

# Charles Meneveau

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

326  
papers

18,463  
citations

66  
h-index

126  
g-index

349  
ext. papers

21,020  
ext. citations

3.8  
avg, IF

7.24  
L-index

#	Paper	IF	Citations
326	Two-point stress-strain-rate correlation structure and non-local eddy viscosity in turbulent flows. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 914,	3.7	10
325	The area localized coupled model for analytical mean flow prediction in arbitrary wind farm geometries. <i>Journal of Renewable and Sustainable Energy</i> , <b>2021</b> , 13, 033305	2.5	2
324	Large-eddy simulation of wind turbines immersed in the wake of a cube-shaped building. <i>Renewable Energy</i> , <b>2021</b> , 163, 1063-1077	8.1	14
323	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> , <b>2020</b> , 117, 3461-3468	11.5	3
322	Coupled population balance and large eddy simulation model for polydisperse droplet evolution in a turbulent round jet. <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	4
321	Spatio-temporal dynamics of turbulent separation bubbles. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 883,	3.7	14
320	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> , <b>2020</b> , 32, 101903	4.4	78
319	Large eddy simulation study of extended wind farms with large inter turbine spacing. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1618, 062011	0.3	0
318	Generation and decay of counter-rotating vortices downstream of yawed wind turbines in the atmospheric boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 903,	3.7	1
317	A note on fitting a generalised Moody diagram for wall modelled large-eddy simulations. <i>Journal of Turbulence</i> , <b>2020</b> , 21, 650-673	2.1	2
316	A Wake Modeling Paradigm for Wind Farm Design and Control. <i>Energies</i> , <b>2019</b> , 12, 2956	3.1	23
315	A population balance model for large eddy simulation of polydisperse droplet evolution. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 878, 700-739	3.7	24
314	Comprehensive shear stress analysis of turbulent boundary layer profiles. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 879, 360-389	3.7	7
313	Filtered lifting line theory and application to the actuator line model. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 863, 269-292	3.7	31
312	Big wind power: seven questions for turbulence research. <i>Journal of Turbulence</i> , <b>2019</b> , 20, 2-20	2.1	32
311	Hierarchical random additive model for wall-bounded flows at high Reynolds numbers. <i>Fluid Dynamics Research</i> , <b>2019</b> , 51, 011405	1.2	6
310	Filtered actuator disks: Theory and application to wind turbine models in large eddy simulation. <i>Wind Energy</i> , <b>2019</b> , 22, 1414-1420	3.4	14

309	Grand challenges in the science of wind energy. <i>Science</i> , <b>2019</b> , 366,	33.3	198
308	Material Transport in the Ocean Mixed Layer: Recent Developments Enabled by Large Eddy Simulations. <i>Reviews of Geophysics</i> , <b>2019</b> , 57, 1338-1371	23.1	7
307	Application of a self-organizing map to identify the turbulent-boundary-layer interface in a transitional flow. <i>Physical Review Fluids</i> , <b>2019</b> , 4,	2.8	16
306	Modelling yawed wind turbine wakes: a lifting line approach. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 841,	3.7	63
305	Geometry and scaling laws of excursion and iso-sets of enstrophy and dissipation in isotropic turbulence. <i>Journal of Turbulence</i> , <b>2018</b> , 19, 297-321	2.1	0
304	Large Eddy Simulation of Heat Entrainment Under Arctic Sea Ice. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 287-304	3.3	5
303	Predicting viscous-range velocity gradient dynamics in large-eddy simulations of turbulence. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 837, 80-114	3.7	13
302	Effect of filter type on the statistics of energy transfer between resolved and subfilter scales from a-priori analysis of direct numerical simulations of isotropic turbulence. <i>Journal of Turbulence</i> , <b>2018</b> , 19, 167-197	2.1	35
301	Modeling space-time correlations of velocity fluctuations in wind farms. <i>Wind Energy</i> , <b>2018</b> , 21, 474-487	3.4	14
300	Geometric decomposition of the conformation tensor in viscoelastic turbulence. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 842, 395-427	3.7	20
299	Comparison of wind farm large eddy simulations using actuator disk and actuator line models with wind tunnel experiments. <i>Renewable Energy</i> , <b>2018</b> , 116, 470-478	8.1	94
298	The restricted nonlinear large eddy simulation approach to reduced-order wind farm modeling. <i>Journal of Renewable and Sustainable Energy</i> , <b>2018</b> , 10, 043307	2.5	3
297	Large Eddy Simulation of a wind tunnel wind farm experiment with one hundred static turbine models. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1037, 062006	0.3	3
296	Multiscale analysis of the invariants of the velocity gradient tensor in isotropic turbulence. <i>Physical Review Fluids</i> , <b>2018</b> , 3,	2.8	13
295	Preferential concentration of noninertial buoyant particles in the ocean mixed layer under free convection. <i>Physical Review Fluids</i> , <b>2018</b> , 3,	2.8	7
294	Numerical study of the effects of chemical dispersant on oil transport from an idealized underwater blowout. <i>Physical Review Fluids</i> , <b>2018</b> , 3,	2.8	11
293	Effect of layout on asymptotic boundary layer regime in deep wind farms. <i>Physical Review Fluids</i> , <b>2018</b> , 3,	2.8	4
292	Wind farms providing secondary frequency regulation: evaluating the performance of model-based receding horizon control. <i>Wind Energy Science</i> , <b>2018</b> , 3, 11-24	3.2	7

291	A restricted nonlinear large eddy simulation model for high Reynolds number flows. <i>Journal of Turbulence</i> , <b>2018</b> , 19, 141-166	2.1	5
290	A Turbulence Velocity Scale for Predicting the Fate of Buoyant Materials in the Oceanic Mixed Layer. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 11,817-11,826	4.9	9
289	<b>2018</b> ,		4
288	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> , <b>2018</b> , 10, 033301	2.5	30
287	Response of a Laminar Separation Bubble to Zero-Net Mass Flux Actuation <b>2018</b> ,		1
286	Benefits of collocating vertical-axis and horizontal-axis wind turbines in large wind farms. <i>Wind Energy</i> , <b>2017</b> , 20, 45-62	3.4	33
285	An Advanced Actuator Line Method for Wind Energy Applications and Beyond <b>2017</b> ,		23
284	Optimal smoothing length scale for actuator line models of wind turbine blades based on Gaussian body force distribution. <i>Wind Energy</i> , <b>2017</b> , 20, 1083-1096	3.4	63
283	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> , <b>2017</b> , 375,	3	9
282	Restricted Euler dynamics along trajectories of small inertial particles in turbulence. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 816,	3.7	2
281	Model-based receding horizon control of wind farms for secondary frequency regulation. <i>Wind Energy</i> , <b>2017</b> , 20, 1261-1275	3.4	40
280	Wind farm power fluctuations and spatial sampling of turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 823, 329-344	3.7	19
279	Aerodynamic Properties of Rough Surfaces with High Aspect-Ratio Roughness Elements: Effect of Aspect Ratio and Arrangements. <i>Boundary-Layer Meteorology</i> , <b>2017</b> , 163, 203-224	3.4	23
278	Measurement of unsteady loading and power output variability in a micro wind farm model in a wind tunnel. <i>Experiments in Fluids</i> , <b>2017</b> , 58, 1	2.5	41
277	Dynamic wake modeling and state estimation for improved model-based receding horizon control of wind farms <b>2017</b> ,		14
276	Combining economic and fluid dynamic models to determine the optimal spacing in very large wind farms. <i>Wind Energy</i> , <b>2017</b> , 20, 465-477	3.4	22
275	Flow Structure and Turbulence in Wind Farms. <i>Annual Review of Fluid Mechanics</i> , <b>2017</b> , 49, 311-339	22	179
274	Turbulence in the Era of Big Data: Recent Experiences with Sharing Large Datasets <b>2017</b> , 497-507		2

273	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> , <b>2017</b> , 2,	2.8	10
272	Structure function tensor scaling in the logarithmic region derived from the attached eddy model of wall-bounded turbulent flows. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	16
271	Turbulence intermittency in a multiple-time-scale Navier-Stokes-based reduced model. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	12
270	Extreme Event Analysis in Next Generation Simulation Architectures. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 277-293	0.9	4
269	Recycling inflow method for simulations of spatially evolving turbulent boundary layers over rough surfaces. <i>Journal of Turbulence</i> , <b>2016</b> , 17, 75-93	2.1	19
268	Effects of swell on transport and dispersion of oil plumes within the ocean mixed layer. <i>Journal of Geophysical Research: Oceans</i> , <b>2016</b> , 121, 3564-3578	3.3	16
267	Large-deviation statistics of vorticity stretching in isotropic turbulence. <i>Physical Review E</i> , <b>2016</b> , 93, 033118	1.8	11
266	Wind farms providing secondary frequency regulation: Evaluating the performance of model-based receding horizon control. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 753, 052012	0.3	11
265	ENDLESS: An extended nonperiodic domain large-eddy simulation approach for scalar plumes. <i>Ocean Modelling</i> , <b>2016</b> , 101, 121-132	3	9
264	Effects of turbine spacing on the power output of extended wind-farms. <i>Wind Energy</i> , <b>2016</b> , 19, 359-370	3.4	64
263	Wind Farm Large-Eddy Simulations on Very Coarse Grid Resolutions using an Actuator Line Model <b>2016</b> ,		4
262	Measuring power output intermittency and unsteady loading in a micro wind farm model <b>2016</b> ,		3
261	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> , <b>2016</b> , 17, 181-215	2.1	86
260	Assessment of blockage effects on the wake characteristics and power of wind turbines. <i>Renewable Energy</i> , <b>2016</b> , 93, 340-352	8.1	49
259	Hierarchical random additive process and logarithmic scaling of generalized high order, two-point correlations in turbulent boundary layer flow. <i>Physical Review Fluids</i> , <b>2016</b> , 1,	2.8	26
258	Extended self-similarity in moment-generating-functions in wall-bounded turbulence at high Reynolds number. <i>Physical Review Fluids</i> , <b>2016</b> , 1,	2.8	22
257	Wind tunnel study of the power output spectrum in a micro wind farm. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 753, 072002	0.3	2
256	Generalized coupled wake boundary layer model: applications and comparisons with field and LES data for two wind farms. <i>Wind Energy</i> , <b>2016</b> , 19, 2023-2040	3.4	28

255	A closure for Lagrangian velocity gradient evolution in turbulence using recent-deformation mapping of initially Gaussian fields. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 804, 387-419	3.7	21
254	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> , <b>2016</b> , 753, 082014	0.3	9
253	Shifted periodic boundary conditions for simulations of wall-bounded turbulent flows. <i>Physics of Fluids</i> , <b>2016</b> , 28, 025112	4.4	53
252	Wake structure in actuator disk models of wind turbines in yaw under uniform inflow conditions. <i>Journal of Renewable and Sustainable Energy</i> , <b>2016</b> , 8, 043301	2.5	115
251	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> , <b>2016</b> , 94, 510-523	8.1	33
250	Exponential roughness layer and analytical model for turbulent boundary layer flow over rectangular-prism roughness elements. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 789, 127-165	3.7	72
249	Large-eddy simulation and parameterization of buoyant plume dynamics in stratified flow. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 794, 798-833	3.7	36
248	Moment generating functions and scaling laws in the inertial layer of turbulent wall-bounded flows. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 791,	3.7	23
247	Spatial Characteristics of Roughness Sublayer Mean Flow and Turbulence Over a Realistic Urban Surface. <i>Boundary-Layer Meteorology</i> , <b>2016</b> , 160, 425-452	3.4	70
246	Turbulent Inflow Precursor Method with Time-Varying Direction for Large-Eddy Simulations and Applications to Wind Farms. <i>Boundary-Layer Meteorology</i> , <b>2016</b> , 159, 305-328	3.4	54
245	Large eddy simulations and parameterisation of roughness element orientation and flow direction effects in rough wall boundary layers. <i>Journal of Turbulence</i> , <b>2016</b> , 17, 1072-1085	2.1	17
244	Standard logarithmic mean velocity distribution in a band-limited restricted nonlinear model of turbulent flow in a half-channel. <i>Physics of Fluids</i> , <b>2015</b> , 27, 011702	4.4	20
243	Integral wall model for large eddy simulations of wall-bounded turbulent flows. <i>Physics of Fluids</i> , <b>2015</b> , 27, 025112	4.4	108
242	Altering Kinetic Energy Entrainment in Large Eddy Simulations of Large Wind Farms Using Unconventional Wind Turbine Actuator Forcing. <i>Energies</i> , <b>2015</b> , 8, 370-386	3.1	24
241	Spatio-temporal spectra in the logarithmic layer of wall turbulence: large-eddy simulations and simple models. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 769,	3.7	37
240	Turbulent Flow Structure Inside a Canopy with Complex Multi-Scale Elements. <i>Boundary-Layer Meteorology</i> , <b>2015</b> , 155, 435-457	3.4	36
239	Simulation of Boundary Layer flows over Biofouled Surfaces <b>2015</b> ,		2
238	Large-Eddy Simulation and Single-Column Modeling of Thermally Stratified Wind Turbine Arrays for Fully Developed, Stationary Atmospheric Conditions. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2015</b> , 32, 1144-1162	2	18

237	Open Simulation Laboratories [Guest editors' introduction]. <i>Computing in Science and Engineering</i> , <b>2015</b> , 17, 7-9	1.5	1
236	Scaling of second- and higher-order structure functions in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 769, 654-686	3.7	51
235	Large-deviation joint statistics of the finite-time Lyapunov spectrum in isotropic turbulence. <i>Physics of Fluids</i> , <b>2015</b> , 27, 085110	4.4	25
234	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> , <b>2015</b> , 625, 012024	0.3	10
233	Oil plumes and dispersion in Langmuir, upper-ocean turbulence: Large-eddy simulations and K-profile parameterization. <i>Journal of Geophysical Research: Oceans</i> , <b>2015</b> , 120, 4729-4759	3.3	26
232	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> , <b>2015</b> , 625, 012004	0.3	8
231	Decaying turbulence in the presence of a shearless uniform kinetic energy gradient. <i>Journal of Turbulence</i> , <b>2015</b> , 16, 442-459	2.1	9
230	Height-dependence of spatio-temporal spectra of wall-bounded turbulence [LES results and model predictions]. <i>Journal of Turbulence</i> , <b>2015</b> , 16, 937-949	2.1	7
229	Quantifying the Impact of Subgrid Scale Models in Actuator-Line Based LES of Wind Turbine Wakes in Laminar and Turbulent Inflow. <i>ERCFTAC Series</i> , <b>2015</b> , 169-175	0.1	2
228	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> , <b>2015</b> , 142, 246-257	3.7	19
227	Coupled wake boundary layer model of wind-farms. <i>Journal of Renewable and Sustainable Energy</i> , <b>2015</b> , 7, 023115	2.5	50
226	Role of subgrid-scale modeling in large eddy simulation of wind turbine wake interactions. <i>Renewable Energy</i> , <b>2015</b> , 77, 386-399	8.1	54
225	Large-eddy simulation of offshore wind farm. <i>Physics of Fluids</i> , <b>2014</b> , 26, 025101	4.4	52
224	Decay of homogeneous, nearly isotropic turbulence behind active fractal grids. <i>Physics of Fluids</i> , <b>2014</b> , 26, 025112	4.4	44
223	Large eddy simulation study of the kinetic energy entrainment by energetic turbulent flow structures in large wind farms. <i>Physics of Fluids</i> , <b>2014</b> , 26, 025113	4.4	68
222	Effect of downwind swells on offshore wind energy harvesting [A large-eddy simulation study]. <i>Renewable Energy</i> , <b>2014</b> , 70, 11-23	8.1	38
221	The local topology of stream- and vortex lines in turbulent flows. <i>Physics of Fluids</i> , <b>2014</b> , 26, 045107	4.4	8
220	Inhibition of oil plume dilution in Langmuir ocean circulation. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 1632-1638	4.9	33

219	A wavenumber-frequency spectral model for atmospheric boundary layers. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 524, 012104	0.3	2
218	Deformation statistics of sub-Kolmogorov-scale ellipsoidal neutrally buoyant drops in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 754, 184-207	3.7	27
217	Large eddy simulation studies of the effects of alignment and wind farm length. <i>Journal of Renewable and Sustainable Energy</i> , <b>2014</b> , 6, 023105	2.5	60
216	Multiscale analysis of fluxes at the turbulent/non-turbulent interface in high Reynolds number boundary layers. <i>Physics of Fluids</i> , <b>2014</b> , 26, 015105	4.4	39
215	A control algorithm for statistically stationary large-eddy simulations of thermally stratified boundary layers. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2014</b> , 140, 2017-2022	6.4	24
214	Temporal structure of aggregate power fluctuations in large-eddy simulations of extended wind-farms. <i>Journal of Renewable and Sustainable Energy</i> , <b>2014</b> , 6, 043102	2.5	27
213	Pressure Hessian and viscous contributions to velocity gradient statistics based on Gaussian random fields. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 756, 191-225	3.7	47
212	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> , <b>2014</b> , 757, 888-907	3.7	81
211	A concurrent precursor inflow method for Large Eddy Simulations and applications to finite length wind farms. <i>Renewable Energy</i> , <b>2014</b> , 68, 46-50	8.1	105
210	Experimental study of spectral energy fluxes in turbulence generated by a fractal, tree-like object. <i>Physics of Fluids</i> , <b>2013</b> , 25, 110810	4.4	18
209	Orientation dynamics of small, triaxial ellipsoidal particles in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 737, 571-596	3.7	48
208	An Assessment of Dynamic Subgrid-Scale Sea-Surface Roughness Models. <i>Flow, Turbulence and Combustion</i> , <b>2013</b> , 91, 541-563	2.5	3
207	Generalized logarithmic law for high-order moments in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 719,	3.7	105
206	Synchronization of chaos in fully developed turbulence. <i>Physical Review Letters</i> , <b>2013</b> , 110, 084102	7.4	21
205	Dynamic modelling of sea-surface roughness for large-eddy simulation of wind over ocean wavefield. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 726, 62-99	3.7	49
204	Co-spectrum and mean velocity in turbulent boundary layers. <i>Physics of Fluids</i> , <b>2013</b> , 25, 091702	4.4	35
203	Streamwise development of the wind turbine boundary layer over a model wind turbine array. <i>Physics of Fluids</i> , <b>2013</b> , 25, 085108	4.4	19
202	Foreword: a special issue on turbulence and wind energy. <i>Journal of Turbulence</i> , <b>2013</b> , 14, 53-54	2.1	1



201	Multiscale geometry and scaling of the turbulent-nonturbulent interface in high Reynolds number boundary layers. <i>Physical Review Letters</i> , <b>2013</b> , 111, 044501	7.4	60
200	Flow visualization using momentum and energy transport tubes and applications to turbulent flow in wind farms. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 715, 335-358	3.7	55
199	Flux-freezing breakdown in high-conductivity magnetohydrodynamic turbulence. <i>Nature</i> , <b>2013</b> , 497, 466-9	50.4	112
198	Coherent structures and associated subgrid-scale energy transfer in a rough-wall turbulent channel flow. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 712, 92-128	3.7	39
197	Data-intensive spatial filtering in large numerical simulation datasets <b>2012</b> ,		4
196	Turbulence Visualization at the Terascale on Desktop PCs. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2012</b> , 18, 2169-77	4	21
195	Optimal turbine spacing in fully developed wind farm boundary layers. <i>Wind Energy</i> , <b>2012</b> , 15, 305-317	3.4	198
194	Near-Wake Turbulent Flow Structure and Mixing Length Downstream of a Fractal Tree. <i>Boundary-Layer Meteorology</i> , <b>2012</b> , 143, 285-308	3.4	33
193	Large-Eddy Simulation of Atmospheric Boundary-Layer Flow Over Fluvial-Like Landscapes Using a Dynamic Roughness Model. <i>Boundary-Layer Meteorology</i> , <b>2012</b> , 144, 263-286	3.4	24
192	Studying Lagrangian dynamics of turbulence using on-demand fluid particle tracking in a public turbulence database. <i>Journal of Turbulence</i> , <b>2012</b> , 13, N12	2.1	47
191	Free-Stream Turbulence Effects on the Flow around an S809 Wind Turbine Airfoil. <i>Springer Proceedings in Physics</i> , <b>2012</b> , 275-279	0.2	1
190	Modeling turbulent flow over fractal trees using renormalized numerical simulation: Alternate formulations and numerical experiments. <i>Physics of Fluids</i> , <b>2012</b> , 24, 125105	4.4	27
189	The top-down model of wind farm boundary layers and its applications. <i>Journal of Turbulence</i> , <b>2012</b> , 13, N7	2.1	45
188	Germano identity-based subgrid-scale modeling: A brief survey of variations on a fertile theme. <i>Physics of Fluids</i> , <b>2012</b> , 24, 121301	4.4	17
187	Experimental study of the kinetic energy budget in a wind turbine streamtube. <i>Journal of Turbulence</i> , <b>2012</b> , 13, N43	2.1	19
186	Statistical analysis of kinetic energy entrainment in a model wind turbine array boundary layer. <i>Journal of Renewable and Sustainable Energy</i> , <b>2012</b> , 4, 063105	2.5	56
185	Lagrangian Dynamics and Models of the Velocity Gradient Tensor in Turbulent Flows. <i>Annual Review of Fluid Mechanics</i> , <b>2011</b> , 43, 219-245	22	167
184	A Web-Services Accessible Turbulence Database and Application to A-Priori Testing of a Matrix Exponential Subgrid Model. <i>ERCOTAC Series</i> , <b>2011</b> , 21-27	0.1	

183	The Role of Large Scales of Turbulence in Wind Turbine Blades at Various Angles of Attack <b>2011</b> ,		1
182	A Multi-scale & Dynamic Method for Spatially Evolving Flows. <i>ERCRAFTAC Series</i> , <b>2011</b> , 219-227	0.1	
181	Scientific data management at the Johns Hopkins institute for data intensive engineering and science. <i>SIGMOD Record</i> , <b>2011</b> , 39, 18-23	1.1	2
180	A dynamic multi-scale approach for turbulent inflow boundary conditions in spatially developing flows. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 670, 581-605	3.7	49
179	Particle boundary layer above and downstream of an area source: scaling, simulations, and pollen transport. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 683, 1-26	3.7	29
178	Local and nonlocal pressure Hessian effects in real and synthetic fluid turbulence. <i>Physics of Fluids</i> , <b>2011</b> , 23, 095108	4.4	9
177	Dynamic roughness model for large-eddy simulation of turbulent flow over multiscale, fractal-like rough surfaces. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 679, 288-314	3.7	73
176	Large Eddy Simulation study of a fully developed thermal wind-turbine array boundary layer. <i>ERCRAFTAC Series</i> , <b>2011</b> , 239-244	0.1	5
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