

Helge Andersson

List of Publications by Year in descending order

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167
papers

5,020
citations

101543

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65
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167
all docs

167
docs citations

167
times ranked

2270
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational geometric methods for preferential clustering of particle suspensions. Journal of Computational Physics, 2022, 448, 110725.	3.8	3
2	Hybrid nanofluid flow past a stretching/shrinking sheet with thermal radiation and mass transpiration. Chinese Journal of Physics, 2022, 75, 152-168.	3.9	43
3	Different topologies of natural vortex dislocations in Mode A wake. Physics of Fluids, 2022, 34, .	4.0	1
4	Preferential orientation of tracer spheroids in evolving Taylorâ€œGreen vortex flow. Physics of Fluids, 2022, 34, .	4.0	2
5	Scale-dependent particle clustering in transitional wake flow. Journal of Fluid Mechanics, 2022, 940, .	3.4	3
6	The structure of turbulence in rotating rough-channel flows. International Journal of Heat and Fluid Flow, 2022, 95, 108956.	2.4	0
7	Characteristics of the wake of an inclined prolate spheroid in uniform shear flow. Physics of Fluids, 2022, 34, 053604.	4.0	0
8	Flow Around Curved Tandem Cylinders. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	1.5	1
9	Turbulent channel flow of generalized Newtonian fluids at a low Reynolds number. Journal of Fluid Mechanics, 2021, 908, .	3.4	10
10	Inertial torque on a small spheroid in a stationary uniform flow. Physical Review Fluids, 2021, 6, .	2.5	16
11	Alignment and rotation of spheroids in unsteady vortex flow. Physics of Fluids, 2021, 33, 033310.	4.0	4
12	An integral model based on slender body theory, with applications to curved rigid fibers. Physics of Fluids, 2021, 33, .	4.0	11
13	Vortex system around a step cylinder in a turbulent flow field. Physics of Fluids, 2021, 33, .	4.0	10
14	Effects of the quiescent core in turbulent channel flow on transport and clustering of inertial particles. International Journal of Multiphase Flow, 2021, 140, 103627.	3.4	5
15	Numerical investigation on the flow around an inclined prolate spheroid. Physics of Fluids, 2021, 33, .	4.0	5
16	Effects of shear-thinning rheology on near-wall turbulent structures. Journal of Fluid Mechanics, 2021, 925, .	3.4	7
17	Clusters and coherent voids in particle-laden wake flow. International Journal of Multiphase Flow, 2021, 141, 103678.	3.4	9
18	Alignment of slender fibers and thin disks induced by coherent structures of wall turbulence. International Journal of Multiphase Flow, 2021, 145, 103837.	3.4	8

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19	LES and DNS of symmetrically roughened turbulent channel flows. <i>Acta Mechanica</i> , 2021, 232, 4951-4968.	2.1	4
20	Treatment of solid objects in the Pencil Code using an immersed boundary method and overset grids. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2020, 114, 35-57.	1.2	8
21	Diameter ratio effects in the wake flow of single step cylinders. <i>Physics of Fluids</i> , 2020, 32, 093603.	4.0	8
22	Kinetic energy balance in turbulent particle-laden channel flow. <i>Physics of Fluids</i> , 2020, 32, .	4.0	8
23	Role of Transient Characteristics in Fish Trajectory Modeling. <i>Sustainability</i> , 2020, 12, 6765.	3.2	3
24	Bow shock clustering in particle-laden wetted cylinder flow. <i>International Journal of Multiphase Flow</i> , 2020, 130, 103332.	3.4	10
25	Vortex dislocation mechanisms in the near wake of a step cylinder. <i>Journal of Fluid Mechanics</i> , 2020, 891, .	3.4	15
26	Clustering of inertial spheres in evolving Taylorâ€œGreen vortex flow. <i>Physics of Fluids</i> , 2020, 32, 043306.	4.0	12
27	Mapping spheroid rotation modes in turbulent channel flow: effects of shear, turbulence and particle inertia. <i>Journal of Fluid Mechanics</i> , 2019, 876, 19-54.	3.4	22
28	Preferential orientation of tracer spheroids in turbulent channel flow. <i>Theoretical and Applied Mechanics Letters</i> , 2019, 9, 212-214.	2.8	4
29	Influence of the quiescent core on tracer spheroidal particle dynamics in turbulent channel flow. <i>Journal of Turbulence</i> , 2019, 20, 424-438.	1.4	11
30	Turbulent wake behind a concave curved cylinder. <i>Journal of Fluid Mechanics</i> , 2019, 878, 663-699.	3.4	11
31	Low-frequency oscillations in flow past an inclined prolate spheroid. <i>International Journal of Heat and Fluid Flow</i> , 2019, 78, 108421.	2.4	2
32	High-order overset grid method for detecting particle impaction on a cylinder in a cross flow. <i>International Journal of Computational Fluid Dynamics</i> , 2019, 33, 43-58.	1.2	8
33	Near-Wake of an Inclined 6:1 Spheroid at Reynolds Number 4000. <i>AIAA Journal</i> , 2019, 57, 1364-1372.	2.6	5
34	Forces and torques on a prolate spheroid: low-Reynolds-number and attack angle effects. <i>Acta Mechanica</i> , 2019, 230, 431-447.	2.1	29
35	A novel approach to rigid spheroid models in viscous flows using operator splitting methods. <i>Numerical Algorithms</i> , 2019, 81, 1423-1441.	1.9	3
36	Instabilities in the Wake of an Inclined Prolate Spheroid. <i>Computational Methods in Applied Sciences (Springer)</i> , 2019, , 311-352.	0.3	3

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55	Orientation and rotation dynamics of triaxial ellipsoidal tracers in wall turbulence. <i>Physics of Fluids</i> , 2016, 28, .	4.0	4
56	On the peculiar structure of a helical wake vortex behind an inclined prolate spheroid. <i>Journal of Fluid Mechanics</i> , 2016, 801, 1-12.	3.4	29
57	Three-dimensional instabilities in oscillatory flow past elliptic cylinders. <i>Journal of Fluid Mechanics</i> , 2016, 798, 371-397.	3.4	4
58	Why spheroids orient preferentially in near-wall turbulence. <i>Journal of Fluid Mechanics</i> , 2016, 807, 221-234.	3.4	37
59	Turbulent wake behind two intersecting flat plates. <i>International Journal of Heat and Fluid Flow</i> , 2016, 62, 482-498.	2.4	1
60	On fiber behavior in turbulent vertical channel flow. <i>Chemical Engineering Science</i> , 2016, 153, 75-86.	3.8	22
61	Gravity Effects on Fiber Dynamics in Wall Turbulence. <i>Flow, Turbulence and Combustion</i> , 2016, 97, 1095-1110.	2.6	14
62	Large-eddy simulation of cross-flow around ship sections. <i>Journal of Marine Science and Technology</i> , 2016, 21, 552-566.	2.9	7
63	Rotation of Nonspherical Particles in Turbulent Channel Flow. <i>Physical Review Letters</i> , 2015, 115, 244501.	7.8	83
64	The transitional wake behind an inclined prolate spheroid. <i>Physics of Fluids</i> , 2015, 27, .	4.0	28
65	Shape effects on dynamics of inertia-free spheroids in wall turbulence. <i>Physics of Fluids</i> , 2015, 27, .	4.0	44
66	On the Anisotropic Vorticity in Turbulent Channel Flows. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015, 137, .	1.5	21
67	Investigation of the Flow Around Two Interacting Ship-Like Sections. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015, 137, .	1.5	5
68	Analysis of vortex splitting characteristics in the wake of an inclined flat plate using Hilbertâ€™Huang transform. <i>Acta Mechanica</i> , 2015, 226, 1085-1104.	2.1	4
69	Finite-length effects on dynamical behavior of rod-like particles in wall-bounded turbulent flow. <i>International Journal of Multiphase Flow</i> , 2015, 76, 13-21.	3.4	25
70	Orientation and rotation of inertial disk particles in wall turbulence. <i>Journal of Fluid Mechanics</i> , 2015, 766, .	3.4	67
71	Turbulence statistics in a rotating ribbed channel. <i>International Journal of Heat and Fluid Flow</i> , 2015, 51, 29-41.	2.4	18
72	On rotational dynamics of inertial disks in creeping shear flow. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 157-162.	2.1	20

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73	Coherence and Reynolds stresses in the turbulent wake behind a curved circular cylinder. <i>Journal of Turbulence</i> , 2014, 15, 883-904.	1.4	7
74	Boundary layers due to shear flow over a still fluid: A direct integration approach. <i>Applied Mathematics and Computation</i> , 2014, 242, 856-862.	2.2	6
75	The laminar wake behind a 6:1 prolate spheroid at 45° incidence angle. <i>Physics of Fluids</i> , 2014, 26, .	4.0	23
76	Numerical and Experimental Study of the Flow Around Two Ship Sections Side-by-Side. , 2014, , .		2
77	Mechanisms of particle clustering in Gaussian and non-Gaussian synthetic turbulence. <i>Physical Review E</i> , 2014, 90, 043005.	2.1	2
78	Turbulent wake behind a curved circular cylinder. <i>Journal of Fluid Mechanics</i> , 2014, 742, 192-229.	3.4	40
79	Novel features of a fully developed mixing-layer between co-flowing laminar and turbulent Couette flows. <i>Physics of Fluids</i> , 2014, 26, 031703.	4.0	10
80	Slip velocity of rigid fibers in turbulent channel flow. <i>Physics of Fluids</i> , 2014, 26, .	4.0	57
81	Numerical Simulation of Turbulent Pipe Flow Through an Abrupt Axisymmetric Constriction. <i>Flow, Turbulence and Combustion</i> , 2013, 91, 1-18.	2.6	6
82	Statistical Flow Properties in the Turbulent Wake of a Tapered Flat Plate Placed Normal to the Free-stream. <i>Flow, Turbulence and Combustion</i> , 2013, 91, 805-826.	2.6	2
83	Floquet stability analysis of the wake of an inclined flat plate. <i>Physics of Fluids</i> , 2013, 25, .	4.0	13
84	Anisotropic particles in turbulence: status and outlook. <i>Acta Mechanica</i> , 2013, 224, 2219-2223.	2.1	15
85	On inertial effects of long fibers in wall turbulence: fiber orientation and fiber stresses. <i>Acta Mechanica</i> , 2013, 224, 2375-2384.	2.1	14
86	On oblique and parallel shedding behind an inclined plate. <i>Physics of Fluids</i> , 2013, 25, 054101.	4.0	9
87	Chaotic rotation of inertial spheroids in oscillating shear flow. <i>Physics of Fluids</i> , 2013, 25, .	4.0	16
88	A Voronoï analysis of preferential concentration in a vertical channel flow. <i>Physics of Fluids</i> , 2013, 25, .	4.0	39
89	Interphasial energy transfer and particle dissipation in particle-laden wall turbulence. <i>Journal of Fluid Mechanics</i> , 2013, 715, 32-59.	3.4	83
90	Vortex shedding in flow past an inclined flat plate at high incidence. <i>Physics of Fluids</i> , 2012, 24, .	4.0	36

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91	Stokes number effects on particle slip velocity in wall-bounded turbulence and implications for dispersion models. <i>Physics of Fluids</i> , 2012, 24, .	4.0	44
92	Three-dimensional wake transition behind an inclined flat plate. <i>Physics of Fluids</i> , 2012, 24, .	4.0	13
93	Experimental and Numerical Study of the Flow Around a Semi-Submerged Rectangular Cylinder. , 2012, , .		1
94	Statistics of Particle Suspensions in Turbulent Channel Flow. <i>Communications in Computational Physics</i> , 2012, 11, 1311-1322.	1.7	2
95	Torque-coupling and particle-turbulence interactions. <i>Journal of Fluid Mechanics</i> , 2012, 696, 319-329.	3.4	44
96	Flow past a normal flat plate undergoing inline oscillations. <i>Physics of Fluids</i> , 2012, 24, 093603.	4.0	5
97	Turbulence in a skewed three-dimensional wall-bounded shear flow: effect of mean vorticity on structure modification. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 69, 1299-1325.	1.6	3
98	Wakes behind a prolate spheroid in crossflow. <i>Journal of Fluid Mechanics</i> , 2012, 701, 98-136.	3.4	22
99	Numerical investigations of turbulent flow characteristics in helically finned pipe. <i>Physics of Fluids</i> , 2011, 23, 125106.	4.0	1
100	On particle spin in two-way coupled turbulent channel flow simulations. <i>Physics of Fluids</i> , 2011, 23, .	4.0	25
101	Direct numerical simulation of turbulent flow past a T-beam. <i>Journal of Turbulence</i> , 2011, 12, N21.	1.4	2
102	Numerical investigations of laminar flow characteristics in helically finned pipes. <i>Acta Mechanica</i> , 2011, 222, 321-330.	2.1	1
103	A new set-up for PIV measurements in rotating turbulent duct flows. <i>Flow Measurement and Instrumentation</i> , 2011, 22, 71-80.	2.0	28
104	End-wall effects on vortex shedding in planar shear flow over a circular cylinder. <i>Computers and Fluids</i> , 2011, 42, 102-107.	2.5	9
105	Particle image velocimetry measurements of massively separated turbulent flows with rotation. <i>Physics of Fluids</i> , 2011, 23, .	4.0	18
106	Turbulence in a three-dimensional wall-bounded shear flow. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 62, 875-905.	1.6	6
107	DNS of backward-facing step flow with fully turbulent inflow. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 64, 777-792.	1.6	23
108	DNS of swirling turbulent pipe flow. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 64, 945-972.	1.6	8

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109	Crossflow past a prolate spheroid at Reynolds number of 10000. Journal of Fluid Mechanics, 2010, 659, 365-374.	3.4	26
110	Turbulent flow over a backward-facing step. Part 1. Effects of anti-cyclonic system rotation. Journal of Fluid Mechanics, 2010, 665, 382-417.	3.4	20
111	Comment on "Unsteady flow of a second grade fluid film over an unsteady stretching sheet" [Math. Comput. Modelling 48 (2008) 518-526]. Mathematical and Computer Modelling, 2010, 52, 1706-1707.	2.0	1
112	Turbulence modulation and drag reduction by spherical particles. Physics of Fluids, 2010, 22, .	4.0	108
113	Asymmetries in an obstructed turbulent channel flow. Physics of Fluids, 2010, 22, .	4.0	10
114	Oblique and cellular vortex shedding behind a circular cylinder in a bidirectional shear flow. Physics of Fluids, 2010, 22, .	4.0	13
115	Cellular vortex shedding in the wake of a tapered plate at low Reynolds number. Physics of Fluids, 2009, 21, .	4.0	8
116	Cellular vortex shedding behind a tapered circular cylinder. Physics of Fluids, 2009, 21, .	4.0	31
117	On the stabilizing effect of the Coriolis force on the turbulent wake of a normal flat plate. Physics of Fluids, 2009, 21, 095104.	4.0	9
118	Inflow conditions for inhomogeneous turbulent flows. International Journal for Numerical Methods in Fluids, 2009, 60, 227-235.	1.6	11
119	Simulating turbulent Dean flow in Cartesian coordinates. International Journal for Numerical Methods in Fluids, 2009, 60, 263-274.	1.6	1
120	Steady viscous flow past a tapered cylinder. Acta Mechanica, 2009, 206, 53-57.	2.1	10
121	Mass transfer to blood flowing through arterial stenosis. Zeitschrift Fur Angewandte Mathematik Und Physik, 2009, 60, 299-323.	1.4	10
122	Effects of slip and heat transfer analysis of flow over an unsteady stretching surface. Heat and Mass Transfer, 2009, 45, 1447-1452.	2.1	62
123	Numerical simulation of the turbulent wake behind a normal flat plate. International Journal of Heat and Fluid Flow, 2009, 30, 1037-1043.	2.4	78
124	Fibre-induced drag reduction. Journal of Fluid Mechanics, 2008, 602, 209-218.	3.4	27
125	Dynamics of prolate ellipsoidal particles in a turbulent channel flow. Physics of Fluids, 2008, 20, .	4.0	139
126	Cellular vortex shedding in the wake of a tapered plate. Journal of Fluid Mechanics, 2008, 617, 355-379.	3.4	21

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127	The stress generated by non-Brownian fibers in turbulent channel flow simulations. <i>Physics of Fluids</i> , 2007, 19, 115107.	4.0	39
128	On the performance of the moment approximation for the numerical computation of fiber stress in turbulent channel flow. <i>Physics of Fluids</i> , 2007, 19, 035102.	4.0	47
129	Sakiadis flow with variable fluid properties revisited. <i>International Journal of Engineering Science</i> , 2007, 45, 554-561.	5.0	48
130	Axisymmetric stagnation-point flow over a lubricated surface. <i>Acta Mechanica</i> , 2007, 194, 1-10.	2.1	46
131	Roughness effects in turbulent channel flow. <i>Progress in Computational Fluid Dynamics</i> , 2006, 6, 1.	0.2	19
132	The structure of turbulence in a rod-roughened channel. <i>International Journal of Heat and Fluid Flow</i> , 2006, 27, 65-79.	2.4	37
133	Slip flow over a lubricated rotating disk. <i>International Journal of Heat and Fluid Flow</i> , 2006, 27, 329-335.	2.4	42
134	LES of open rotor-stator flow. <i>International Journal of Heat and Fluid Flow</i> , 2006, 27, 551-557.	2.4	33
135	Reduced-basis modeling of turbulent plane channel flow. <i>Computers and Fluids</i> , 2006, 35, 189-207.	2.5	11
136	Reduced basis simulations as a tool for generating turbulent inlet-data for two opposing jets. <i>International Journal for Numerical Methods in Fluids</i> , 2005, 47, 1115-1122.	1.6	2
137	Direct numerical simulation of two opposing wall jets. <i>Physics of Fluids</i> , 2005, 17, 055109.	4.0	15
138	An experimental and numerical study of channel flow with rough walls. <i>Journal of Fluid Mechanics</i> , 2005, 530, 327-352.	3.4	171
139	Slip-Flow over Lubricated Surfaces. <i>Flow, Turbulence and Combustion</i> , 2004, 73, 77-93.	2.6	6
140	The generic skin-friction pattern underneath coherent near-wall structures. <i>Fluid Dynamics Research</i> , 2004, 34, 167-174.	1.3	5
141	On the drag reduction mechanism in a lubricated turbulent channel flow. <i>International Journal of Heat and Fluid Flow</i> , 2004, 25, 618-624.	2.4	5
142	Large eddy simulations of the turbulent flow between a rotating and a stationary disk. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2004, 55, 268-281.	1.4	17
143	Generation of inflow data for inhomogeneous turbulence. <i>Theoretical and Computational Fluid Dynamics</i> , 2004, 18, 371-389.	2.2	40
144	DNS of turbulent flow in a rod-roughened channel. <i>International Journal of Heat and Fluid Flow</i> , 2004, 25, 373-383.	2.4	110

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145	On the drag reduction mechanism in a lubricated turbulent channel flow. <i>International Journal of Heat and Fluid Flow</i> , 2004, 25, 618-618.	2.4	0
146	Turbulence statistics in an open rotor–stator configuration. <i>Physics of Fluids</i> , 2002, 14, 1137-1145.	4.0	5
147	Direct-mode interactions in the wake behind a stepped cylinder. <i>Physics of Fluids</i> , 2002, 14, 1548-1551.	4.0	17
148	Slip flow past a stretching surface. <i>Acta Mechanica</i> , 2002, 158, 121-125.	2.1	362
149	Flow of a power-law fluid over a rotating disk revisited. <i>Fluid Dynamics Research</i> , 2001, 28, 75-88.	1.3	86
150	Turbulent flow between a rotating and a stationary disk. <i>Journal of Fluid Mechanics</i> , 2001, 426, 297-326.	3.4	48
151	Heat transfer in a liquid film on an unsteady stretching surface. <i>International Journal of Heat and Mass Transfer</i> , 2000, 43, 69-74.	4.8	344
152	Effects of surface irregularities on flow resistance in differently shaped arterial stenoses. <i>Journal of Biomechanics</i> , 2000, 33, 1257-1262.	2.1	74
153	Slip-flow boundary conditions for non-Newtonian lubrication layers. <i>Fluid Dynamics Research</i> , 1999, 24, 211-217.	1.3	10
154	Flow of a heated ferrofluid over a stretching sheet in the presence of a magnetic dipole. <i>Acta Mechanica</i> , 1998, 128, 39-47.	2.1	166
155	On the stability of MHD flow of a viscoelastic fluid past a stretching sheet. <i>Acta Mechanica</i> , 1998, 130, 143-146.	2.1	7
156	Turbulent plane Couette flow subject to strong system rotation. <i>Journal of Fluid Mechanics</i> , 1997, 347, 289-314.	3.4	73
157	Two-layered model of blood flow through stenosed arteries. <i>Acta Mechanica</i> , 1996, 117, 221-228.	2.1	41
158	An investigation of turbulent plane Couette flow at low Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 1995, 286, 291-325.	3.4	174
159	Direct simulations of low-Reynolds-number turbulent flow in a rotating channel. <i>Journal of Fluid Mechanics</i> , 1993, 256, 163-197.	3.4	360
160	COMPUTATION OF THE INLET WALL JET IN A RECTANGULAR ENCLOSURE. <i>International Journal of Computational Fluid Dynamics</i> , 1993, 1, 217-232.	1.2	3
161	START-UP FLOW IN A PIPE FOLLOWING THE SUDDEN IMPOSITION OF A CONSTANT FLOW RATE. <i>Chemical Engineering Communications</i> , 1992, 112, 121-133.	2.6	10
162	Statistics of numerically generated turbulence. <i>Acta Applicandae Mathematicae</i> , 1992, 26, 293-314.	1.0	10

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163	MHD flow of a viscoelastic fluid past a stretching surface. <i>Acta Mechanica</i> , 1992, 95, 227-230.	2.1	353
164	Spin-up in a semicircular cylinder. <i>International Journal for Numerical Methods in Fluids</i> , 1992, 15, 503-524.	1.6	8
165	Effect of Entrance Region on Laminar Startup Flow in Pipes. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1988, 55, 482-486.	2.2	4
166	Discussion: "On Laminar Thin-Film Flow Along a Vertical Wall" (Roy, T. R., 1984, <i>ASME J. Appl. Mech.</i> , 51, 1) $T_j \text{ ET} \text{ O}_0 \text{ 0 0 rg BT / Overl}$	2.2	1
167			1