

# Charles Meneveau

## List of Publications by Year in descending order

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338  
papers

23,502  
citations

10351

72  
h-index

9839

141  
g-index

349  
all docs

349  
docs citations

349  
times ranked

8144  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifractality in a nested velocity gradient model for intermittent turbulence. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	2
2	A Lagrangian relaxation towards equilibrium wall model for large eddy simulation. <i>Journal of Fluid Mechanics</i> , 2022, 934, .	1.4	12
3	Turbulent boundary layer flow over regularly and irregularly arranged truncated cone surfaces. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	1.4	13
4	Resolved and subgrid-scale crossing trajectory effects in Eulerian large eddy simulations of size-dependent droplet transport. <i>Journal of Fluid Mechanics</i> , 2022, 935, .	1.4	0
5	A vortex sheet based analytical model of the curled wake behind yawed wind turbines. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	1.4	22
6	Perturbative model for the second-order velocity structure function tensor in turbulent shear flows. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	1
7	Large-eddy simulation of wind turbines immersed in the wake of a cube-shaped building. <i>Renewable Energy</i> , 2021, 163, 1063-1077.	4.3	22
8	Two-point stress-strain-rate correlation structure and non-local eddy viscosity in turbulent flows. <i>Journal of Fluid Mechanics</i> , 2021, 914, .	1.4	28
9	Network based estimation of wind farm power and velocity data under changing wind direction. , 2021, , .		5
10	The area localized coupled model for analytical mean flow prediction in arbitrary wind farm geometries. <i>Journal of Renewable and Sustainable Energy</i> , 2021, 13, .	0.8	9
11	Large eddy simulation of transitional channel flow using a machine learning classifier to distinguish laminar and turbulent regions. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	4
12	Spatio-temporal dynamics of turbulent separation bubbles. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	1.4	32
13	A mathematical framework for estimating risk of airborne transmission of COVID-19 with application to face mask use and social distancing. <i>Physics of Fluids</i> , 2020, 32, 101903.	1.6	114
14	Large eddy simulation study of extended wind farms with large inter turbine spacing. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 062011.	0.3	2
15	Generation and decay of counter-rotating vortices downstream of yawed wind turbines in the atmospheric boundary layer. <i>Journal of Fluid Mechanics</i> , 2020, 903, .	1.4	8
16	A note on fitting a generalised Moody diagram for wall modelled large-eddy simulations. <i>Journal of Turbulence</i> , 2020, 21, 650-673.	0.5	8
17	High-Reynolds-number fractal signature of nascent turbulence during transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3461-3468.	3.3	8
18	Total mechanical energy transport lines and attractors in separating turbulent boundary layers. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	3

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19	Coupled population balance and large eddy simulation model for polydisperse droplet evolution in a turbulent round jet. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	10
20	Data compression for turbulence databases using spatiotemporal subsampling and local resimulation. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	3
21	Hierarchical random additive model for wall-bounded flows at high Reynolds numbers. <i>Fluid Dynamics Research</i> , 2019, 51, 011405.	0.6	15
22	Filtered actuator disks: Theory and application to wind turbine models in large eddy simulation. <i>Wind Energy</i> , 2019, 22, 1414-1420.	1.9	32
23	Grand challenges in the science of wind energy. <i>Science</i> , 2019, 366, .	6.0	482
24	Material Transport in the Ocean Mixed Layer: Recent Developments Enabled by Large Eddy Simulations. <i>Reviews of Geophysics</i> , 2019, 57, 1338-1371.	9.0	35
25	A Wake Modeling Paradigm for Wind Farm Design and Control. <i>Energies</i> , 2019, 12, 2956.	1.6	53
26	A population balance model for large eddy simulation of polydisperse droplet evolution. <i>Journal of Fluid Mechanics</i> , 2019, 878, 700-739.	1.4	40
27	Comprehensive shear stress analysis of turbulent boundary layer profiles. <i>Journal of Fluid Mechanics</i> , 2019, 879, 360-389.	1.4	14
28	Filtered lifting line theory and application to the actuator line model. <i>Journal of Fluid Mechanics</i> , 2019, 863, 269-292.	1.4	55
29	Big wind power: seven questions for turbulence research. <i>Journal of Turbulence</i> , 2019, 20, 2-20.	0.5	61
30	Application of a self-organizing map to identify the turbulent-boundary-layer interface in a transitional flow. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	27
31	Modelling yawed wind turbine wakes: a lifting line approach. <i>Journal of Fluid Mechanics</i> , 2018, 841, .	1.4	122
32	Geometry and scaling laws of excursion and iso-sets of enstrophy and dissipation in isotropic turbulence. <i>Journal of Turbulence</i> , 2018, 19, 297-321.	0.5	4
33	Large Eddy Simulation of Heat Entrainment Under Arctic Sea Ice. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 287-304.	1.0	10
34	Predicting viscous-range velocity gradient dynamics in large-eddy simulations of turbulence. <i>Journal of Fluid Mechanics</i> , 2018, 837, 80-114.	1.4	22
35	Effect of filter type on the statistics of energy transfer between resolved and subfilter scales from <i>a-priori</i> analysis of direct numerical simulations of isotropic turbulence. <i>Journal of Turbulence</i> , 2018, 19, 167-197.	0.5	47
36	Modeling space-time correlations of velocity fluctuations in wind farms. <i>Wind Energy</i> , 2018, 21, 474-487.	1.9	25

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37	Geometric decomposition of the conformation tensor in viscoelastic turbulence. <i>Journal of Fluid Mechanics</i> , 2018, 842, 395-427.	1.4	31
38	Comparison of wind farm large eddy simulations using actuator disk and actuator line models with wind tunnel experiments. <i>Renewable Energy</i> , 2018, 116, 470-478.	4.3	162
39	A restricted nonlinear large eddy simulation model for high Reynolds number flows. <i>Journal of Turbulence</i> , 2018, 19, 141-166.	0.5	7
40	A Turbulence Velocity Scale for Predicting the Fate of Buoyant Materials in the Oceanic Mixed Layer. <i>Geophysical Research Letters</i> , 2018, 45, 11,817.	1.5	14
41	Coordinated pitch and torque control of wind farms for power tracking. , 2018, , .		5
42	Comparison of four large-eddy simulation research codes and effects of model coefficient and inflow turbulence in actuator-line-based wind turbine modeling. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, .	0.8	54
43	Response of a Laminar Separation Bubble to Zero-Net Mass Flux Actuation. , 2018, , .		2
44	The restricted nonlinear large eddy simulation approach to reduced-order wind farm modeling. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, 043307.	0.8	3
45	Large Eddy Simulation of a wind tunnel wind farm experiment with one hundred static turbine models. <i>Journal of Physics: Conference Series</i> , 2018, 1037, 062006.	0.3	3
46	Multiscale analysis of the invariants of the velocity gradient tensor in isotropic turbulence. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	25
47	Numerical study of the effects of chemical dispersant on oil transport from an idealized underwater blowout. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	13
48	Effect of layout on asymptotic boundary layer regime in deep wind farms. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	12
49	Wind farms providing secondary frequency regulation: evaluating the performance of model-based receding horizon control. <i>Wind Energy Science</i> , 2018, 3, 11-24.	1.2	12
50	Benefits of collocating vertical-axis and horizontal-axis wind turbines in large wind farms. <i>Wind Energy</i> , 2017, 20, 45-62.	1.9	46
51	An Advanced Actuator Line Method for Wind Energy Applications and Beyond. , 2017, , .		50
52	Optimal smoothing length scale for actuator line models of wind turbine blades based on Gaussian body force distribution. <i>Wind Energy</i> , 2017, 20, 1083-1096.	1.9	87
53	Modelling turbulent boundary layer flow over fractal-like multiscale terrain using large-eddy simulations and analytical tools. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160098.	1.6	15
54	Restricted Euler dynamics along trajectories of small inertial particles in turbulence. <i>Journal of Fluid Mechanics</i> , 2017, 816, .	1.4	4

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55	Model-based receding horizon control of wind farms for secondary frequency regulation. <i>Wind Energy</i> , 2017, 20, 1261-1275.	1.9	66
56	Wind farm power fluctuations and spatial sampling of turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2017, 823, 329-344.	1.4	31
57	Aerodynamic Properties of Rough Surfaces with High Aspect-Ratio Roughness Elements: Effect of Aspect Ratio and Arrangements. <i>Boundary-Layer Meteorology</i> , 2017, 163, 203-224.	1.2	35
58	Measurement of unsteady loading and power output variability in a micro wind farm model in a wind tunnel. <i>Experiments in Fluids</i> , 2017, 58, 1.	1.1	60
59	Dynamic wake modeling and state estimation for improved model-based receding horizon control of wind farms. , 2017, , .		20
60	Combining economic and fluid dynamic models to determine the optimal spacing in very large wind farms. <i>Wind Energy</i> , 2017, 20, 465-477.	1.9	40
61	Flow Structure and Turbulence in Wind Farms. <i>Annual Review of Fluid Mechanics</i> , 2017, 49, 311-339.	10.8	300
62	Turbulence in the Era of Big Data: Recent Experiences with Sharing Large Datasets. , 2017, , 497-507.		3
63	Extreme Event Analysis in Next Generation Simulation Architectures. <i>Lecture Notes in Computer Science</i> , 2017, , 277-293.	1.0	6
64	Analysis of geometrical and statistical features of Lagrangian stretching in turbulent channel flow using a database task-parallel particle tracking algorithm. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	12
65	Structure function tensor scaling in the logarithmic region derived from the attached eddy model of wall-bounded turbulent flows. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	25
66	Turbulence intermittency in a multiple-time-scale Navier-Stokes-based reduced model. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	23
67	Wind tunnel study of the power output spectrum in a micro wind farm. <i>Journal of Physics: Conference Series</i> , 2016, 753, 072002.	0.3	3
68	Generalized coupled wake boundary layer model: applications and comparisons with field and LES data for two wind farms. <i>Wind Energy</i> , 2016, 19, 2023-2040.	1.9	38
69	A closure for Lagrangian velocity gradient evolution in turbulence using recent-deformation mapping of initially Gaussian fields. <i>Journal of Fluid Mechanics</i> , 2016, 804, 387-419.	1.4	36
70	A Highly Resolved Large-Eddy Simulation of a Wind Turbine using an Actuator Line Model with Optimal Body Force Projection. <i>Journal of Physics: Conference Series</i> , 2016, 753, 082014.	0.3	16
71	Shifted periodic boundary conditions for simulations of wall-bounded turbulent flows. <i>Physics of Fluids</i> , 2016, 28, .	1.6	91
72	Wake structure in actuator disk models of wind turbines in yaw under uniform inflow conditions. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	0.8	183

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73	Validation of four LES and a vortex model against stereo-PIV measurements in the near wake of an actuator disc and a wind turbine. <i>Renewable Energy</i> , 2016, 94, 510-523.	4.3	44
74	Exponential roughness layer and analytical model for turbulent boundary layer flow over rectangular-prism roughness elements. <i>Journal of Fluid Mechanics</i> , 2016, 789, 127-165.	1.4	120
75	Large-eddy simulation and parameterization of buoyant plume dynamics in stratified flow. <i>Journal of Fluid Mechanics</i> , 2016, 794, 798-833.	1.4	54
76	Moment generating functions and scaling laws in the inertial layer of turbulent wall-bounded flows. <i>Journal of Fluid Mechanics</i> , 2016, 791, .	1.4	33
77	Spatial Characteristics of Roughness Sublayer Mean Flow and Turbulence Over a Realistic Urban Surface. <i>Boundary-Layer Meteorology</i> , 2016, 160, 425-452.	1.2	112
78	Turbulent Inflow Precursor Method with Time-Varying Direction for Large-Eddy Simulations and Applications to Wind Farms. <i>Boundary-Layer Meteorology</i> , 2016, 159, 305-328.	1.2	69
79	Large eddy simulations and parameterisation of roughness element orientation and flow direction effects in rough wall boundary layers. <i>Journal of Turbulence</i> , 2016, 17, 1072-1085.	0.5	28
80	Effects of swell on transport and dispersion of oil plumes within the ocean mixed layer. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 3564-3578.	1.0	20
81	Large-deviation statistics of vorticity stretching in isotropic turbulence. <i>Physical Review E</i> , 2016, 93, 033118.	0.8	15
82	Wind farms providing secondary frequency regulation: Evaluating the performance of model-based receding horizon control. <i>Journal of Physics: Conference Series</i> , 2016, 753, 052012.	0.3	12
83	ENDLESS: An extended nonperiodic domain large-eddy simulation approach for scalar plumes. <i>Ocean Modelling</i> , 2016, 101, 121-132.	1.0	12
84	Wall-Modeled Large Eddy Simulation of Laminar and Turbulent Separation Bubble Flows. , 2016, , .		2
85	Effects of turbine spacing on the power output of extended wind farms. <i>Wind Energy</i> , 2016, 19, 359-370.	1.9	96
86	Wind Farm Large-Eddy Simulations on Very Coarse Grid Resolutions using an Actuator Line Model. , 2016, , .		7
87	Measuring power output intermittency and unsteady loading in a micro wind farm model. , 2016, , .		4
88	A Web services accessible database of turbulent channel flow and its use for testing a new integral wall model for LES. <i>Journal of Turbulence</i> , 2016, 17, 181-215.	0.5	135
89	Assessment of blockage effects on the wake characteristics and power of wind turbines. <i>Renewable Energy</i> , 2016, 93, 340-352.	4.3	71
90	Recycling inflow method for simulations of spatially evolving turbulent boundary layers over rough surfaces. <i>Journal of Turbulence</i> , 2016, 17, 75-93.	0.5	29

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91	Hierarchical random additive process and logarithmic scaling of generalized high order, two-point correlations in turbulent boundary layer flow. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	31
92	Extended self-similarity in moment-generating-functions in wall-bounded turbulence at high Reynolds number. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	24
93	Scaling of second- and higher-order structure functions in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2015, 769, 654-686.	1.4	65
94	Large-deviation joint statistics of the finite-time Lyapunov spectrum in isotropic turbulence. <i>Physics of Fluids</i> , 2015, 27, .	1.6	28
95	Large Eddy Simulation of wind turbine wakes: detailed comparisons of two codes focusing on effects of numerics and subgrid modeling. <i>Journal of Physics: Conference Series</i> , 2015, 625, 012024.	0.3	13
96	Oil plumes and dispersion in Langmuir, upper-ocean turbulence: Large-eddy simulations and K-profile parameterization. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 4729-4759.	1.0	40
97	Using the coupled wake boundary layer model to evaluate the effect of turbulence intensity on wind farm performance. <i>Journal of Physics: Conference Series</i> , 2015, 625, 012004.	0.3	10
98	Decaying turbulence in the presence of a shearless uniform kinetic energy gradient. <i>Journal of Turbulence</i> , 2015, 16, 442-459.	0.5	10
99	Height-dependence of spatio-temporal spectra of wall-bounded turbulence " LES results and model predictions. <i>Journal of Turbulence</i> , 2015, 16, 937-949.	0.5	8
100	Quantifying the Impact of Subgrid Scale Models in Actuator-Line Based LES of Wind Turbine Wakes in Laminar and Turbulent Inflow. <i>ERCOTAC Series</i> , 2015, , 169-175.	0.1	3
101	The role of free stream turbulence with large integral scale on the aerodynamic performance of an experimental low Reynolds number S809 wind turbine blade. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 142, 246-257.	1.7	25
102	Coupled wake boundary layer model of wind-farms. <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, .	0.8	65
103	Role of subgrid-scale modeling in large eddy simulation of wind turbine wake interactions. <i>Renewable Energy</i> , 2015, 77, 386-399.	4.3	62
104	Standard logarithmic mean velocity distribution in a band-limited restricted nonlinear model of turbulent flow in a half-channel. <i>Physics of Fluids</i> , 2015, 27, .	1.6	29
105	Integral wall model for large eddy simulations of wall-bounded turbulent flows. <i>Physics of Fluids</i> , 2015, 27, .	1.6	164
106	Altering Kinetic Energy Entrainment in Large Eddy Simulations of Large Wind Farms Using Unconventional Wind Turbine Actuator Forcing. <i>Energies</i> , 2015, 8, 370-386.	1.6	32
107	Spatio-temporal spectra in the logarithmic layer of wall turbulence: large-eddy simulations and simple models. <i>Journal of Fluid Mechanics</i> , 2015, 769, .	1.4	46
108	Turbulent Flow Structure Inside a Canopy with Complex Multi-Scale Elements. <i>Boundary-Layer Meteorology</i> , 2015, 155, 435-457.	1.2	44

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109	Simulation of Boundary Layer flows over Biofouled Surfaces. , 2015, , .		2
110	Large-Eddy Simulation and Single-Column Modeling of Thermally Stratified Wind Turbine Arrays for Fully Developed, Stationary Atmospheric Conditions. Journal of Atmospheric and Oceanic Technology, 2015, 32, 1144-1162.	0.5	24
111	Open Simulation Laboratories [Guest editors' introduction]. Computing in Science and Engineering, 2015, 17, 7-9.	1.2	1
112	Large eddy simulation studies of the effects of alignment and wind farm length. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	79
113	Multiscale analysis of fluxes at the turbulent/non-turbulent interface in high Reynolds number boundary layers. Physics of Fluids, 2014, 26, .	1.6	54
114	A control algorithm for statistically stationary large-eddy simulations of thermally stratified boundary layers. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 2017-2022.	1.0	32
115	Temporal structure of aggregate power fluctuations in large-eddy simulations of extended wind-farms. Journal of Renewable and Sustainable Energy, 2014, 6, 043102.	0.8	30
116	Pressure Hessian and viscous contributions to velocity gradient statistics based on Gaussian Random fields. Journal of Fluid Mechanics, 2014, 756, 191-225.	1.4	62
117	Large-eddy simulation study of the logarithmic law for second- and higher-order moments in turbulent wall-bounded flow. Journal of Fluid Mechanics, 2014, 757, 888-907.	1.4	95
118	A concurrent precursor inflow method for Large Eddy Simulations and applications to finite length wind farms. Renewable Energy, 2014, 68, 46-50.	4.3	144
119	Large-eddy simulation of offshore wind farm. Physics of Fluids, 2014, 26, .	1.6	72
120	Decay of homogeneous, nearly isotropic turbulence behind active fractal grids. Physics of Fluids, 2014, 26, .	1.6	55
121	Large eddy simulation study of the kinetic energy entrainment by energetic turbulent flow structures in large wind farms. Physics of Fluids, 2014, 26, .	1.6	91
122	Effect of downwind swells on offshore wind energy harvesting – A large-eddy simulation study. Renewable Energy, 2014, 70, 11-23.	4.3	59
123	The local topology of stream- and vortex lines in turbulent flows. Physics of Fluids, 2014, 26, 045107.	1.6	9
124	Inhibition of oil plume dilution in Langmuir ocean circulation. Geophysical Research Letters, 2014, 41, 1632-1638.	1.5	44
125	A wavenumber-frequency spectral model for atmospheric boundary layers. Journal of Physics: Conference Series, 2014, 524, 012104.	0.3	2
126	Deformation statistics of sub-Kolmogorov-scale ellipsoidal neutrally buoyant drops in isotropic turbulence. Journal of Fluid Mechanics, 2014, 754, 184-207.	1.4	34



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127	Experimental study of spectral energy fluxes in turbulence generated by a fractal, tree-like object. <i>Physics of Fluids</i> , 2013, 25, .	1.6	20
128	Orientation dynamics of small, triaxial ellipsoidal particles in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2013, 737, 571-596.	1.4	55
129	An Assessment of Dynamic Subgrid-Scale Sea-Surface Roughness Models. <i>Flow, Turbulence and Combustion</i> , 2013, 91, 541-563.	1.4	5
130	Generalized logarithmic law for high-order moments in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2013, 719, .	1.4	135
131	Synchronization of Chaos in Fully Developed Turbulence. <i>Physical Review Letters</i> , 2013, 110, 084102.	2.9	34
132	Dynamic modelling of sea-surface roughness for large-eddy simulation of wind over ocean wavefield. <i>Journal of Fluid Mechanics</i> , 2013, 726, 62-99.	1.4	64
133	Co-spectrum and mean velocity in turbulent boundary layers. <i>Physics of Fluids</i> , 2013, 25, .	1.6	43
134	Streamwise development of the wind turbine boundary layer over a model wind turbine array. <i>Physics of Fluids</i> , 2013, 25, .	1.6	25
135	Foreword: a special issue on turbulence and wind energy. <i>Journal of Turbulence</i> , 2013, 14, 53-54.	0.5	2
136	Multiscale Geometry and Scaling of the Turbulent-Nonturbulent Interface in High Reynolds Number Boundary Layers. <i>Physical Review Letters</i> , 2013, 111, 044501.	2.9	79
137	Flow visualization using momentum and energy transport tubes and applications to turbulent flow in wind farms. <i>Journal of Fluid Mechanics</i> , 2013, 715, 335-358.	1.4	72
138	Flux-freezing breakdown in high-conductivity magnetohydrodynamic turbulence. <i>Nature</i> , 2013, 497, 466-469.	13.7	143
139	Studying Lagrangian dynamics of turbulence using on-demand fluid particle tracking in a public turbulence database. <i>Journal of Turbulence</i> , 2012, 13, N12.	0.5	56
140	Effect of Free-stream Turbulence on the Flow Around a S809 Wind Turbine Blade. , 2012, , .		0
141	Modeling turbulent flow over fractal trees using renormalized numerical simulation: Alternate formulations and numerical experiments. <i>Physics of Fluids</i> , 2012, 24, .	1.6	33
142	The top-down model of wind farm boundary layers and its applications. <i>Journal of Turbulence</i> , 2012, 13, N7.	0.5	54
143	Germano identity-based subgrid-scale modeling: A brief survey of variations on a fertile theme. <i>Physics of Fluids</i> , 2012, 24, 121301.	1.6	19
144	Experimental study of the kinetic energy budget in a wind turbine streamtube. <i>Journal of Turbulence</i> , 2012, 13, N43.	0.5	23

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145	Statistical analysis of kinetic energy entrainment in a model wind turbine array boundary layer. <i>Journal of Renewable and Sustainable Energy</i> , 2012, 4, .	0.8	73
146	Coherent structures and associated subgrid-scale energy transfer in a rough-wall turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2012, 712, 92-128.	1.4	45
147	Data-intensive spatial filtering in large numerical simulation datasets. , 2012, , .		4
148	Turbulence Visualization at the Terascale on Desktop PCs. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2012, 18, 2169-2177.	2.9	29
149	Optimal turbine spacing in fully developed wind farm boundary layers. <i>Wind Energy</i> , 2012, 15, 305-317.	1.9	271
150	Near-Wake Turbulent Flow Structure and Mixing Length Downstream of a Fractal Tree. <i>Boundary-Layer Meteorology</i> , 2012, 143, 285-308.	1.2	40
151	Large-Eddy Simulation of Atmospheric Boundary-Layer Flow Over Fluvial-Like Landscapes Using a Dynamic Roughness Model. <i>Boundary-Layer Meteorology</i> , 2012, 144, 263-286.	1.2	25
152	Local and nonlocal pressure Hessian effects in real and synthetic fluid turbulence. <i>Physics of Fluids</i> , 2011, 23, .	1.6	11
153	Lagrangian Dynamics and Models of the Velocity Gradient Tensor in Turbulent Flows. <i>Annual Review of Fluid Mechanics</i> , 2011, 43, 219-245.	10.8	225
154	The Role of Large Scales of Turbulence in Wind Turbine Blades at Various Angles of Attack. , 2011, , .		1
155	A Multi-scale & Dynamic Method for Spatially Evolving Flows. <i>ERCOTAC Series</i> , 2011, , 219-227.	0.1	0
156	Scientific data management at the Johns Hopkins institute for data intensive engineering and science. <i>SIGMOD Record</i> , 2011, 39, 18-23.	0.7	3
157	A dynamic multi-scale approach for turbulent inflow boundary conditions in spatially developing flows. <i>Journal of Fluid Mechanics</i> , 2011, 670, 581-605.	1.4	66
158	The top-down model of wind farm boundary layers and its applications. , 2011, , .		0
159	Particle boundary layer above and downstream of an area source: scaling, simulations, and pollen transport. <i>Journal of Fluid Mechanics</i> , 2011, 683, 1-26.	1.4	34
160	Dynamic roughness model for large-eddy simulation of turbulent flow over multiscale, fractal-like rough surfaces. <i>Journal of Fluid Mechanics</i> , 2011, 679, 288-314.	1.4	91
161	Large Eddy Simulation study of a fully developed thermal wind-turbine array boundary layer. <i>ERCOTAC Series</i> , 2011, , 239-244.	0.1	5
162	FLOW OVER FRACTALS: DRAG FORCES AND NEAR WAKES. <i>Fractals</i> , 2011, 19, 387-399.	1.8	5

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163	Large eddy simulation study of scalar transport in fully developed wind-turbine array boundary layers. <i>Physics of Fluids</i> , 2011, 23, .	1.6	145
164	Lagrangian time correlations of vorticity alignments in isotropic turbulence: Observations and model predictions. <i>Physics of Fluids</i> , 2011, 23, .	1.6	23
165	Field study of the dynamics and modelling of subgrid-scale turbulence in a stable atmospheric surface layer over a glacier. <i>Journal of Fluid Mechanics</i> , 2010, 665, 480-515.	1.4	58
166	Recent fluid deformation closure for velocity gradient tensor dynamics in turbulence: Timescale effects and expansions. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 1241-1250.	1.3	24
167	Scaling of Conditional Lagrangian Time Correlation Functions of Velocity and Pressure Gradient Magnitudes in Isotropic Turbulence. <i>Flow, Turbulence and Combustion</i> , 2010, 85, 457-472.	1.4	9
168	A Large-Eddy Simulation Model for Boundary-Layer Flow Over Surfaces with Horizontally Resolved but Vertically Unresolved Roughness Elements. <i>Boundary-Layer Meteorology</i> , 2010, 137, 397-415.	1.2	48
169	Impact of Surface Flux Formulations and Geostrophic Forcing on Large-Eddy Simulations of Diurnal Atmospheric Boundary Layer Flow. <i>Journal of Applied Meteorology and Climatology</i> , 2010, 49, 1496-1516.	0.6	62
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