

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
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349
all docs

349
docs citations

349
times ranked

8144
citing authors

#	ARTICLE	IF	CITATIONS
1	Scale-Invariance and Turbulence Models for Large-Eddy Simulation. Annual Review of Fluid Mechanics, 2000, 32, 1-32.	10.8	1,091
2	A Lagrangian dynamic subgrid-scale model of turbulence. Journal of Fluid Mechanics, 1996, 319, 353.	1.4	992
3	Simple multifractal cascade model for fully developed turbulence. Physical Review Letters, 1987, 59, 1424-1427.	2.9	878
4	The multifractal nature of turbulent energy dissipation. Journal of Fluid Mechanics, 1991, 224, 429-484.	1.4	727
5	On the properties of similarity subgrid-scale models as deduced from measurements in a turbulent jet. Journal of Fluid Mechanics, 1994, 275, 83-119.	1.4	631
6	Large eddy simulation study of fully developed wind-turbine array boundary layers. Physics of Fluids, 2010, 22, .	1.6	622
7	A scale-dependent Lagrangian dynamic model for large eddy simulation of complex turbulent flows. Physics of Fluids, 2005, 17, 025105.	1.6	508
8	Grand challenges in the science of wind energy. Science, 2019, 366, .	6.0	482
9	A scale-dependent dynamic model for large-eddy simulation: application to a neutral atmospheric boundary layer. Journal of Fluid Mechanics, 2000, 415, 261-284.	1.4	473
10	A power-law flame wrinkling model for LES of premixed turbulent combustion Part I: non-dynamic formulation and initial tests. Combustion and Flame, 2002, 131, 159-180.	2.8	464
11	Analysis of turbulence in the orthonormal wavelet representation. Journal of Fluid Mechanics, 1991, 232, 469.	1.4	401
12	The fractal facets of turbulence. Journal of Fluid Mechanics, 1986, 173, 357-386.	1.4	375
13	Direct determination of the $f(\hat{l}^{\pm})$ singularity spectrum and its application to fully developed turbulence. Physical Review A, 1989, 40, 5284-5294.	1.0	373
14	A public turbulence database cluster and applications to study Lagrangian evolution of velocity increments in turbulence. Journal of Turbulence, 2008, 9, N31.	0.5	373
15	Stretching and quenching of flamelets in premixed turbulent combustion. Combustion and Flame, 1991, 86, 311-332.	2.8	361
16	Decaying turbulence in an active-grid-generated flow and comparisons with large-eddy simulation. Journal of Fluid Mechanics, 2003, 480, 129-160.	1.4	303
17	Flow Structure and Turbulence in Wind Farms. Annual Review of Fluid Mechanics, 2017, 49, 311-339.	10.8	300
18	Linear forcing in numerical simulations of isotropic turbulence: Physical space implementations and convergence properties. Physics of Fluids, 2005, 17, 095106.	1.6	288

#	ARTICLE	IF	CITATIONS
19	Optimal turbine spacing in fully developed wind farm boundary layers. <i>Wind Energy</i> , 2012, 15, 305-317.	1.9	271
20	Experimental study of the horizontally averaged flow structure in a model wind-turbine array boundary layer. <i>Journal of Renewable and Sustainable Energy</i> , 2010, 2, .	0.8	263
21	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
22	The multifractal spectrum of the dissipation field in turbulent flows. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1987, 2, 49-76.	0.5	221
23	Joint multifractal measures: Theory and applications to turbulence. <i>Physical Review A</i> , 1990, 41, 894-913.	1.0	221
24	Generalized Smagorinsky model for anisotropic grids. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 2306-2308.	1.6	216
25	A power-law flame wrinkling model for LES of premixed turbulent combustion Part II: dynamic formulation. <i>Combustion and Flame</i> , 2002, 131, 181-197.	2.8	205
26	Statistics of turbulence subgrid-scale stresses: Necessary conditions and experimental tests. <i>Physics of Fluids</i> , 1994, 6, 815-833.	1.6	196
27	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
28	Mixing, entrainment and fractal dimensions of surfaces in turbulent flows. <i>Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences</i> , 1989, 421, 79-108.	1.5	177
29	Large-eddy simulation of neutral atmospheric boundary layer flow over heterogeneous surfaces: Blending height and effective surface roughness. <i>Water Resources Research</i> , 2004, 40, .	1.7	173
30	Integral wall model for large eddy simulations of wall-bounded turbulent flows. <i>Physics of Fluids</i> , 2015, 27, .	1.6	164
31	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
32	Modeling Flow around Bluff Bodies and Predicting Urban Dispersion Using Large Eddy Simulation. <i>Environmental Science & Technology</i> , 2006, 40, 2653-2662.	4.6	160
33	Statistical geometry of subgrid-scale stresses determined from holographic particle image velocimetry measurements. <i>Journal of Fluid Mechanics</i> , 2002, 457, 35-78.	1.4	154
34	Multifractal Nature of the Dissipation Field of Passive Scalars in Fully Turbulent Flows. <i>Physical Review Letters</i> , 1988, 61, 74-77.	2.9	149
35	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
36	A concurrent precursor inflow method for Large Eddy Simulations and applications to finite length wind farms. <i>Renewable Energy</i> , 2014, 68, 46-50.	4.3	144

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37	Flux-freezing breakdown in high-conductivity magnetohydrodynamic turbulence. <i>Nature</i> , 2013, 497, 466-469.	13.7	143
38	Generalized logarithmic law for high-order moments in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2013, 719, .	1.4	135
39	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
40	Lagrangian Dynamics and Statistical Geometric Structure of Turbulence. <i>Physical Review Letters</i> , 2006, 97, 174501.	2.9	128
41	Modeling turbulent flow over fractal trees with renormalized numerical simulation. <i>Journal of Computational Physics</i> , 2007, 225, 427-448.	1.9	126
42	Modelling yawed wind turbine wakes: a lifting line approach. <i>Journal of Fluid Mechanics</i> , 2018, 841, .	1.4	122
43	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
44	Large-eddy simulation of a diurnal cycle of the atmospheric boundary layer: Atmospheric stability and scaling issues. <i>Water Resources Research</i> , 2006, 42, .	1.7	116
45	Data exploration of turbulence simulations using a database cluster. , 2007, , .		114
46	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
47	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
48	Singularities of the equations of fluid motion. <i>Physical Review A</i> , 1988, 38, 6287-6295.	1.0	103
49	Modeling the pressure Hessian and viscous Laplacian in turbulence: Comparisons with direct numerical simulation and implications on velocity gradient dynamics. <i>Physics of Fluids</i> , 2008, 20, .	1.6	97
50	Effects of turbine spacing on the power output of extended wind farms. <i>Wind Energy</i> , 2016, 19, 359-370.	1.9	96
51	Large-eddy simulation study of the logarithmic law for second- and higher-order moments in turbulent wall-bounded flow. <i>Journal of Fluid Mechanics</i> , 2014, 757, 888-907.	1.4	95
52	Wake-induced relative motion of bubbles rising in line. <i>International Journal of Multiphase Flow</i> , 1996, 22, 239-258.	1.6	94
53	Unobstructed particle image velocimetry measurements within an axial turbo-pump using liquid and blades with matched refractive indices. <i>Experiments in Fluids</i> , 2002, 33, 909-919.	1.1	94
54	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

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55	Large eddy simulation study of the kinetic energy entrainment by energetic turbulent flow structures in large wind farms. <i>Physics of Fluids</i> , 2014, 26, .	1.6	91
56	Shifted periodic boundary conditions for simulations of wall-bounded turbulent flows. <i>Physics of Fluids</i> , 2016, 28, .	1.6	91
57	A fractal model for large eddy simulation of turbulent flow. <i>Physica D: Nonlinear Phenomena</i> , 1999, 127, 198-232.	1.3	88
58	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
59	Subgrid-scale stresses and their modelling in a turbulent plane wake. <i>Journal of Fluid Mechanics</i> , 1997, 349, 253-293.	1.4	85
60	On the Parameterization of Surface Roughness at Regional Scales. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 216-227.	0.6	84
61	The dynamic Smagorinsky model and scale-dependent coefficients in the viscous range of turbulence. <i>Physics of Fluids</i> , 1997, 9, 3932-3934.	1.6	83
62	A Priori Field Study of the Subgrid-Scale Heat Fluxes and Dissipation in the Atmospheric Surface Layer. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 2673-2698.	0.6	83
63	A priori testing of a similarity model for large eddy simulations of turbulent premixed combustion. <i>Proceedings of the Combustion Institute</i> , 2002, 29, 2105-2111.	2.4	83
64	Measurement of $\mathcal{A}'(\hat{\pm})$ from scaling of histograms, and applications to dynamical systems and fully developed turbulence. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 137, 103-112.	0.9	82
65	Interface dimension in intermittent turbulence. <i>Physical Review A</i> , 1990, 41, 2246-2248.	1.0	82
66	Origin of Non-Gaussian Statistics in Hydrodynamic Turbulence. <i>Physical Review Letters</i> , 2005, 95, 164502.	2.9	81
67	A dynamic flame surface density model for large eddy simulation of turbulent premixed combustion. <i>Physics of Fluids</i> , 2004, 16, L91-L94.	1.6	79
68	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
69	Large eddy simulation studies of the effects of alignment and wind farm length. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, .	0.8	79
70	Evolution and modelling of subgrid scales during rapid straining of turbulence. <i>Journal of Fluid Mechanics</i> , 1999, 387, 281-320.	1.4	77
71	Large eddy simulation of pollen transport in the atmospheric boundary layer. <i>Journal of Aerosol Science</i> , 2009, 40, 241-255.	1.8	77
72	Effects of small-scale turbulent motions on the filtered velocity gradient tensor as deduced from holographic particle image velocimetry measurements. <i>Physics of Fluids</i> , 2002, 14, 2456.	1.6	73

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73	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
74	Spectral and hyper eddy viscosity in high-Reynolds-number turbulence. <i>Journal of Fluid Mechanics</i> , 2000, 421, 307-338.	1.4	72
75	A comparative quadrant analysis of turbulence in a plant canopy. <i>Water Resources Research</i> , 2007, 43, .	1.7	72
76	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
77	Large-eddy simulation of offshore wind farm. <i>Physics of Fluids</i> , 2014, 26, .	1.6	72
78	Assessment of blockage effects on the wake characteristics and power of wind turbines. <i>Renewable Energy</i> , 2016, 93, 340-352.	4.3	71
79	Scaling and multifractal properties of mixing in chaotic flows. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 1439-1456.	1.6	69
80	Intermittency and relative scaling of subgrid-scale energy dissipation in isotropic turbulence. <i>Physics of Fluids</i> , 1998, 10, 928-937.	1.6	69
81	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
82	Geometry and scale relationships in high Reynolds number turbulence determined from three-dimensional holographic velocimetry. <i>Physics of Fluids</i> , 2000, 12, 941-944.	1.6	68
83	Large-eddy simulation of plant canopy flows using plant-scale representation. <i>Boundary-Layer Meteorology</i> , 2007, 124, 183-203.	1.2	67
84	Large Eddy Simulations of Large Wind-Turbine Arrays in the Atmospheric Boundary Layer. , 2010, , .		67
85	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
86	Model-based receding horizon control of wind farms for secondary frequency regulation. <i>Wind Energy</i> , 2017, 20, 1261-1275.	1.9	66
87	Transition between viscous and inertial-range scaling of turbulence structure functions. <i>Physical Review E</i> , 1996, 54, 3657-3663.	0.8	65
88	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
89	Coupled wake boundary layer model of wind-farms. <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, .	0.8	65
90	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

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91	HATS: Field Observations to Obtain Spatially Filtered Turbulence Fields from Crosswind Arrays of Sonic Anemometers in the Atmospheric Surface Layer*. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 1566-1581.	0.6	62
92	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
93	Pressure Hessian and viscous contributions to velocity gradient statistics based on Gaussian Random fields. <i>Journal of Fluid Mechanics</i> , 2014, 756, 191-225.	1.4	62
94	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
95	Big wind power: seven questions for turbulence research. <i>Journal of Turbulence</i> , 2019, 20, 2-20.	0.5	61
96	Dual spectra and mixed energy cascade of turbulence in the wavelet representation. <i>Physical Review Letters</i> , 1991, 66, 1450-1453.	2.9	60
97	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
98	A functional form for the energy spectrum parametrizing bottleneck and intermittency effects. <i>Physics of Fluids</i> , 2008, 20, .	1.6	59
99	Pollen clumping and wind dispersal in an invasive angiosperm. <i>American Journal of Botany</i> , 2009, 96, 1703-1711.	0.8	59
100	Effect of downwind swells on offshore wind energy harvesting – A large-eddy simulation study. <i>Renewable Energy</i> , 2014, 70, 11-23.	4.3	59
101	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
102	Quantitative Visualization of the Flow in a Centrifugal Pump With Diffuser Vanes II: Addressing Passage-Averaged and Large-Eddy Simulation Modeling Issues in Turbomachinery Flows. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2000, 122, 108-116.	0.8	57
103	A Dynamic LES Scheme for the Vorticity Transport Equation: Formulation and a Priori Tests. <i>Journal of Computational Physics</i> , 1998, 145, 693-730.	1.9	56
104	Numerical study of dynamic Smagorinsky models in large-eddy simulation of the atmospheric boundary layer: Validation in stable and unstable conditions. <i>Water Resources Research</i> , 2006, 42, .	1.7	56
105	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
106	On the Magnitude and Variability of Subgrid-Scale Eddy-Diffusion Coefficients in the Atmospheric Surface Layer. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 2372-2388.	0.6	55
107	Orientation dynamics of small, triaxial ellipsoidal particles in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2013, 737, 571-596.	1.4	55
108	Decay of homogeneous, nearly isotropic turbulence behind active fractal grids. <i>Physics of Fluids</i> , 2014, 26, .	1.6	55

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109	Filtered lifting line theory and application to the actuator line model. <i>Journal of Fluid Mechanics</i> , 2019, 863, 269-292.	1.4	55
110	The top-down model of wind farm boundary layers and its applications. <i>Journal of Turbulence</i> , 2012, 13, N7.	0.5	54
111	Multiscale analysis of fluxes at the turbulent/non-turbulent interface in high Reynolds number boundary layers. <i>Physics of Fluids</i> , 2014, 26, .	1.6	54
112	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
113	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
114	Experimental Investigation of Unsteady Flow Field Within a Two-Stage Axial Turbomachine Using Particle Image Velocimetry. <i>Journal of Turbomachinery</i> , 2002, 124, 542-552.	0.9	53
115	A Wake Modeling Paradigm for Wind Farm Design and Control. <i>Energies</i> , 2019, 12, 2956.	1.6	53
116	Alignment Trends of Velocity Gradients and Subgrid-Scale Fluxes in the Turbulent Atmospheric Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2003, 109, 59-83.	1.2	52
117	The flow field around a freely swimming copepod in steady motion. Part I: Theoretical analysis. <i>Journal of Plankton Research</i> , 2002, 24, 167-189.	0.8	50
118	The flow field around a freely swimming copepod in steady motion. Part II: Numerical simulation. <i>Journal of Plankton Research</i> , 2002, 24, 191-213.	0.8	50
119	An Advanced Actuator Line Method for Wind Energy Applications and Beyond. , 2017, , .		50
120	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
121	Statistics of filtered velocity in grid and wake turbulence. <i>Physics of Fluids</i> , 2000, 12, 1143-1165.	1.6	47
122	Atmospheric stability effect on subgrid-scale physics for large-eddy simulation. <i>Advances in Water Resources</i> , 2001, 24, 1085-1102.	1.7	47
123	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
124	Spatial correlations in turbulence: Predictions from the multifractal formalism and comparison with experiments. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 158-172.	1.6	46
125	Dynamic LES of Colliding Vortex Rings Using a 3D Vortex Method. <i>Journal of Computational Physics</i> , 1999, 152, 305-345.	1.9	46
126	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

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127	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
128	Title is missing!. <i>Flow, Turbulence and Combustion</i> , 1999, 62, 201-225.	1.4	45
129	Field Experimental Study of Dynamic Smagorinsky Models in the Atmospheric Surface Layer. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 2296-2307.	0.6	45
130	Scale interactions of turbulence subjected to a straining-relaxation-destraining cycle. <i>Journal of Fluid Mechanics</i> , 2006, 562, 123.	1.4	45
131	Turbulent kinetic energy budgets in a model canopy: comparisons between LES and wind-tunnel experiments. <i>Environmental Fluid Mechanics</i> , 2008, 8, 73-95.	0.7	45
132	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
133	Fractal Model for Coarse-Grained Nonlinear Partial Differential Equations. <i>Physical Review Letters</i> , 1997, 78, 867-870.	2.9	44
134	Inhibition of oil plume dilution in Langmuir ocean circulation. <i>Geophysical Research Letters</i> , 2014, 41, 1632-1638.	1.5	44
135	Turbulent Flow Structure Inside a Canopy with Complex Multi-Scale Elements. <i>Boundary-Layer Meteorology</i> , 2015, 155, 435-457.	1.2	44
136	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
137	Co-spectrum and mean velocity in turbulent boundary layers. <i>Physics of Fluids</i> , 2013, 25, .	1.6	43
138	Dynamic Smagorinsky model on anisotropic grids. <i>Physics of Fluids</i> , 1997, 9, 1856-1858.	1.6	41
139	A Hybrid Spectral/Finite-Volume Algorithm for Large-Eddy Simulation of Scalars in the Atmospheric Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2008, 128, 473-484.	1.2	41
140	Subgrid-Scale Dynamics of Water Vapour, Heat, and Momentum over a Lake. <i>Boundary-Layer Meteorology</i> , 2008, 128, 205-228.	1.2	40
141	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
142	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
143	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
144	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

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145	Fractal dimension of velocity signals in high-Reynolds-number hydrodynamic turbulence. <i>Physical Review E</i> , 1995, 51, 5594-5608.	0.8	39
146	Scale dependence of subgrid-scale model coefficients: An a priori study. <i>Physics of Fluids</i> , 2008, 20, 115106.	1.6	38
147	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
148	On the Lagrangian nature of the turbulence energy cascade. <i>Physics of Fluids</i> , 1994, 6, 2820-2825.	1.6	37
149	Two-point statistics of multifractal measures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1990, 164, 564-574.	1.2	36
150	Numerical study of the feeding current around a copepod. <i>Journal of Plankton Research</i> , 1999, 21, 1391-1421.	0.8	36
151	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
152	Passive scalar anisotropy in a heated turbulent wake: new observations and implications for large-eddy simulations. <i>Journal of Fluid Mechanics</i> , 2001, 442, 161-170.	1.4	35
153	Chemoreception and the deformation of the active space in freely swimming copepods: a numerical study. <i>Journal of Plankton Research</i> , 2002, 24, 495-510.	0.8	35
154	Intermittency trends and Lagrangian evolution of non-Gaussian statistics in turbulent flow and scalar transport. <i>Journal of Fluid Mechanics</i> , 2006, 558, 133.	1.4	35
155	A minimal multiscale Lagrangian map approach to synthesize non-Gaussian turbulent vector fields. <i>Physics of Fluids</i> , 2006, 18, 075104.	1.6	35
156	Lagrangian Refined Kolmogorov Similarity Hypothesis for Gradient Time Evolution and Correlation in Turbulent Flows. <i>Physical Review Letters</i> , 2010, 104, 084502.	2.9	35
157	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
158	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
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	Synchronization of Chaos in Fully Developed Turbulence. <i>Physical Review Letters</i> , 2013, 110, 084102.	2.9	34
161	Deformation statistics of sub-Kolmogorov-scale ellipsoidal neutrally buoyant drops in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2014, 754, 184-207.	1.4	34
162	The fractal geometry of interfaces and the multifractal distribution of dissipation in fully turbulent flows. <i>Pure and Applied Geophysics</i> , 1989, 131, 43-60.	0.8	33

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163	Experimental study of similarity subgrid-scale models of turbulence in the far-field of a jet. <i>Flow, Turbulence and Combustion</i> , 1995, 54, 177-190.	0.2	33
164	Direct mechanical torque sensor for model wind turbines. <i>Measurement Science and Technology</i> , 2010, 21, 105206.	1.4	33
165	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
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