

Arne V Johansson

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,159
citations

257429

24
h-index

197805

49
g-index

50
all docs

50
docs citations

50
times ranked

1955
citing authors

#	ARTICLE	IF	CITATIONS
1	An explicit algebraic Reynolds stress model for incompressible and compressible turbulent flows. <i>Journal of Fluid Mechanics</i> , 2000, 403, 89-132.	3.4	627
2	Direct Numerical Simulation of Turbulent Pipe Flow at Moderately High Reynolds Numbers. <i>Flow, Turbulence and Combustion</i> , 2013, 91, 475-495.	2.6	234
3	On the structure of turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 1982, 122, 295.	3.4	233
4	A mechanism for bypass transition from localized disturbances in wall-bounded shear flows. <i>Journal of Fluid Mechanics</i> , 1993, 250, 169-207.	3.4	188
5	Very large structures in plane turbulent Couette flow. <i>Journal of Fluid Mechanics</i> , 1996, 320, 259.	3.4	179
6	Direct simulation of turbulent spots in plane Couette flow. <i>Journal of Fluid Mechanics</i> , 1991, 229, 499.	3.4	176
7	Turbulence reduction by screens. <i>Journal of Fluid Mechanics</i> , 1988, 197, 139-155.	3.4	159
8	Evolution and dynamics of shear-layer structures in near-wall turbulence. <i>Journal of Fluid Mechanics</i> , 1991, 224, 579-599.	3.4	141
9	Effects of imperfect spatial resolution on measurements of wall-bounded turbulent shear flows. <i>Journal of Fluid Mechanics</i> , 1983, 137, 409-421.	3.4	133
10	Warm summers during the Younger Dryas cold reversal. <i>Nature Communications</i> , 2018, 9, 1634.	12.8	103
11	On the generation of high-amplitude wall-pressure peaks in turbulent boundary layers and spots. <i>Journal of Fluid Mechanics</i> , 1987, 175, 119.	3.4	97
12	On the detection of turbulence-generating events. <i>Journal of Fluid Mechanics</i> , 1984, 139, 325-345.	3.4	80
13	An algebraic model for nonisotropic turbulent dissipation rate in Reynolds stress closures. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990, 2, 1859-1866.	1.6	67
14	Derivation and investigation of a new explicit algebraic model for the passive scalar flux. <i>Physics of Fluids</i> , 2000, 12, 688-702.	4.0	65
15	Modelling of rapid pressure-strain in Reynolds-stress closures. <i>Journal of Fluid Mechanics</i> , 1994, 269, 143-168.	3.4	62
16	Development and calibration of algebraic nonlinear models for terms in the Reynolds stress transport equations. <i>Physics of Fluids</i> , 2000, 12, 1554-1572.	4.0	52
17	Direct numerical simulation of a plane turbulent wall-jet including scalar mixing. <i>Physics of Fluids</i> , 2007, 19, 065102.	4.0	51
18	Explicit algebraic subgrid stress models with application to rotating channel flow. <i>Journal of Fluid Mechanics</i> , 2009, 639, 403-432.	3.4	43

#	ARTICLE	IF	CITATIONS
19	Simulation of finite-size fibers in turbulent channel flows. <i>Physical Review E</i> , 2014, 89, 013006.	2.1	43
20	Title is missing!. <i>Flow, Turbulence and Combustion</i> , 2000, 63, 223-245.	2.6	42
21	Shear-free turbulence near a wall. <i>Journal of Fluid Mechanics</i> , 1997, 338, 363-385.	3.4	36
22	Evaluation of scaling laws derived from Lie group symmetry methods in zero-pressure-gradient turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2004, 502, 127-152.	3.4	35
23	High Order Accurate Solution of Flow Past a Circular Cylinder. <i>Journal of Scientific Computing</i> , 2006, 27, 431-441.	2.3	26
24	An explicit algebraic Reynolds-stress and scalar-flux model for stably stratified flows. <i>Journal of Fluid Mechanics</i> , 2013, 723, 91-125.	3.4	26
25	Measurement and modelling of homogeneous axisymmetric turbulence. <i>Journal of Fluid Mechanics</i> , 1998, 374, 59-90.	3.4	22
26	Evaluation of a new wind tunnel with expanding corners. <i>Experiments in Fluids</i> , 2004, 36, 197-203.	2.4	21
27	An explicit algebraic model for the subgrid-scale passive scalar flux. <i>Journal of Fluid Mechanics</i> , 2013, 721, 541-577.	3.4	20
28	Direct drag measurements for a flat plate with passive boundary layer manipulators. <i>Physics of Fluids</i> , 1986, 29, 696.	1.4	19
29	Design of guide vanes for minimizing the pressure loss in sharp bends. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 1934-1940.	1.6	19
30	Large eddy simulation of channel flow with and without periodic constrictions using the explicit algebraic subgrid-scale model. <i>Journal of Turbulence</i> , 2014, 15, 752-775.	1.4	16
31	Direct numerical simulation of an isothermal reacting turbulent wall-jet. <i>Physics of Fluids</i> , 2011, 23, .	4.0	15
32	Study of Transitions in the Atmospheric Boundary Layer Using Explicit Algebraic Turbulence Models. <i>Boundary-Layer Meteorology</i> , 2016, 161, 19-47.	2.3	14
33	A novel method to determine the natural course of unruptured brain arteriovenous malformations without the need for follow-up information. <i>Journal of Neurosurgery</i> , 2018, 129, 10-16.	1.6	13
34	Improving LES with OpenFOAM by minimising numerical dissipation and use of explicit algebraic SGS stress model. <i>Journal of Turbulence</i> , 2019, 20, 697-722.	1.4	12
35	A stochastic extension of the explicit algebraic subgrid-scale models. <i>Physics of Fluids</i> , 2014, 26, 055113.	4.0	10
36	Design of the centrifugal fan of a belt-driven starter generator with reduced flow noise. <i>International Journal of Heat and Fluid Flow</i> , 2019, 76, 72-84.	2.4	10

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37	Taking large-eddy simulation of wall-bounded flows to higher Reynolds numbers by use of anisotropy-resolving subgrid models. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	10
38	LES computations and comparison with Kolmogorov theory for two-point pressure-velocity correlations and structure functions for globally anisotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2000, 403, 23-36.	3.4	8
39	Heat release effects on mixing scales of non-premixed turbulent wall-jets: A direct numerical simulation study. <i>International Journal of Heat and Fluid Flow</i> , 2013, 40, 65-80.	2.4	8
40	DNS Analysis of Wall Heat Transfer and Combustion Regimes in a Turbulent Non-premixed Wall-jet Flame. <i>Flow, Turbulence and Combustion</i> , 2016, 97, 951-969.	2.6	8
41	Consistent Boundary-Condition Treatment for Computation of the Atmospheric Boundary Layer Using the Explicit Algebraic Reynolds-Stress Model. <i>Boundary-Layer Meteorology</i> , 2019, 171, 53-77.	2.3	7
42	A realizable explicit algebraic Reynolds stress model for compressible turbulent flow with significant mean dilatation. <i>Physics of Fluids</i> , 2013, 25, 105112.	4.0	6
43	Modelling of rapid pressure-strain in Reynolds stress closures ? Difficulties associated with rotational mean flows. <i>Flow, Turbulence and Combustion</i> , 1994, 53, 119-137.	0.2	5
44	Sixth International Symposium on Turbulence and Shear Flow Phenomena. <i>Journal of Turbulence</i> , 2011, 12, N14.	1.4	5
45	Capturing turbulent density flux effects in variable density flow by an explicit algebraic model. <i>Physics of Fluids</i> , 2015, 27, 045108.	4.0	3
46	Algebraic Reynolds stress modeling of turbulence subject to rapid homogeneous and non-homogeneous compression or expansion. <i>Physics of Fluids</i> , 2016, 28, .	4.0	3
47	Improving separated-flow predictions using an anisotropy-capturing subgrid-scale model. <i>International Journal of Heat and Fluid Flow</i> , 2017, 65, 246-251.	2.4	3
48	Modelling of Stably Stratified Atmospheric Boundary Layers with Varying Stratifications. <i>Boundary-Layer Meteorology</i> , 2020, 176, 229-249.	2.3	3
49	Explicit Algebraic Reynolds-stress Modelling of a Convective Atmospheric Boundary Layer Including Counter-Gradient Fluxes. <i>Boundary-Layer Meteorology</i> , 2021, 178, 487-497.	2.3	1
50	Investigations of shear free turbulent diffusion in a rotating frame. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2004, 4, 458-459.	0.2	0