

# Philipp Schlatter

## List of Publications by Citations

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224  
papers

6,666  
citations

40  
h-index

75  
g-index

237  
ext. papers

8,283  
ext. citations

2.5  
avg, IF

6.36  
L-index

#	Paper	IF	Citations
224	Spectral analysis of nonlinear flows. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 641, 115-127	3.7	1064
223	Assessment of direct numerical simulation data of turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 659, 116-126	3.7	483
222	Transition in boundary layers subject to free-stream turbulence. <i>Journal of Fluid Mechanics</i> , <b>2004</b> , 517, 167-198	3.7	263
221	Steady solutions of the Navier-Stokes equations by selective frequency damping. <i>Physics of Fluids</i> , <b>2006</b> , 18, 068102	4.4	186
220	Direct Numerical Simulation of Turbulent Pipe Flow at Moderately High Reynolds Numbers. <i>Flow, Turbulence and Combustion</i> , <b>2013</b> , 91, 475-495	2.5	169
219	Turbulent boundary layers up to $Re_{\tau} \approx 2500$ studied through simulation and experiment. <i>Physics of Fluids</i> , <b>2009</b> , 21, 051702	4.4	161
218	Turbulent boundary layers at moderate Reynolds numbers: inflow length and tripping effects. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 710, 5-34	3.7	160
217	Global stability of a jet in crossflow. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 624, 33-44	3.7	148
216	Formation of turbulent patterns near the onset of transition in plane Couette flow. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 650, 119-129	3.7	125
215	On streak breakdown in bypass transition. <i>Physics of Fluids</i> , <b>2008</b> , 20, 101505	4.4	112
214	Simulation and validation of a spatially evolving turbulent boundary layer up to. <i>International Journal of Heat and Fluid Flow</i> , <b>2014</b> , 47, 57-69	2.4	106
213	LES of transitional flows using the approximate deconvolution model. <i>International Journal of Heat and Fluid Flow</i> , <b>2004</b> , 25, 549-558	2.4	99
212	Wall accumulation and spatial localization in particle-laden wall flows. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 699, 50-78	3.7	95
211	Mutual inductance instability of the tip vortices behind a wind turbine. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 755, 705-731	3.7	88
210	Quantifying the interaction between large and small scales in wall-bounded turbulent flows: A note of caution. <i>Physics of Fluids</i> , <b>2010</b> , 22, 051704	4.4	88
209	Predictions of turbulent shear flows using deep neural networks. <i>Physical Review Fluids</i> , <b>2019</b> , 4,	2.8	86
208	Simulations of spatially evolving turbulent boundary layers up to. <i>International Journal of Heat and Fluid Flow</i> , <b>2010</b> , 31, 251-261	2.4	84

207	On the fluctuating wall-shear stress in zero pressure-gradient turbulent boundary layer flows. <i>Physics of Fluids</i> , <b>2011</b> , 23, 021704	4.4	83
206	Aspect ratio effects in turbulent duct flows studied through direct numerical simulation. <i>Journal of Turbulence</i> , <b>2014</b> , 15, 677-706	2.1	74
205	Oblique laminar-turbulent interfaces in plane shear flows. <i>Physical Review Letters</i> , <b>2013</b> , 110, 034502	7.4	71
204	Rare backflow and extreme wall-normal velocity fluctuations in near-wall turbulence. <i>Physics of Fluids</i> , <b>2012</b> , 24, 035110	4.4	71
203	History effects and near equilibrium in adverse-pressure-gradient turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 820, 667-692	3.7	63
202	Localized edge states in plane Couette flow. <i>Physics of Fluids</i> , <b>2009</b> , 21, 111701	4.4	62
201	Turbulent-laminar coexistence in wall flows with Coriolis, buoyancy or Lorentz forces. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 704, 137-172	3.7	58
200	Direct numerical simulation of the flow around a wing section at moderate Reynolds number. <i>International Journal of Heat and Fluid Flow</i> , <b>2016</b> , 61, 117-128	2.4	57
199	Effect of uniform blowing/suction in a turbulent boundary layer at moderate Reynolds number. <i>International Journal of Heat and Fluid Flow</i> , <b>2015</b> , 55, 132-142	2.4	54
198	Convergence of numerical simulations of turbulent wall-bounded flows and mean cross-flow structure of rectangular ducts. <i>Meccanica</i> , <b>2016</b> , 51, 3025-3042	2.1	53
197	Evolution of turbulence characteristics from straight to curved pipes. <i>International Journal of Heat and Fluid Flow</i> , <b>2013</b> , 41, 16-26	2.4	53
196	Direct numerical simulation of separated flow in a three-dimensional diffuser. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 650, 307-318	3.7	52
195	Turbulent boundary layers around wing sections up to $Re_c=1,000,000$ . <i>International Journal of Heat and Fluid Flow</i> , <b>2018</b> , 72, 86-99	2.4	50
194	Hairpin vortices in turbulent boundary layers. <i>Physics of Fluids</i> , <b>2015</b> , 27, 025108	4.4	47
193	On the near-wall vortical structures at moderate Reynolds numbers. <i>European Journal of Mechanics, B/Fluids</i> , <b>2014</b> , 48, 75-93	2.4	45
192	DNS of a spatially developing turbulent boundary layer with passive scalar transport. <i>International Journal of Heat and Fluid Flow</i> , <b>2009</b> , 30, 916-929	2.4	45
191	On determining characteristic length scales in pressure-gradient turbulent boundary layers. <i>Physics of Fluids</i> , <b>2016</b> , 28, 055101	4.4	45
190	Direct numerical simulation of the flow around a wall-mounted square cylinder under various inflow conditions. <i>Journal of Turbulence</i> , <b>2015</b> , 16, 555-587	2.1	44

189	Self-sustained localized structures in a boundary-layer flow. <i>Physical Review Letters</i> , <b>2012</b> , 108, 044501	7.4	43
188	Secondary flow in turbulent ducts with increasing aspect ratio. <i>Physical Review Fluids</i> , <b>2018</b> , 3,	2.8	43
187	A method to estimate turbulence intensity and transverse Taylor microscale in turbulent flows from spatially averaged hot-wire data. <i>Experiments in Fluids</i> , <b>2011</b> , 51, 693-700	2.5	42
186	High-pass filtered eddy-viscosity models for large-eddy simulations of transitional and turbulent flow. <i>Physics of Fluids</i> , <b>2005</b> , 17, 065103	4.4	41
185	Characterization of the secondary flow in hexagonal ducts. <i>Physics of Fluids</i> , <b>2016</b> , 28, 125101	4.4	41
184	Localized edge states in the asymptotic suction boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 717,	3.7	40
183	Bifurcation and stability analysis of a jet in cross-flow: onset of global instability at a low velocity ratio. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 696, 94-121	3.7	38
182	A low-dissipative, scale-selective discretization scheme for the Navier-Stokes equations. <i>Computers and Fluids</i> , <b>2012</b> , 70, 195-205	2.8	38
181	Comparison of experiments and simulations for zero pressure gradient turbulent boundary layers at moderate Reynolds numbers. <i>Experiments in Fluids</i> , <b>2013</b> , 54, 1	2.5	37
180	The viscous sublayer revisited—Exploiting self-similarity to determine the wall position and friction velocity. <i>Experiments in Fluids</i> , <b>2011</b> , 51, 271-280	2.5	34
179	On the identification of well-behaved turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 822, 109-138	3.7	33
178	Pressure-Gradient Turbulent Boundary Layers Developing Around a Wing Section. <i>Flow, Turbulence and Combustion</i> , <b>2017</b> , 99, 613-641	2.5	32
177	A numerical study of the unstratified and stratified Ekman layer. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 755, 672-704	3.7	31
176	Adverse-Pressure-Gradient Effects on Turbulent Boundary Layers: Statistics and Flow-Field Organization. <i>Flow, Turbulence and Combustion</i> , <b>2017</b> , 99, 589-612	2.5	31
175	Assessment of uncertainties in hot-wire anemometry and oil-film interferometry measurements for wall-bounded turbulent flows. <i>European Journal of Mechanics, B/Fluids</i> , <b>2018</b> , 72, 57-73	2.4	30
174	A comparison of opposition control in turbulent boundary layer and turbulent channel flow. <i>Physics of Fluids</i> , <b>2015</b> , 27, 075101	4.4	29
173	DNS and LES of estimation and control of transition in boundary layers subject to free-stream turbulence. <i>International Journal of Heat and Fluid Flow</i> , <b>2008</b> , 29, 841-855	2.4	29
172	Enhanced secondary motion of the turbulent flow through a porous square duct. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 784, 681-693	3.7	28

171	Self-sustained global oscillations in a jet in crossflow. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2011</b> , 25, 129-146	2.3	28
170	Self-similar transport of inertial particles in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 706, 584-596	3.7	27
169	On minimum aspect ratio for duct flow facilities and the role of side walls in generating secondary flows. <i>Journal of Turbulence</i> , <b>2015</b> , 16, 588-606	2.1	26
168	Global effect of local skin friction drag reduction in spatially developing turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 805, 303-321	3.7	26
167	Characterisation of backflow events over a wing section. <i>Journal of Turbulence</i> , <b>2017</b> , 18, 170-185	2.1	25
166	Revisiting History Effects in Adverse-Pressure-Gradient Turbulent Boundary Layers. <i>Flow, Turbulence and Combustion</i> , <b>2017</b> , 99, 565-587	2.5	25
165	Quantification of amplitude modulation in wall-bounded turbulence. <i>Fluid Dynamics Research</i> , <b>2019</b> , 51, 011408	1.2	25
164	Experiments and Computations of Localized Pressure Gradients with Different History Effects. <i>AIAA Journal</i> , <b>2014</b> , 52, 368-384	2.1	24
163	A windowing method for periodic inflow/outflow boundary treatment of non-periodic flows. <i>Journal of Computational Physics</i> , <b>2005</b> , 206, 505-535	4.1	24
162	Direct numerical simulation of flow over dissimilar, randomly distributed roughness elements: A systematic study on the effect of surface morphology on turbulence. <i>Physical Review Fluids</i> , <b>2018</b> , 3,	2.8	24
161	Particle transport in turbulent curved pipe flow. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 793, 248-279	3.7	24
160	Influence of corner geometry on the secondary flow in turbulent square ducts. <i>International Journal of Heat and Fluid Flow</i> , <b>2017</b> , 67, 69-78	2.4	23
159	Large-eddy simulation of spatial transition in plane channel flow. <i>Journal of Turbulence</i> , <b>2006</b> , 7, N33	2.1	23
158	On the Strong Scaling of the Spectral Element Solver Nek5000 on Petascale Systems <b>2016</b> ,		23
157	The three-dimensional structure of swirl-switching in bent pipe flow. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 835, 86-101	3.7	23
156	Global linear and nonlinear stability of viscous confined plane wakes with co-flow. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 675, 397-434	3.7	22
155	Stochastic and deterministic motion of a laminar-turbulent front in a spanwisely extended Couette flow. <i>Physical Review E</i> , <b>2011</b> , 84, 066315	2.4	22
154	Unsteady aerodynamic effects in small-amplitude pitch oscillations of an airfoil. <i>International Journal of Heat and Fluid Flow</i> , <b>2018</b> , 71, 378-391	2.4	21

153	Large Scale Accumulation Patterns of Inertial Particles in Wall-Bounded Turbulent Flow. <i>Flow, Turbulence and Combustion</i> , <b>2011</b> , 86, 519-532	2.5	21
152	Bypass transition and spot nucleation in boundary layers. <i>Physical Review Fluids</i> , <b>2016</b> , 1,	2.8	21
151	Convolutional-network models to predict wall-bounded turbulence from wall quantities. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 928,	3.7	21
150	Aspect ratio effect on particle transport in turbulent duct flows. <i>Physics of Fluids</i> , <b>2016</b> , 28, 115103	4.4	21
149	Modal instability of the flow in a toroidal pipe. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 792, 894-909	3.7	21
148	Stabilization of the Spectral Element Method in Convection Dominated Flows by Recovery of Skew-Symmetry. <i>Journal of Scientific Computing</i> , <b>2013</b> , 57, 254-277	2.3	20
147	Sources and fluxes of scale energy in the overlap layer of wall turbulence. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 771, 407-423	3.7	19
146	Simulations of turbulent asymptotic suction boundary layers. <i>Journal of Turbulence</i> , <b>2016</b> , 17, 157-180	2.1	19
145	Effects of modelling, resolution and anisotropy of subgrid-scales on large eddy simulations of channel flow. <i>Journal of Turbulence</i> , <b>2011</b> , 12, N10	2.1	19
144	Numerical study of the stabilisation of boundary-layer disturbances by finite amplitude streaks. <i>International Journal of Flow Control</i> , <b>2010</b> , 2, 259-288		19
143	Direct numerical simulation of a turbulent 90° bend pipe flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2018</b> , 73, 199-208	2.4	19
142	Aerodynamic Effects of Uniform Blowing and Suction on a NACA4412 Airfoil. <i>Flow, Turbulence and Combustion</i> , <b>2020</b> , 105, 735-759	2.5	18
141	Role of data uncertainties in identifying the logarithmic region of turbulent boundary layers. <i>Experiments in Fluids</i> , <b>2014</b> , 55, 1	2.5	18
140	Edge states as mediators of bypass transition in boundary-layer flows. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 801,	3.7	18
139	Global linear instability of the rotating-disk flow investigated through simulations. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 765, 612-631	3.7	17
138	Linear disturbances in the rotating-disk flow: A comparison between results from simulations, experiments and theory. <i>European Journal of Mechanics, B/Fluids</i> , <b>2016</b> , 55, 170-181	2.4	17
137	Pressure fluctuation in high-Reynolds-number turbulent boundary layer: results from experiments and DNS. <i>Journal of Turbulence</i> , <b>2012</b> , 13, N50	2.1	17
136	Global stability and optimal perturbation for a jet in cross-flow. <i>European Journal of Mechanics, B/Fluids</i> , <b>2015</b> , 49, 438-447	2.4	16

135	Coherent structures and dominant frequencies in a turbulent three-dimensional diffuser. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 699, 320-351	3.7	16
134	Transfer functions for flow predictions in wall-bounded turbulence. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 864, 708-745	3.7	15
133	Simulations of Turbulent Flow in a Plane Asymmetric Diffuser. <i>Flow, Turbulence and Combustion</i> , <b>2007</b> , 79, 275-306	2.5	15
132	Reynolds number dependence of large-scale friction control in turbulent channel flow. <i>Physical Review Fluids</i> , <b>2016</b> , 1,	2.8	15
131	Effect of adverse pressure gradients on turbulent wing boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 883,	3.7	15
130	Spectral proper orthogonal decomposition and resolvent analysis of near-wall coherent structures in turbulent pipe flows. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 900,	3.7	15
129	On the global nonlinear instability of the rotating-disk flow over a finite domain. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 803, 332-355	3.7	15
128	On Large-Scale Friction Control in Turbulent Wall Flow in Low Reynolds Number Channels. <i>Flow, Turbulence and Combustion</i> , <b>2016</b> , 97, 811-827	2.5	15
127	Characterisation of the steady, laminar incompressible flow in toroidal pipes covering the entire curvature range. <i>International Journal of Heat and Fluid Flow</i> , <b>2017</b> , 66, 95-107	2.4	14
126	Turbulence in the rotating-disk boundary layer investigated through direct numerical simulations. <i>European Journal of Mechanics, B/Fluids</i> , <b>2018</b> , 70, 6-18	2.4	14
125	Correcting hot-wire spatial resolution effects in third- and fourth-order velocity moments in wall-bounded turbulence. <i>Experiments in Fluids</i> , <b>2013</b> , 54, 1	2.5	14
124	Physics-informed neural networks for solving Reynolds-averaged Navier-Stokes equations. <i>Physics of Fluids</i> ,	4.4	14
123	Prediction of wall-bounded turbulence from wall quantities using convolutional neural networks. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1522, 012022	0.3	13
122	Transition to turbulence in the rotating-disk boundary-layer flow with stationary vortices. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 836, 43-71	3.7	13
121	Complexity of localised coherent structures in a boundary-layer flow. <i>European Physical Journal E</i> , <b>2014</b> , 37, 32	1.5	13
120	Turbulence collapse in a suction boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 795, 356-379	3.7	13
119	Recurrent neural networks and Koopman-based frameworks for temporal predictions in a low-order model of turbulence. <i>International Journal of Heat and Fluid Flow</i> , <b>2021</b> , 90, 108816	2.4	13
118	The vanishing of strong turbulent fronts in bent pipes. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 866, 487-502	3.7	12

117	Secondary flow in spanwise-periodic in-phase sinusoidal channels. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 851, 288-316	3.7	12
116	Turbulent asymptotic suction boundary layers studied by simulation. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 318, 022020	0.3	11
115	Swirl-switching phenomenon in turbulent flow through toroidal pipes. <i>International Journal of Heat and Fluid Flow</i> , <b>2016</b> , 61, 108-116	2.4	11
114	Evidence of sublamina drag naturally occurring in a curved pipe. <i>Physics of Fluids</i> , <b>2015</b> , 27, 035105	4.4	10
113	Particle Velocity and Acceleration in Turbulent Bent Pipe Flows. <i>Flow, Turbulence and Combustion</i> , <b>2015</b> , 95, 539-559	2.5	10
112	Simulation of a Large-Eddy-Break-up Device (LEBU) in a Moderate Reynolds Number Turbulent Boundary Layer. <i>Flow, Turbulence and Combustion</i> , <b>2017</b> , 98, 445-460	2.5	10
111	Characterization of turbulent coherent structures in square duct flow. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1001, 012008	0.3	9
110	Universality and scaling phenomenology of small-scale turbulence in wall-bounded flows. <i>Physics of Fluids</i> , <b>2014</b> , 26, 035107	4.4	9
109	Recurrent bursts via linear processes in turbulent environments. <i>Physical Review Letters</i> , <b>2014</b> , 112, 144502	4.4	9
108	Turbulent Duct Flow Controlled with Spanwise Wall Oscillations. <i>Flow, Turbulence and Combustion</i> , <b>2017</b> , 99, 787-806	2.5	9
107	Stability and sensitivity of a cross-flow-dominated Falkner-Skan-Cooke boundary layer with discrete surface roughness. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 826, 830-850	3.7	9
106	Secondary instability and tertiary states in rotating plane Couette flow. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 761, 27-61	3.7	9
105	Stability Tools for the Spectral-Element Code Nek5000: Application to Jet-in-Crossflow. <i>Lecture Notes in Computational Science and Engineering</i> , <b>2014</b> , 349-359	0.3	9
104	Turbulent rectangular ducts with minimum secondary flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2018</b> , 72, 317-328	2.4	9
103	Investigation of the Global Instability of the Rotating-disk Boundary Layer. <i>Procedia IUTAM</i> , <b>2015</b> , 14, 321-328		8
102	Evaluation of high-pass filtered eddy-viscosity models for large-eddy simulation of turbulent flows. <i>Journal of Turbulence</i> , <b>2005</b> , 6, N5	2.1	8
101	Decomposition of the mean friction drag in adverse-pressure-gradient turbulent boundary layers. <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	8
100	Resolvent modelling of near-wall coherent structures in turbulent channel flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2020</b> , 85, 108662	2.4	8



99	Critical Point for Bifurcation Cascades and Featureless Turbulence. <i>Physical Review Letters</i> , <b>2020</b> , 124, 014501	7.4	7
98	Drag reduction in spatially developing turbulent boundary layers by spatially intermittent blowing at constant mass-flux. <i>Journal of Turbulence</i> , <b>2016</b> , 17, 913-929	2.1	7
97	Turbulent pipe flow: Statistics, Re-dependence, structures and similarities with channel and boundary layer flows. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 506, 012010	0.3	7
96	Separating adverse-pressure-gradient and Reynolds-number effects in turbulent boundary layers. <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	7
95	Experimental realisation of near-equilibrium adverse-pressure-gradient turbulent boundary layers. <i>Experimental Thermal and Fluid Science</i> , <b>2020</b> , 112, 109975	3	7
94	Edge tracking in spatially developing boundary layer flows. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 881, 164-183	1.7	7
93	High-Order Numerical Simulations of Wind Turbine Wakes. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 854, 012025	0.3	6
92	Simulation strategies for the Food and Drug Administration nozzle using Nek5000. <i>AIP Advances</i> , <b>2020</b> , 10, 025033	1.5	6
91	Statistics of Particle Accumulation in Spatially Developing Turbulent Boundary Layers. <i>Flow, Turbulence and Combustion</i> , <b>2014</b> , 92, 27-40	2.5	6
90	Influence of a Large-Eddy-Breakup-Device on the Turbulent Interface of Boundary Layers. <i>Flow, Turbulence and Combustion</i> , <b>2017</b> , 99, 823-835	2.5	6
89	Comment on Evolution of wall shear stress with Reynolds number in fully developed turbulent channel flow experiments. <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	6
88	Enabling Adaptive Mesh Refinement for Spectral-Element Simulations of Turbulence Around Wing Sections. <i>Flow, Turbulence and Combustion</i> , <b>2020</b> , 105, 415-436	2.5	6
87	Direct Numerical Simulations of Bypass Transition over Distributed Roughness. <i>AIAA Journal</i> , <b>2020</b> , 58, 702-711	2.1	6
86	Adjoint optimization of natural convection problems: differentially heated cavity. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2017</b> , 31, 537-553	2.3	5
85	The influence of thermal boundary conditions on turbulent forced convection pipe flow at two Prandtl numbers. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 144, 118601	4.9	5
84	Flow organization in the wake of a rib in a turbulent boundary layer with pressure gradient. <i>Experimental Thermal and Fluid Science</i> , <b>2019</b> , 108, 115-124	3	5
83	Global stability analysis of a 90° bend pipe flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2020</b> , 86, 108742	2.4	5
82	The influence of temperature fluctuations on hot-wire measurements in wall-bounded turbulence. <i>Experiments in Fluids</i> , <b>2014</b> , 55, 1	2.5	5

81	Spatial resolution analysis of planar PIV measurements to characterise vortices in turbulent flows. <i>Journal of Turbulence</i> , <b>2013</b> , 14, 37-66	2.1	5
80	Impact simulation and optimisation of elastic fuel tanks reinforced with exoskeleton for aerospace applications. <i>International Journal of Crashworthiness</i> , <b>2017</b> , 22, 271-293	1	5
79	Identifying Turbulent Spots in Transitional Boundary Layers. <i>Journal of Turbomachinery</i> , <b>2013</b> , 135,	1.8	5
78	Large-Eddy Simulations of Subharmonic Transition in a Supersonic Boundary Layer. <i>AIAA Journal</i> , <b>2007</b> , 45, 1019-1027	2.1	5
77	Backflow events under the effect of secondary flow of Prandtl's first kind. <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	5
76	Applying Bayesian Optimization with Gaussian Process Regression to Computational Fluid Dynamics Problems. <i>Journal of Computational Physics</i> , <b>2021</b> , 110788	4.1	5
75	Stabilization of the Spectral-Element Method in Turbulent Flow Simulations. <i>Lecture Notes in Computational Science and Engineering</i> , <b>2011</b> , 449-458	0.3	5
74	On determining characteristic length scales in pressure gradient turbulent boundary layers. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 708, 012014	0.3	5
73	Topology optimization of heat sinks in a square differentially heated cavity. <i>International Journal of Heat and Fluid Flow</i> , <b>2018</b> , 74, 36-52	2.4	5
72	Investigation of Blowing and Suction for Turbulent Flow Control on Airfoils. <i>AIAA Journal</i> , 1-15	2.1	5
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