homogeneous shear-driven anisotropic turbulence in terms of spherically averaged descriptors. <i>Journal of Fluid Mechanics</i> , 2016 , 788, 147-182	3.7	28
238	A coupled time-reversal/complex differentiation method for aeroacoustic sensitivity analysis: towards a source detection procedure. <i>Journal of Fluid Mechanics</i> , 2010 , 642, 181-212	3.7	27
237	Pressure loss reduction in hydrogen pipelines by surface restructuring. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 8964-8973	6.7	27
236	Filtered subgrid-scale models. <i>Physics of Fluids</i> , 2000 , 12, 233-236	4.4	27
235	Revisiting the spectral analysis for high-order spectral discontinuous methods. <i>Journal of Computational Physics</i> , 2017 , 337, 379-402	4.1	26
234	A stochastic view of isotropic turbulence decay. <i>Journal of Fluid Mechanics</i> , 2011 , 668, 351-362	3.7	26
233	An algorithm for unsteady viscous flows at all speeds. <i>International Journal for Numerical Methods in Fluids</i> , 2000 , 34, 371-401	1.9	26
232	An efficient lattice Boltzmann method for compressible aerodynamics on D3Q19 lattice. <i>Journal of Computational Physics</i> , 2020 , 418, 109570	4.1	26
231	A hybrid anchored-ANOVA IPOD/Kriging method for uncertainty quantification in unsteady high-fidelity CFD simulations. <i>Journal of Computational Physics</i> , 2016 , 324, 137-173	4.1	25
230	Evaluation of Smagorinsky variants in large-eddy simulations of wall-resolved plane channel flows. <i>Physics of Fluids</i> , 2007 , 19, 095105	4.4	25
229	An algorithm for low Mach number unsteady flows. <i>Computers and Fluids</i> , 2000 , 29, 119-147	2.8	25
228	Subgrid-Scale Contribution to Noise Production in Decaying Isotropic Turbulence. <i>AIAA Journal</i> , 2000 , 38, 1795-1803	2.1	25
227	Regularized thermal lattice Boltzmann method for natural convection with large temperature differences. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 125, 1379-1391	4.9	24
226	Flow over a flat plate with uniform inlet and incident coherent gusts. <i>Journal of Fluid Mechanics</i> , 2013 , 720, 457-485	3.7	24

225	Sensitivity analysis and determination of free relaxation parameters for the weakly-compressible MRT-IBM schemes. <i>Journal of Computational Physics</i> , 2012 , 231, 7335-7367	4.1	24
224	Advanced large-eddy simulation for lattice Boltzmann methods: The approximate deconvolution model. <i>Physics of Fluids</i> , 2011 , 23, 105103	4.4	24
223	Inertial consistent subgrid model for large-eddy simulation based on the lattice Boltzmann method. <i>Physics of Fluids</i> , 2008 , 20, 035104	4.4	24
222	An entropy-variable-based VMS/GLS method for the simulation of compressible flows on unstructured grids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 1154-1179	5.7	24
221	Simulation of a viscous compressible flow past a circular cylinder with high-order discontinuous Galerkin methods. <i>Computers and Fluids</i> , 2002 , 31, 867-889	2.8	24
220	LARGE-EDDY SIMULATION OF HEAT TRANSFER OVER A BACKWARD-FACING STEP. <i>Numerical Heat Transfer; Part A: Applications</i> , 2002 , 42, 73-90	2.3	24
219	A pressure-based regularized lattice-Boltzmann method for the simulation of compressible flows. <i>Physics of Fluids</i> , 2020 , 32, 066106	4.4	23
218	Analysis of the absorbing layers for the weakly-compressible lattice Boltzmann methods. <i>Journal of Computational Physics</i> , 2013 , 245, 14-42	4.1	23
217	An arbitrary Lagrangian-Eulerian approach for the simulation of immersed moving solids with Lattice Boltzmann Method. <i>Journal of Computational Physics</i> , 2013 , 235, 182-198	4.1	22
216	Grid refinement for aeroacoustics in the lattice Boltzmann method: A directional splitting approach. <i>Physical Review E</i> , 2017 , 96, 023311	2.4	22
215	Magnetically induced flame flickering. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 1095-1103	5.9	22
214	Large eddy simulations of aero-optical effects in a turbulent boundary layer. <i>Journal of Turbulence</i> , 2003 , 4,	2.1	22
213	Numerical prediction of the unsteady flow and radiated noise from a 3D lifting airfoil 2001 ,		22
212	Large Eddy Simulation for Incompressible Flows. An Introduction. <i>Measurement Science and Technology</i> , 2001 , 12, 1745-1746	2	22
211	A Kriging Approach for CFD/Wind-Tunnel Data Comparison. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2006 , 128, 847-855	2.1	21
210	A study of built-in filter for some eddy viscosity models in large-eddy simulation. <i>Physics of Fluids</i> , 2001 , 13, 1440-1449	4.4	21
209	Lattice-Boltzmann Large-Eddy Simulation of pollutant dispersion in street canyons including tree planting effects. <i>Atmospheric Environment</i> , 2018 , 195, 89-103	5.3	20
208	Data assimilation-based reconstruction of urban pollutant release characteristics. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017 , 169, 232-250	3.7	19

207	Hybrid recursive regularized lattice Boltzmann simulation of humid air with application to meteorological flows. <i>Physical Review E</i> , 2019 , 100, 023304	2.4	19
206	Riblet Flow Model Based on an Extended FIK Identity. <i>Flow, Turbulence and Combustion</i> , 2015 , 95, 351-376		19
205	Quantification of errors in large-eddy simulations of a spatially evolving mixing layer using polynomial chaos. <i>Physics of Fluids</i> , 2012 , 24, 035101	4.4	19
204	Is the Smagorinsky coefficient sensitive to uncertainty in the form of the energy spectrum?. <i>Physics of Fluids</i> , 2011 , 23, 125109	4.4	19
203	A dynamic p-adaptive Discontinuous Galerkin method for viscous flow with shocks. <i>Computers and Fluids</i> , 2005 , 34, 401-417	2.8	19
202	Evaluation of some high-order shock capturing schemes for direct numerical simulation of unsteady two-dimensional free flows. <i>International Journal for Numerical Methods in Fluids</i> , 2000 , 33, 249-278	1.9	19
201	Is isotropic turbulence decay governed by asymptotic behavior of large scales? An eddy-damped quasi-normal Markovian-based data assimilation study. <i>Physics of Fluids</i> , 2014 , 26, 115105	4.4	18
200	PEGASE: A NAVIER-STOKES SOLVER FOR DIRECT NUMERICAL SIMULATION OF INCOMPRESSIBLE FLOWS. <i>International Journal for Numerical Methods in Fluids</i> , 1997 , 24, 833-861	1.9	18
199	RANS/LES coupling for unsteady turbulent flow simulation at high Reynolds number on coarse meshes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 2939-2960	5.7	18
198	On the filtering paradigm for LES of flows with discontinuities. <i>Journal of Turbulence</i> , 2005 , 6, N23	2.1	18
197	Improved compressible hybrid lattice Boltzmann method on standard lattice for subsonic and supersonic flows. <i>Computers and Fluids</i> , 2021 , 219, 104867	2.8	18
196	Solid wall and open boundary conditions in hybrid recursive regularized lattice Boltzmann method for compressible flows. <i>Physics of Fluids</i> , 2019 , 31, 126103	4.4	18
195	Optimal sensor placement for variational data assimilation of unsteady flows past a rotationally oscillating cylinder. <i>Journal of Fluid Mechanics</i> , 2017 , 823, 230-277	3.7	17
194	On sensitivity of RANS simulations to uncertain turbulent inflow conditions. <i>Computers and Fluids</i> , 2012 , 61, 2-5	2.8	17
193	Pressure statistics in self-similar freely decaying isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2013 , 717,	3.7	17
192	Comparison of some Lie-symmetry-based integrators. <i>Journal of Computational Physics</i> , 2011 , 230, 2174-2188	4.1	17
191	Stochastic response of the laminar flow past a flat plate under uncertain inflow conditions. <i>International Journal of Computational Fluid Dynamics</i> , 2012 , 26, 101-117	1.2	16
190	Turbulent Drag Reduction Using Sinusoidal Riblets With Triangular Cross-Section 2008 ,		16

189	Direct sensitivity analysis for smooth unsteady compressible flows using complex differentiation. <i>International Journal for Numerical Methods in Fluids</i> , 2007 , 53, 1863-1886	1.9	16
188	Sensitivity of spectral variational multiscale methods for large-eddy simulation of isotropic turbulence. <i>Physics of Fluids</i> , 2005 , 17, 035113	4.4	16
187	Numerical simulation of propagation of small perturbations interacting with flows and solid bodies 2001 ,		16
186	Lattice-Boltzmann large-eddy simulation of pollutant dispersion in complex urban environment with dense gas effect: Model evaluation and flow analysis. <i>Building and Environment</i> , 2019 , 148, 634-652	6.5	16
185	Analysis and reduction of spurious noise generated at grid refinement interfaces with the lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2020 , 418, 109645	4.1	14
184	Numerical investigation on the partial return to isotropy of freely decaying homogeneous axisymmetric turbulence. <i>Physics of Fluids</i> , 2014 , 26, 025110	4.4	14
183	Localization of aeroacoustic sound sources in viscous flows by a time reversal method. <i>Journal of Sound and Vibration</i> , 2013 , 332, 3655-3669	3.9	14
182	Turbulence in a box: quantification of large-scale resolution effects in isotropic turbulence free decay. <i>Journal of Fluid Mechanics</i> , 2017 , 818, 697-715	3.7	13
181	Evaluation of the unsteady RANS capabilities for separated flows control. <i>Computers and Fluids</i> , 2012 , 61, 39-45	2.8	13
180	Trajectory of an optical vortex in atmospheric turbulence. <i>Physical Review E</i> , 2009 , 80, 046609	2.4	13
179	Sensitivity Analysis and Multiobjective Optimization for LES Numerical Parameters. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2008 , 130,	2.1	13
178	Shallow water sound source localization using the iterative beamforming method in an image framework. <i>Journal of Sound and Vibration</i> , 2017 , 395, 354-370	3.9	12
177	On the emergence of non-classical decay regimes in multiscale/fractal generated isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2014 , 756, 816-843	3.7	12
176	Unstructured Large Eddy Simulation of the passive control of the flow in a weapon bay. <i>Journal of Fluids and Structures</i> , 2008 , 24, 1204-1215	3.1	12
175	Passive scalar decay laws in isotropic turbulence: Prandtl number effects. <i>Journal of Fluid Mechanics</i> , 2015 , 784, 274-303	3.7	11
174	A lattice Boltzmann method for nonlinear disturbances around an arbitrary base flow. <i>Journal of Computational Physics</i> , 2012 , 231, 8070-8082	4.1	11
173	Aerodynamic sound generation by global modes in hot jets. <i>Journal of Fluid Mechanics</i> , 2010 , 647, 473-489	3.7	11
172	A time self-adaptive multilevel algorithm for large-eddy simulation. <i>Journal of Computational Physics</i> , 2003 , 184, 339-365	4.1	11

171	Toward fully conservative hybrid lattice Boltzmann methods for compressible flows. <i>Physics of Fluids</i> , 2020 , 32, 126118	4.4	11
170	Decay and growth laws in homogeneous shear turbulence. <i>Journal of Turbulence</i> , 2016 , 17, 699-726	2.1	10
169	Extended integral wall-model for large-eddy simulations of compressible wall-bounded turbulent flows. <i>Physics of Fluids</i> , 2018 , 30, 065106	4.4	10
168	An adjoint-based lattice Boltzmann method for noise control problems. <i>Journal of Computational Physics</i> , 2014 , 276, 39-61	4.1	10
167	Temperature dynamics in decaying isotropic turbulence with Joule heat production. <i>Journal of Fluid Mechanics</i> , 2013 , 724, 425-449	3.7	10
166	Noise source identification with the lattice Boltzmann method. <i>Journal of the Acoustical Society of America</i> , 2013 , 133, 1293-305	2.2	10
165	Analysis of turbulent skin friction generated in flow along a cylinder. <i>Physics of Fluids</i> , 2011 , 23, 065106	4.4	10
164	Pseudo-characteristic formulation and dynamic boundary conditions for computational aeroacoustics. <i>International Journal for Numerical Methods in Fluids</i> , 2007 , 53, 201-227	1.9	10
163	A finite-volume variational multiscale method coupled with a discrete interpolation filter for large-eddy simulation of isotropic turbulence and fully developed channel flow. <i>Physics of Fluids</i> , 2006 , 18, 115101	4.4	10
162	On the use of incomplete sensitivities for feedback control of laminar vortex shedding. <i>Computers and Fluids</i> , 2006 , 35, 1432-1443	2.8	10
161	Assessment of some self-adaptive SGS models for wall bounded flows. <i>Aerospace Science and Technology</i> , 1999 , 3, 335-344	4.9	10
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