

# Stefan Wallin

## List of Publications by Year in descending order

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55  
papers

1,384  
citations

623188

14  
h-index

329751

37  
g-index

57  
all docs

57  
docs citations

57  
times ranked

689  
citing authors

#	ARTICLE	IF	CITATIONS
1	Explicit Algebraic Reynolds-stress Modelling of a Convective Atmospheric Boundary Layer Including Counter-Gradient Fluxes. <i>Boundary-Layer Meteorology</i> , 2021, 178, 487-497.	1.2	1
2	A CFD benchmark of active flow control for buffet prevention. <i>CEAS Aeronautical Journal</i> , 2020, 11, 837-847.	0.9	8
3	Modelling of Stably Stratified Atmospheric Boundary Layers with Varying Stratifications. <i>Boundary-Layer Meteorology</i> , 2020, 176, 229-249.	1.2	3
4	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.	1.2	7
5	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.	1.1	10
6	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.	0.5	12
7	Improving separated-flow predictions using an anisotropy-capturing subgrid-scale model. <i>International Journal of Heat and Fluid Flow</i> , 2017, 65, 246-251.	1.1	3
8	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, .	1.0	10
9	Near-wall damping in model predictions of separated flows. <i>International Journal of Computational Fluid Dynamics</i> , 2016, 30, 218-230.	0.5	7
10	Algebraic Reynolds stress modeling of turbulence subject to rapid homogeneous and non-homogeneous compression or expansion. <i>Physics of Fluids</i> , 2016, 28, .	1.6	3
11	Study of Transitions in the Atmospheric Boundary Layer Using Explicit Algebraic Turbulence Models. <i>Boundary-Layer Meteorology</i> , 2016, 161, 19-47.	1.2	14
12	Efficient treatment of the nonlinear features in algebraic Reynolds-stress and heat-flux models for stratified and convective flows. <i>International Journal of Heat and Fluid Flow</i> , 2015, 53, 15-28.	1.1	11
13	Capturing turbulent density flux effects in variable density flow by an explicit algebraic model. <i>Physics of Fluids</i> , 2015, 27, 045108.	1.6	3
14	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.	0.5	16
15	Simulating jet exhaust plumes for optical propagation calculations. , 2014, , .		1
16	An explicit algebraic Reynolds-stress and scalar-flux model for stably stratified flows. <i>Journal of Fluid Mechanics</i> , 2013, 723, 91-125.	1.4	26
17	Laminarization mechanisms and extreme-amplitude states in rapidly rotating plane channel flow. <i>Journal of Fluid Mechanics</i> , 2013, 730, 193-219.	1.4	24
18	Design of Active Flow Control at a Drooped Spoiler Configuration. , 2013, , .		9

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19	Statistical Vortex-Generator-Jet Model for Turbulent Flow Separation Control. AIAA Journal, 2013, 51, 1119-1129.	1.5	9
20	Computation validation on lateral jet interactions at supersonic speeds. International Journal of Engineering Systems Modelling and Simulation, 2013, 5, 68.	0.2	4
21	Simulation of laser propagation through jet plumes using computational fluid dynamics. Proceedings of SPIE, 2013, , .	0.8	3
22	A realizable explicit algebraic Reynolds stress model for compressible turbulent flow with significant mean dilatation. Physics of Fluids, 2013, 25, 105112.	1.6	6
23	Closure modeling in bridging regions of variable-resolution (VR) turbulence computations. Journal of Turbulence, 2013, 14, 72-98.	0.5	36
24	Rethinking network management: Models, data-mining and self-learning. , 2012, , .		3
25	A novel modeling approach for vortex generator jet flow separation control. , 2012, , .		0
26	Evaluation and Parameterization of Round Vortex Generator Jet Experiments for Flow Control. AIAA Journal, 2012, 50, 2508-2524.	1.5	13
27	Vortex-Generator Models for Zero- and Adverse-Pressure-Gradient Flows. AIAA Journal, 2012, 50, 855-866.	1.5	13
28	The semantics of alarm definitions: enabling systematic reasoning about alarms. International Journal of Network Management, 2012, 22, 181-198.	1.4	2
29	Exploring $k$ and $\tilde{\mu}$ with RANS Equation Model Using Elliptic Relaxation Function. Flow, Turbulence and Combustion, 2012, 89, 121-148.	1.4	28
30	Evaluation of a Vortex Generator Model in Adverse Pressure Gradient Boundary Layers. AIAA Journal, 2011, 49, 982-993.	1.5	20
31	Evaluating vortex generator jet experiments for turbulent flow separation control. Journal of Physics: Conference Series, 2011, 318, 022038.	0.3	0
32	Statistical modelling of the influence of turbulent flow separation control devices. , 2009, , .		7
33	Chasing a Definition of "Alarm". Journal of Network and Systems Management, 2009, 17, 457-481.	3.3	7
34	Explicit algebraic Reynolds stress and non-linear eddy-viscosity models. International Journal of Computational Fluid Dynamics, 2009, 23, 349-361.	0.5	25
35	Statistical analysis and prioritisation of alarms in mobile networks. International Journal of Business Intelligence and Data Mining, 2009, 4, 4.	0.2	8
36	Telecom Network and Service Management: An Operator Survey. Lecture Notes in Computer Science, 2009, , 15-26.	1.0	9

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37	Stability and laminarisation of turbulent rotating channel flow. Springer Proceedings in Physics, 2009, , 177-178.	0.1	0
38	A priori evaluations and least-squares optimizations of turbulence models for fully developed rotating turbulent channel flow. European Journal of Mechanics, B/Fluids, 2008, 27, 75-95.	1.2	3
39	Direct numerical simulations of rotating turbulent channel flow. Journal of Fluid Mechanics, 2008, 598, 177-199.	1.4	99
40	Observations on the predictions of fully developed rotating pipe flow using differential and explicit algebraic Reynolds stress models. European Journal of Mechanics, B/Fluids, 2006, 25, 95-112.	1.2	8
41	Contribution by FOI. , 2006, , 73-76.		0
42	An explicit algebraic Reynolds stress model based on a nonlinear pressure strain rate model. International Journal of Heat and Fluid Flow, 2005, 26, 732-745.	1.1	11
43	Assessment of explicit algebraic Reynolds-stress turbulence models in aerodynamic computations. Aerospace Science and Technology, 2005, 9, 573-581.	2.5	21
44	Techniques for deriving explicit algebraic Reynolds stress models based on incomplete sets of basis tensors and predictions of fully developed rotating pipe flow. Physics of Fluids, 2005, 17, 115103.	1.6	4
45	Application of Reynolds Stress Models to High-Lift Aerodynamics Applications. , 2005, , 607-616.		0
46	Extending the weak-equilibrium condition for algebraic Reynolds stress models to rotating and curved flows. Journal of Fluid Mechanics, 2004, 518, 147-155.	1.4	33
47	Scrutinizing Curvature Corrections for Algebraic Reynolds Stress Models. , 2002, , .		5
48	Modelling streamline curvature effects in explicit algebraic Reynolds stress turbulence models. International Journal of Heat and Fluid Flow, 2002, 23, 721-730.	1.1	101
49	Computational Study of the High-Lift A-Airfoil. Journal of Aircraft, 2001, 38, 769-772.	1.7	2
50	Computational study of the high-lift A-airfoil. , 2001, , .		4
51	Derivation and investigation of a new explicit algebraic model for the passive scalar flux. Physics of Fluids, 2000, 12, 688-702.	1.6	65
52	An explicit algebraic Reynolds stress model for incompressible and compressible turbulent flows. Journal of Fluid Mechanics, 2000, 403, 89-132.	1.4	627
53	Evolution of an Isolated Turbulent Trailing Vortex. AIAA Journal, 2000, 38, 657-665.	1.5	12
54	A prediction method for high speed turbulent separated flows with experimental verification. , 1998, , .		11

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55	A New Explicit Algebraic Reynolds Stress Model. Fluid Mechanics and Its Applications, 1996, , 31-34.	0.1	14