

Brian Launder

List of Publications by Citations

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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	Progress in the development of a Reynolds-stress turbulence closure. <i>Journal of Fluid Mechanics</i> , 1975 , 68, 537-566	3.7	2775
83	Ground effects on pressure fluctuations in the atmospheric boundary layer. <i>Journal of Fluid Mechanics</i> , 1978 , 86, 491-511	3.7	1131
82	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
81	Contribution towards a Reynolds-stress closure for low-Reynolds-number turbulence. <i>Journal of Fluid Mechanics</i> , 1976 , 74, 593-610	3.7	299
80	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
79	On the Computation of Convective Heat Transfer in Complex Turbulent Flows. <i>Journal of Heat Transfer</i> , 1988 , 110, 1112-1128	1.8	223
78	ON THE CALCULATION OF TURBULENT HEAT TRANSPORT DOWNSTREAM FROM AN ABRUPT PIPE EXPANSION. <i>Numerical Heat Transfer</i> , 1980 , 3, 189-207		179
77	Fully developed asymmetric flow in a plane channel. <i>Journal of Fluid Mechanics</i> , 1972 , 51, 301-335	3.7	173
76	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
75	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
74	A second-moment closure study of rotating channel flow. <i>Journal of Fluid Mechanics</i> , 1987 , 183, 63-75	3.7	136
73	Sensitizing the Dissipation Equation to Irrotational Strains. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1980 , 102, 34-40	2.1	135
72	Secondary flows in ducts of square cross-section. <i>Journal of Fluid Mechanics</i> , 1972 , 54, 289-295	3.7	99
71	Marine cloud brightening. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 4217-62	3	97
70	Some properties of sink-flow turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 1972 , 56, 337-351	3.7	95
69	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
68	On the elimination of wall-topography parameters from second-moment closure. <i>Physics of Fluids</i> , 1994 , 6, 999-1006	4.4	81

67	On the spreading mechanism of the three-dimensional turbulent wall jet. <i>Journal of Fluid Mechanics</i> , 2001 , 435, 305-326	3.7	75
66	Laminar, Transitional, and Turbulent Flows in Rotor-Stator Cavities. <i>Annual Review of Fluid Mechanics</i> , 2010 , 42, 229-248	2.2	73
65	A NEW WALL FUNCTION STRATEGY FOR COMPLEX TURBULENT FLOWS. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2004 , 45, 301-318	1.3	73
64	Modelling Turbulence in Engineering and the Environment: Second-Moment Routes to Closure 2011 ,		73
63	Flow in Finite-Width, Thrust Bearings Including Inertial Effects: III Laminar Flow. <i>Journal of Lubrication Technology</i> , 1978 , 100, 330-338		71
62	LDA Investigation of the Flow Development Through Rotating U-Ducts. <i>Journal of Turbomachinery</i> , 1996 , 118, 590-596	1.8	69
61	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
60	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
59	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
58	Developing Buoyancy-Modified Turbulent Flow in Ducts Rotating in Orthogonal Mode. <i>Journal of Turbomachinery</i> , 1995 , 117, 474-484	1.8	46
57	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
56	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
55	Current capabilities for modelling turbulence in industrial flows. <i>Flow, Turbulence and Combustion</i> , 1991 , 48, 247-269		40
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	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
52	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
51	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
50	Sink flow turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 1969 , 38, 817-831	3.7	33

49	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
48	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
47	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
46	DISCUSSION OF ON THE CALCULATION OF TURBULENT HEAT TRANSPORT DOWNSTREAM FROM AN ABRUPT PIPE EXPANSION \square <i>Numerical Heat Transfer</i> , 1982 , 5, 493-496		26
45	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
44	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
43	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
42	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
41	PSL \square 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
40	Some Swirling-flow Challenges for Turbulent CFD. <i>Flow, Turbulence and Combustion</i> , 2008 , 80, 419-434	2.5	21
39	Linear and Nonlinear Eddy Viscosity Models 2001 , 9-46		20
38	On the prediction of riblet performance with engineering turbulence models. <i>Flow, Turbulence and Combustion</i> , 1993 , 50, 283-298		13
37	A numerical study of riblet effects on laminar flow through a plane channel. <i>Flow, Turbulence and Combustion</i> , 1989 , 46, 271-279		13
36	An Aspect of Heat Transfer in Accelerating Turbulent Boundary Layers. <i>Journal of Heat Transfer</i> , 1969 , 91, 229-234	1.8	12
35	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
34	TURBULENT MOMENTUM AND HEAT TRANSPORT IN SQUARE-SECTIONED DUCTS ROTATING IN ORTHOGONAL MODE. <i>Numerical Heat Transfer</i> , 1987 , 12, 475-491		10
33	Double-Row Discrete-Hole Cooling: an Experimental and Numerical Study. <i>Journal of Engineering for Power</i> , 1980 , 102, 498-503		10
32	Flow in Finite-Width Thrust Bearings Including Inertial Effects: \square Turbulent Flow. <i>Journal of Lubrication Technology</i> , 1978 , 100, 339-345		10

31	Numerical Solutions of Flow between Rotating Cylinders. <i>Journal of Mechanical Engineering Science</i> , 1972 , 14, 400-403		10
30	The Prediction of Force Field Effects on Turbulent Shear Flows via Second-Moment Closure 1989 , 338-358		10
29	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
28	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
27	Transitional Turbulent flow with heat transfer in a closed rotor-stator cavity. <i>Journal of Turbulence</i> , 2004 , 5,	2.1	6
26	LDA Investigation of the Flow Development Through Rotating U-DUCTS 1994 ,		6
25	Laminar Heat Transfer in Rotating Eccentric Annuli. <i>Journal of Mechanical Engineering Science</i> , 1974 , 16, 306-309		6
24	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
23	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
22	LDA Study of the Flow Development Through an Orthogonally Rotating U-Bend of Strong Curvature and Rib Roughened Walls 1996 ,		5
21	ON THE CALCULATION OF TURBULENT TRANSPORT IN FLOW THROUGH AN ASYMMETRICALLY HEATED PIPE. <i>Numerical Heat Transfer</i> , 1979 , 2, 359-371		5
20	Osborne Reynolds: a turbulent life 1-39		5
19	Closure Modelling Near the Two-Component Limit 2001 , 102-126		4
18	Simulation of Coherent Eddy Structure in Buoyancy-Driven Flows with Single-Point Turbulence Closure Models 2001 , 659-684		4
17	The Prandtl-Kolmogorov Model of Turbulence With the Inclusion of Second-Order Terms. <i>Journal of Basic Engineering</i> , 1969 , 91, 855-856		4
16	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
15	Horace Lamb and how he found his way back to Manchester. <i>Comptes Rendus - Mecanique</i> , 2017 , 345, 477-487	2.1	2
14	Horace Lamb & Osborne Reynolds: Remarkable Mancunians ... and their Interactions. <i>Journal of Physics: Conference Series</i> , 2014 , 530, 012001	0.3	2

13	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
12	Comments on Improved form of the low Reynolds number $k\epsilon$ turbulence model <i>Physics of Fluids</i> , 1976 , 19, 765		2
11	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
10	Numerical Modeling of Heat Transfer in Wall-Adjacent Turbulent Flows 369-388		1
9	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
8	Eddy-Viscosity Transport Modelling: A Historical Review 2020 , 295-316		0
7	Hurricanes: An Engineering View of their Structure and Strategies for their Extinction. <i>Flow, Turbulence and Combustion</i> , 2017 , 98, 969-985	2.5	
6	Écoulement en eau peu profonde autour d'un modèle d'île conique. <i>Revue Européenne Des Elements</i> , 2003 , 12, 361-371		
5	Developments in the understanding and modelling of turbulence 2005 , 5-49		
4	RANS modelling of turbulent flows affected by buoyancy or stratification 2005 , 50-127		
3	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	
2	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		
1	Spirally fluted tubing: prediction and measurement. <i>Houille Blanche</i> , 1995 , 81, 86-92	0.3	