

Arne V Johansson

List of Publications by Citations

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|-------------------|-------------------------|----------------|-----------------|
| 50 papers | 2,616 citations | 23 h-index | 50 g-index |
| 50 ext. papers | 2,889 ext. citations | 3.6 avg, IF | 4.85 L-index |

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 50 | An explicit algebraic Reynolds stress model for incompressible and compressible turbulent flows. <i>Journal of Fluid Mechanics</i> , 2000 , 403, 89-132 | 3.7 | 524 |
| 49 | On the structure of turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 1982 , 122, 295 | 3.7 | 208 |
| 48 | Direct Numerical Simulation of Turbulent Pipe Flow at Moderately High Reynolds Numbers. <i>Flow, Turbulence and Combustion</i> , 2013 , 91, 475-495 | 2.5 | 169 |
| 47 | A mechanism for bypass transition from localized disturbances in wall-bounded shear flows. <i>Journal of Fluid Mechanics</i> , 1993 , 250, 169-207 | 3.7 | 167 |
| 46 | Direct simulation of turbulent spots in plane Couette flow. <i>Journal of Fluid Mechanics</i> , 1991 , 229, 499 | 3.7 | 163 |
| 45 | Very large structures in plane turbulent Couette flow. <i>Journal of Fluid Mechanics</i> , 1996 , 320, 259 | 3.7 | 151 |
| 44 | Turbulence reduction by screens. <i>Journal of Fluid Mechanics</i> , 1988 , 197, 139-155 | 3.7 | 131 |
| 43 | Effects of imperfect spatial resolution on measurements of wall-bounded turbulent shear flows. <i>Journal of Fluid Mechanics</i> , 1983 , 137, 409-421 | 3.7 | 116 |
| 42 | Evolution and dynamics of shear-layer structures in near-wall turbulence. <i>Journal of Fluid Mechanics</i> , 1991 , 224, 579-599 | 3.7 | 115 |
| 41 | On the generation of high-amplitude wall-pressure peaks in turbulent boundary layers and spots. <i>Journal of Fluid Mechanics</i> , 1987 , 175, 119 | 3.7 | 81 |
| 40 | On the detection of turbulence-generating events. <i>Journal of Fluid Mechanics</i> , 1984 , 139, 325-345 | 3.7 | 68 |
| 39 | Warm summers during the Younger Dryas cold reversal. <i>Nature Communications</i> , 2018 , 9, 1634 | 17.4 | 57 |
| 38 | An algebraic model for nonisotropic turbulent dissipation rate in Reynolds stress closures. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990 , 2, 1859-1866 | | 54 |
| 37 | Derivation and investigation of a new explicit algebraic model for the passive scalar flux. <i>Physics of Fluids</i> , 2000 , 12, 688-702 | 4.4 | 53 |
| 36 | Modelling of rapid pressure strain in Reynolds-stress closures. <i>Journal of Fluid Mechanics</i> , 1994 , 269, 143-168 | 3.7 | 52 |
| 35 | Development and calibration of algebraic nonlinear models for terms in the Reynolds stress transport equations. <i>Physics of Fluids</i> , 2000 , 12, 1554-1572 | 4.4 | 46 |
| 34 | Direct numerical simulation of a plane turbulent wall-jet including scalar mixing. <i>Physics of Fluids</i> , 2007 , 19, 065102 | 4.4 | 43 |

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| 33 | Explicit algebraic subgrid stress models with application to rotating channel flow. <i>Journal of Fluid Mechanics</i> , 2009 , 639, 403-432 | 3.7 | 40 |
| 32 | DNS and Modelling of Passive Scalar Transport in Turbulent Channel Flow with a Focus on Scalar Dissipation Rate Modelling. <i>Flow, Turbulence and Combustion</i> , 2000 , 63, 223-245 | 2.5 | 37 |
| 31 | Simulation of finite-size fibers in turbulent channel flows. <i>Physical Review E</i> , 2014 , 89, 013006 | 2.4 | 34 |
| 30 | Shear-free turbulence near a wall. <i>Journal of Fluid Mechanics</i> , 1997 , 338, 363-385 | 3.7 | 30 |
| 29 | 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 | 3.7 | 30 |
| 28 | An explicit algebraic Reynolds-stress and scalar-flux model for stably stratified flows. <i>Journal of Fluid Mechanics</i> , 2013 , 723, 91-125 | 3.7 | 23 |
| 27 | Measurement and modelling of homogeneous axisymmetric turbulence. <i>Journal of Fluid Mechanics</i> , 1998 , 374, 59-90 | 3.7 | 22 |
| 26 | High Order Accurate Solution of Flow Past a Circular Cylinder. <i>Journal of Scientific Computing</i> , 2006 , 27, 431-441 | 2.3 | 20 |
| 25 | An explicit algebraic model for the subgrid-scale passive scalar flux. <i>Journal of Fluid Mechanics</i> , 2013 , 721, 541-577 | 3.7 | 18 |
| 24 | Direct drag measurements for a flat plate with passive boundary layer manipulators. <i>Physics of Fluids</i> , 1986 , 29, 696 | | 18 |
| 23 | Evaluation of a new wind tunnel with expanding corners. <i>Experiments in Fluids</i> , 2004 , 36, 197-203 | 2.5 | 16 |
| 22 | 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 | 2.1 | 15 |
| 21 | Direct numerical simulation of an isothermal reacting turbulent wall-jet. <i>Physics of Fluids</i> , 2011 , 23, 085104 | 4.4 | 14 |
| 20 | Design of guide vanes for minimizing the pressure loss in sharp bends. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991 , 3, 1934-1940 | | 11 |
| 19 | Study of Transitions in the Atmospheric Boundary Layer Using Explicit Algebraic Turbulence Models. <i>Boundary-Layer Meteorology</i> , 2016 , 161, 19-47 | 3.4 | 9 |
| 18 | A stochastic extension of the explicit algebraic subgrid-scale models. <i>Physics of Fluids</i> , 2014 , 26, 055113 | 4.4 | 8 |
| 17 | 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 | 3.7 | 8 |
| 16 | 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 | 2.5 | 8 |

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| 15 | 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 | 7 |
| 14 | 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, | 2.8 | 7 |
| 13 | 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 | 2.1 | 7 |
| 12 | 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 | 6 |
| 11 | 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 | 3.4 | 5 |
| 10 | Sixth International Symposium on Turbulence and Shear Flow Phenomena. <i>Journal of Turbulence</i> , 2011 , 12, N14 | 2.1 | 5 |
| 9 | A realizable explicit algebraic Reynolds stress model for compressible turbulent flow with significant mean dilatation. <i>Physics of Fluids</i> , 2013 , 25, 105112 | 4.4 | 4 |
| 8 | 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 | 3.2 | 4 |
| 7 | Capturing turbulent density flux effects in variable density flow by an explicit algebraic model. <i>Physics of Fluids</i> , 2015 , 27, 045108 | 4.4 | 3 |
| 6 | 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 | | 3 |
| 5 | Algebraic Reynolds stress modeling of turbulence subject to rapid homogeneous and non-homogeneous compression or expansion. <i>Physics of Fluids</i> , 2016 , 28, 026101 | 4.4 | 3 |
| 4 | 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 | 2 |
| 3 | Modelling of Stably Stratified Atmospheric Boundary Layers with Varying Stratifications. <i>Boundary-Layer Meteorology</i> , 2020 , 176, 229-249 | 3.4 | 1 |
| 2 | Explicit Algebraic Reynolds-stress Modelling of a Convective Atmospheric Boundary Layer Including Counter-Gradient Fluxes. <i>Boundary-Layer Meteorology</i> , 2021 , 178, 487-497 | 3.4 | 0 |
| 1 | Investigations of shear free turbulent diffusion in a rotating frame. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2004 , 4, 458-459 | 0.2 | |