

Brian Launder

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4848080/brian-launder-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

8,304
citations

34
h-index

91
g-index

95
ext. papers

9,114
ext. citations

3.1
avg, IF

5.54
L-index

#	Paper	IF	Citations
84	Reassessment of modeling turbulence via Reynolds averaging: A review of second-moment transport strategy. <i>Physics of Fluids</i> , 2021 , 33, 091302	4.4	1
83	Eddy-Viscosity Transport Modelling: A Historical Review 2020 , 295-316		0
82	Hurricanes: An Engineering View of their Structure and Strategies for their Extinction. <i>Flow, Turbulence and Combustion</i> , 2017 , 98, 969-985	2.5	
81	Horace Lamb and how he found his way back to Manchester. <i>Comptes Rendus - Mecanique</i> , 2017 , 345, 477-487	2.1	2
80	First steps in modelling turbulence and its origins: a commentary on Reynolds (1895) 'On the dynamical theory of incompressible viscous fluids and the determination of the criterion'. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	8
79	A comparison and assessment of approaches for modelling flow over in-line tube banks. <i>International Journal of Heat and Fluid Flow</i> , 2014 , 49, 69-79	2.4	24
78	Climate engineering: exploring nuances and consequences of deliberately altering the Earth's energy budget. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372,	3	2
77	Horace Lamb & Osborne Reynolds: Remarkable Mancunians ... and their Interactions. <i>Journal of Physics: Conference Series</i> , 2014 , 530, 012001	0.3	2
76	Back to the Future? A Re-examination of the Aerodynamics of Flettner-Thom Rotors for Maritime Propulsion. <i>Flow, Turbulence and Combustion</i> , 2014 , 92, 413-427	2.5	5
75	Horace Lamb and the circumstances of his appointment at Owens College. <i>Notes and Records of the Royal Society</i> , 2013 , 67, 139-158	0.4	2
74	Marine cloud brightening. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 4217-62	3	97
73	Modelling Turbulence in Engineering and the Environment: Second-Moment Routes to Closure 2011 ,		73
72	Laminar, Transitional, and Turbulent Flows in Rotor-Stator Cavities. <i>Annual Review of Fluid Mechanics</i> , 2010 , 42, 229-248	2.2	73
71	A tribute to D.B. Spalding and his contributions in science and engineering. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 3884-3905	4.9	25
70	Preface. Geoscale engineering to avert dangerous climate change. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 3841-2	3	11
69	Some Swirling-flow Challenges for Turbulent CFD. <i>Flow, Turbulence and Combustion</i> , 2008 , 80, 419-434	2.5	21
68	Osborne Reynolds and the Publication of His Papers on Turbulent Flow. <i>Annual Review of Fluid Mechanics</i> , 2007 , 39, 19-35	2.2	44

67	Internal blade cooling: The Cinderella of computational and experimental fluid dynamics research in gas turbines. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2007 , 221, 265-290	1.6	24
66	Development and application of wall-function treatments for turbulent forced and mixed convection flows. <i>Fluid Dynamics Research</i> , 2006 , 38, 127-144	1.2	28
65	A computational study of the near-field generation and decay of wingtip vortices. <i>International Journal of Heat and Fluid Flow</i> , 2006 , 27, 684-695	2.4	38
64	Developments in the understanding and modelling of turbulence 2005 , 5-49		
63	RANS modelling of turbulent flows affected by buoyancy or stratification 2005 , 50-127		
62	Transitional turbulent flow with heat transfer in a closed rotor-stator cavity. <i>Journal of Turbulence</i> , 2004 , 5,	2.1	6
61	A NEW WALL FUNCTION STRATEGY FOR COMPLEX TURBULENT FLOWS. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2004 , 45, 301-318	1.3	73
60	Écoulement en eau peu profonde autour d'un modèle d'île conique. <i>Revue Européenne Des Elements</i> , 2003 , 12, 361-371		
59	Linear and Nonlinear Eddy Viscosity Models 2001 , 9-46		20
58	Closure Modelling Near the Two-Component Limit 2001 , 102-126		4
57	Simulation of Coherent Eddy Structure in Buoyancy-Driven Flows with Single-Point Turbulence Closure Models 2001 , 659-684		4
56	Developments in turbulence research: a review based on the 1999 Programme of the Isaac Newton Institute, Cambridge. <i>Journal of Fluid Mechanics</i> , 2001 , 436, 353-391	3.7	31
55	On the spreading mechanism of the three-dimensional turbulent wall jet. <i>Journal of Fluid Mechanics</i> , 2001 , 435, 305-326	3.7	75
54	LDA Study of the Flow Development Through an Orthogonally Rotating U-Bend of Strong Curvature and Rib-Roughened Walls. <i>Journal of Turbomachinery</i> , 1998 , 120, 386-391	1.8	39
53	LDA Study of the Flow Development Through an Orthogonally Rotating U-Bend of Strong Curvature and Rib Roughened Walls 1996 ,		5
52	LDA Investigation of the Flow Development Through Rotating U-Ducts. <i>Journal of Turbomachinery</i> , 1996 , 118, 590-596	1.8	69
51	Developing Buoyancy-Modified Turbulent Flow in Ducts Rotating in Orthogonal Mode. <i>Journal of Turbomachinery</i> , 1995 , 117, 474-484	1.8	46
50	Spirally fluted tubing: prediction and measurement. <i>Houille Blanche</i> , 1995 , 81, 86-92	0.3	

49	On the elimination of wall-topography parameters from second-moment closure. <i>Physics of Fluids</i> , 1994 , 6, 999-1006	4.4	81
48	LDA Investigation of the Flow Development Through Rotating U-DUCTS 1994 ,		6
47	On the prediction of riblet performance with engineering turbulence models. <i>Flow, Turbulence and Combustion</i> , 1993 , 50, 283-298		13
46	Current capabilities for modelling turbulence in industrial flows. <i>Flow, Turbulence and Combustion</i> , 1991 , 48, 247-269		40
45	Turbulent Boundary-Layer Development Around a Square-Sectioned U-Bend: Measurements and Computation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1990 , 112, 409-415	2.1	26
44	Heat Transfer, Temperature, and Velocity Measurements Downstream of an Abrupt Expansion in a Circular Tube at a Uniform Wall Temperature. <i>Journal of Heat Transfer</i> , 1989 , 111, 870-876	1.8	23
43	Numerical Computation of Turbulent Flow in a Square-Sectioned 180 Deg Bend. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1989 , 111, 59-68	2.1	64
42	A numerical study of riblet effects on laminar flow through a plane channel. <i>Flow, Turbulence and Combustion</i> , 1989 , 46, 271-279		13
41	The Prediction of Force Field Effects on Turbulent Shear Flows via Second-Moment Closure 1989 , 338-358		10
40	On the Computation of Convective Heat Transfer in Complex Turbulent Flows. <i>Journal of Heat Transfer</i> , 1988 , 110, 1112-1128	1.8	223
39	A Comparison of Algebraic and Differential Second-Moment Closures for Axisymmetric Turbulent Shear Flows With and Without Swirl. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1988 , 110, 216-221	2.1	55
38	TURBULENT MOMENTUM AND HEAT TRANSPORT IN SQUARE-SECTIONED DUCTS ROTATING IN ORTHOGONAL MODE. <i>Numerical Heat Transfer</i> , 1987 , 12, 475-491		10
37	A second-moment closure study of rotating channel flow. <i>Journal of Fluid Mechanics</i> , 1987 , 183, 63-75	3.7	136
36	Developing Turbulent Flow in a U-Bend of Circular Cross-Section: Measurement and Computation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1986 , 108, 214-221	2.1	63
35	Local Heat Transfer Downstream of an Abrupt Expansion in a Circular Channel With Constant Wall Heat Flux. <i>Journal of Heat Transfer</i> , 1984 , 106, 789-796	1.8	82
34	PSL An Economical Approach to the Numerical Analysis of Near-Wall, Elliptic Flow. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1984 , 106, 241-242	2.1	23
33	DISCUSSION OF ON THE CALCULATION OF TURBULENT HEAT TRANSPORT DOWNSTREAM FROM AN ABRUPT PIPE EXPANSION Numerical Heat Transfer, 1982 , 5, 493-496		26
32	Double-Row Discrete-Hole Cooling: an Experimental and Numerical Study. <i>Journal of Engineering for Power</i> , 1980 , 102, 498-503		10

31	Sensitizing the Dissipation Equation to Irrotational Strains. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1980 , 102, 34-40	2.1	135
30	ON THE CALCULATION OF TURBULENT HEAT TRANSPORT DOWNSTREAM FROM AN ABRUPT PIPE EXPANSION. <i>Numerical Heat Transfer</i> , 1980 , 3, 189-207		179
29	ON THE CALCULATION OF TURBULENT TRANSPORT IN FLOW THROUGH AN ASYMMETRICALLY HEATED PIPE. <i>Numerical Heat Transfer</i> , 1979 , 2, 359-371		5
28	Flow in Finite-Width Thrust Bearings Including Inertial Effects: III Turbulent Flow. <i>Journal of Lubrication Technology</i> , 1978 , 100, 339-345		10
27	Ground effects on pressure fluctuations in the atmospheric boundary layer. <i>Journal of Fluid Mechanics</i> , 1978 , 86, 491-511	3.7	1131
26	Flow in Finite-Width, Thrust Bearings Including Inertial Effects: II Laminar Flow. <i>Journal of Lubrication Technology</i> , 1978 , 100, 330-338		71
25	The Turbulent Jet in a Cross Stream at Low Injection Rates: A Three-Dimensional Numerical Treatment. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 1978 , 1, 217-242	1.3	6
24	The Calculation of Turbulent Boundary Layers on Spinning and Curved Surfaces. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1977 , 99, 231-239	2.1	149
23	Contribution towards a Reynolds-stress closure for low-Reynolds-number turbulence. <i>Journal of Fluid Mechanics</i> , 1976 , 74, 593-610	3.7	299
22	Comments on Improved form of the low Reynolds number k -turbulence model. <i>Physics of Fluids</i> , 1976 , 19, 765		2
21	The Near-Field Character of a Jet Discharged Normal to a Main Stream. <i>Journal of Heat Transfer</i> , 1976 , 98, 373-378	1.8	34
20	Computation of Annular, Turbulent Flow With Rotating Core Tube. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1976 , 98, 753-758	2.1	7
19	Discussion: A Reynolds Stress Model for Turbulent Corner Flows Parts I and II (Gessner, F. B., Emery, A. F., and Po, J. K., 1976, ASME J. Fluids Eng., 98, pp. 261-276). <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1976 , 98, 276-277	2.1	1
18	On the Calculation of Horizontal, Turbulent, Free Shear Flows Under Gravitational Influence. <i>Journal of Heat Transfer</i> , 1976 , 98, 81-87	1.8	137
17	The Prediction of Three-Dimensional Discrete-Hole Cooling Processes Part 1: Laminar Flow. <i>Journal of Heat Transfer</i> , 1976 , 98, 379-386	1.8	36
16	On the effects of a gravitational field on the turbulent transport of heat and momentum. <i>Journal of Fluid Mechanics</i> , 1975 , 67, 569-581	3.7	255
15	Progress in the development of a Reynolds-stress turbulence closure. <i>Journal of Fluid Mechanics</i> , 1975 , 68, 537-566	3.7	2775
14	Laminar Heat Transfer in Rotating Eccentric Annuli. <i>Journal of Mechanical Engineering Science</i> , 1974 , 16, 306-309		6

13	Discussion: Application of Energy Model of Turbulence to Calculation of Lubricant Flows (Ho, Mein-Kai, and Vohr, J. H., 1974, ASME J. Lubr. Technol., 96, pp. 95-102). <i>Journal of Lubrication Technology</i> , 1974 , 96, 102-102		
12	Prediction of Momentum, Heat and Mass Transfer in Swirling, Turbulent Boundary Layers. <i>Journal of Heat Transfer</i> , 1974 , 96, 204-209	1.8	45
11	Numerical Solutions of Flow between Rotating Cylinders. <i>Journal of Mechanical Engineering Science</i> , 1972 , 14, 400-403		10
10	Some properties of sink-flow turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 1972 , 56, 337-351	3.7	95
9	Secondary flows in ducts of square cross-section. <i>Journal of Fluid Mechanics</i> , 1972 , 54, 289-295	3.7	99
8	Fully developed asymmetric flow in a plane channel. <i>Journal of Fluid Mechanics</i> , 1972 , 51, 301-335	3.7	173
7	A Reynolds stress model of turbulence and its application to thin shear flows. <i>Journal of Fluid Mechanics</i> , 1972 , 52, 609-638	3.7	758
6	Discussion: Solution of the Incompressible Turbulent Boundary-Layer Equations With Heat Transfer (Cebeci, T., Smith, A. M. O., and Mosinskis, G., 1970, ASME J. Heat Transfer, 92, pp. 133-141). <i>Journal of Heat Transfer</i> , 1970 , 92, 141-141	1.8	
5	The Prandtl-Kolmogorov Model of Turbulence With the Inclusion of Second-Order Terms. <i>Journal of Basic Engineering</i> , 1969 , 91, 855-856		4
4	Sink flow turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 1969 , 38, 817-831	3.7	33
3	An Aspect of Heat Transfer in Accelerating Turbulent Boundary Layers. <i>Journal of Heat Transfer</i> , 1969 , 91, 229-234	1.8	12
2	Numerical Modeling of Heat Transfer in Wall-Adjacent Turbulent Flows 369-388		1
1	Osborne Reynolds: a turbulent life 1-39		5