Brian Launder

List of Publications by Year
in descending order

Version: 2024-02-01

84 papers	10,354 citations	94269 37 h-index	85405 71 g-index
95 all docs	95 docs citations	95 times ranked	3252 citing authors

#	Article	IF	Citations
1	Reassessment of modeling turbulence via Reynolds averaging: A review of second-moment transport strategy. Physics of Fluids, 2021, 33, .	1.6	9
2	Eddy-Viscosity Transport Modelling: A Historical Review. , 2020, , 295-316.		5
3	Hurricanes: An Engineering View of their Structure and Strategies for their Extinction. Flow, Turbulence and Combustion, 2017, 98, 969-985.	1.4	0
4	Horace Lambâ€¦ and how he found his way back to Manchester. Comptes Rendus - Mecanique, 2017, 345, 477-487.	2.1	2
5	First steps in modelling turbulence and its origins: a commentary on Reynolds (1895) â€˜On the dynamical theory of incompressible viscous fluids and the determination of the criterionâ€™. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140231.	1.6	12
6	Horace Lamb & Osborne Reynolds: Remarkable Mancunians ... and their Interactions. Journal of Physics: Conference Series, 2014, 530, 012001.	0.3	2
7	Back to the Future? A Re-examination of the Aerodynamics of Flettner-Thom Rotors for Maritime Propulsion. Flow, Turbulence and Combustion, 2014, 92, 413-427.	1.4	8
8	A comparison and assessment of approaches for modelling flow over in-line tube banks. International Journal of Heat and Fluid Flow, 2014, 49, 69-79.	1.1	38
9	Climate engineering: exploring nuances and consequences of deliberately altering the Earth's energy budget. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140050.	1.6	2
10	Horace Lamb and the circumstances of his appointment at Owens College. Notes and Records of the Royal Society, 2013, 67, 139-158.	0.1	2
11	Marine cloud brightening. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 4217-4262.	1.6	125
12	Laminar, Transitional, and Turbulent Flows in Rotor-Stator Cavities. Annual Review of Fluid Mechanics, 2010, 42, 229-248.	10.8	88
13	A tribute to D.B. Spalding and his contributions in science and engineering. International Journal of Heat and Mass Transfer, 2009, 52, 3884-3905.	2.5	33
14	Some Swirling-flow Challenges for Turbulent CFD. Flow, Turbulence and Combustion, 2008, 80, 419-434.	1.4	23
15	Preface. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3841-3842.	1.6	14
16	Internal blade cooling: The Cinderella of computational and experimental fluid dynamics research in gas turbines. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2007, 221, 265-290.	0.8	26
17	Osborne Reynolds and the Publication of His Papers on Turbulent Flow. Annual Review of Fluid Mechanics, 2007, 39, 19-35.	10.8	56
18	CMFF06 Special Issue of IJHFF. International Journal of Heat and Fluid Flow, 2007, 28, 541.	1.1	0

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19	Development and application of wall-function treatments for turbulent forced and mixed convection flows. Fluid Dynamics Research, 2006, 38, 127-144.	0.6	41
20	A computational study of the near-field generation and decay of wingtip vortices. International Journal of Heat and Fluid Flow, 2006, 27, 684-695.	1.1	44
21	Large Eddy Simulation of Transitional Rotor-Stator Flows using a Spectral Vanishing Viscosity Technique. , 2006, , 217-224.		1
22	Developments in the understanding and modelling of turbulence. , 2005, , 5-49.		0
23	RANS modelling of turbulent flows affected by buoyancy or stratification. , 2005, , 50-127.		0
24	Transitional-turbulent flow with heat transfer in a closed rotor-stator cavity. Journal of Turbulence, 2004, 5, .	0.5	8
25	A NEW WALL FUNCTION STRATEGY FOR COMPLEX TURBULENT FLOWS. Numerical Heat Transfer, Part B: Fundamentals, 2004, 45, 301-318.	0.6	88
26	Ã‰coulement en eau peu profonde autour d'un modÃ¨le d'Ã®le conique. Revue Europeenne Des Elements, 2003, 12, 361-371.	0.1	0
27	Developments in turbulence research: a review based on the 1999 Programme of the Isaac Newton Institute, Cambridge. Journal of Fluid Mechanics, 2001, 436, 353-391.	1.4	44
28	On the spreading mechanism of the three-dimensional turbulent wall jet. Journal of Fluid Mechanics, 2001, 435, 305-326.	1.4	95
29	Closure Modelling Near the Two-Component Limit. , 2001, , 102-126.		8
30	Simulation of Coherent Eddy Structure in Buoyancy-Driven Flows with Single-Point Turbulence Closure Models. , 2001, , 659-684.		5
31	LDA Study of the Flow Development Through an Orthogonally Rotating U-Bend of Strong Curvature and Rib-Roughened Walls. Journal of Turbomachinery, 1998, 120, 386-391.	0.9	48
32	LDA Investigation of the Flow Development Through Rotating U-Ducts. Journal of Turbomachinery, 1996, 118, 590-596.	0.9	84
33	LDA Study of the Flow Development Through an Orthogonally Rotating U-Bend of Strong Curvature and Rib Roughened Walls. , 1996, , .		5
34	Developing Buoyancy-Modified Turbulent Flow in Ducts Rotating in Orthogonal Mode. Journal of Turbomachinery, 1995, 117, 474-484.	0.9	59
35	Spirally fluted tubing: prediction and measurement. Houille Blanche, 1995, 81, 86-92.	0.3	0
36	On the elimination of wallâ€topography parameters from secondâ€moment closure. Physics of Fluids, 1994, 6, 999-1006.	1.6	95

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37	LDA Investigation of the Flow Development Through Rotating U-DUCTS. , 1994, , .		11
38	On the prediction of riblet performance with engineering turbulence models. Flow, Turbulence and Combustion, 1993, 50, 283-298.	0.2	18
39	Current capabilities for modelling turbulence in industrial flows. Flow, Turbulence and Combustion, 1991, 48, 247-269.	0.2	49
40	Turbulent Boundary-Layer Development Around a Square-Sectioned U-Bend: Measurements and Computation. Journal of Fluids Engineering, Transactions of the ASME, 1990, 112, 409-415.	0.8	27
41	Heat Transfer, Temperature, and Velocity Measurements Downstream of an Abrupt Expansion in a Circular Tube at a Uniform Wall Temperature. Journal of Heat Transfer, 1989, 111, 870-876.	1.2	31
42	Numerical Computation of Turbulent Flow in a Square-Sectioned 180 Deg Bend. Journal of Fluids Engineering, Transactions of the ASME, 1989, 111, 59-68.	0.8	76
43	A numerical study of riblet effects on laminar flow through a plane channel. Flow, Turbulence and Combustion, 1989, 46, 271-279.	0.2	18
44	The Prediction of Force Field Effects on Turbulent Shear Flows via Second-Moment Closure. , 1989, , 338-358.		12
45	On the Computation of Convective Heat Transfer in Complex Turbulent Flows. Journal of Heat Transfer, 1988, 110, 1112-1128.	1.2	268
46	A Comparison of Algebraic and Differential Second-Moment Closures for Axisymmetric Turbulent Shear Flows With and Without Swirl. Journal of Fluids Engineering, Transactions of the ASME, 1988, 110, 216-221.	0.8	62
47	TURBULENT MOMENTUM AND HEAT TRANSPORT IN SQUARE-SECTIONED DUCTS ROTATING IN ORTHOGONAL MODE. Numerical Heat Transfer, 1987, 12, 475-491.	0.5	12
48	A second-moment closure study of rotating channel flow. Journal of Fluid Mechanics, 1987, 183, 63-75.	1.4	162
49	Developing Turbulent Flow in a U-Bend of Circular Cross-Section: Measurement and Computation. Journal of Fluids Engineering, Transactions of the ASME, 1986, 108, 214-221.	0.8	87
50	Local Heat Transfer Downstream of an Abrupt Expansion in a Circular Channel With Constant Wall Heat Flux. Journal of Heat Transfer, 1984, 106, 789-796.	1.2	98
51	PSLâ€”An Economical Approach to the Numerical Analysis of Near-Wall, Elliptic Flow. Journal of Fluids Engineering, Transactions of the ASME, 1984, 106, 241-242.	0.8	24
52	DISCUSSION OF â€œON THE CALCULATION OF TURBULENT HEAT TRANSPORT DOWNSTREAM FROM AN ABRUPT PIPE EXPANSIONâ€. Numerical Heat Transfer, 1982, 5, 493-496.	0.5	32
53	Double-Row Discrete-Hole Cooling: an Experimental and Numerical Study. Journal of Engineering for Power, 1980, 102, 498-503.	0.2	13
54	Sensitizing the Dissipation Equation to Irrotational Strains. Journal of Fluids Engineering, Transactions of the ASME, 1980, 102, 34-40.	0.8	161

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55	ON THE CALCULATION OF TURBULENT HEAT TRANSPORT DOWNSTREAM FROM AN ABRUPT PIPE EXPANSION. Numerical Heat Transfer, 1980, 3, 189-207.	0.5	202
56	ON THE CALCULATION OF TURBULENT TRANSPORT IN FLOW THROUGH AN ASYMMETRICALLY HEATED PIPE. Numerical Heat Transfer, 1979, 2, 359-371.	0.5	6
57	Flow in Finite-Width Thrust Bearings Including Inertial Effects: IIâ€”Turbulent Flow. Journal of Lubrication Technology, 1978, 100, 339-345.	0.1	16
58	Ground effects on pressure fluctuations in the atmospheric boundary layer. Journal of Fluid Mechanics, 1978, 86, 491-511.	1.4	1,402
59	Flow in Finite-Width, Thrust Bearings Including Inertial Effects: Iâ€”Laminar Flow. Journal of Lubrication Technology, 1978, 100, 330-338.	0.1	79
60	The Turbulent Jet in a Cross Stream at Low Injection Rates: A Three-Dimensional Numerical Treatment. Numerical Heat Transfer, Part B: Fundamentals, 1978, 1, 217-242.	0.6	7
61	The Calculation of Turbulent Boundary Layers on Spinning and Curved Surfaces. Journal of Fluids Engineering, Transactions of the ASME, 1977, 99, 231-239.	0.8	185
62	Contribution towards a Reynolds-stress closure for low-Reynolds-number turbulence. Journal of Fluid Mechanics, 1976, 74, 593-610.	1.4	393
63	Comments on â€™â€™Improved form of the low Reynolds number kâ‰ˆÉ› turbulence modelâ€™â€™. Physics of Fluids, 1976, 19, 765.	1.4	2
64	The Near-Field Character of a Jet Discharged Normal to a Main Stream. Journal of Heat Transfer, 1976, 98, 373-378.	1.2	42
65	Computation of Annular, Turbulent Flow With Rotating Core Tube. Journal of Fluids Engineering, Transactions of the ASME, 1976, 98, 753-758.	0.8	9
66	Discussion: â€œA Reynolds Stress Model for Turbulent Corner Flowsâ€”Parts I and IIâ€•(Gessner, F. B.,) Tj ETQq0 0 0 rgBT /Overlock 10 T Transactions of the ASME, 1976, 98, 276-277.	0.8	1
67	On the Calculation of Horizontal, Turbulent, Free Shear Flows Under Gravitational Influence. Journal of Heat Transfer, 1976, 98, 81-87.	1.2	155
68	The Prediction of Three-Dimensional Discrete-Hole Cooling Processesâ€”Part 1: Laminar Flow. Journal of Heat Transfer, 1976, 98, 379-386.	1.2	40
69	On the effects of a gravitational field on the turbulent transport of heat and momentum. Journal of Fluid Mechanics, 1975, 67, 569-581.	1.4	327
70	Progress in the development of a Reynolds-stress turbulence closure. Journal of Fluid Mechanics, 1975, 68, 537-566.	1.4	3,450
71	Discussion: â€œApplication of Energy Model of Turbulence to Calculation of Lubricant Flowsâ€•(Ho,) Tj ETQq1 1 0.784314 rgBT /Over 1974, 96, 102-102.	0.1	0
72	Prediction of Momentum, Heat and Mass Transfer in Swirling, Turbulent Boundary Layers. Journal of Heat Transfer, 1974, 96, 204-209.	1.2	49

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73	Laminar Heat Transfer in Rotating Eccentric Annuli. Journal of Mechanical Engineering Science, 1974, 16, 306-309.	0.3	6
74	Numerical Solutions of Flow between Rotating Cylinders. Journal of Mechanical Engineering Science, 1972, 14, 400-403.	0.3	10
75	Some properties of sink-flow turbulent boundary layers. Journal of Fluid Mechanics, 1972, 56, 337-351.	1.4	126
76	Secondary flows in ducts of square cross-section. Journal of Fluid Mechanics, 1972, 54, 289-295.	1.4	134
77	Fully developed asymmetric flow in a plane channel. Journal of Fluid Mechanics, 1972, 51, 301-335.	1.4	239
78	A Reynolds stress model of turbulence and its application to thin shear flows. Journal of Fluid Mechanics, 1972, 52, 609-638.	1.4	921
79	Discussion: â€œSolution of the Incompressible Turbulent Boundary-Layer Equations With Heat Transferâ€• (Cebeci, T., Smith, A. M. O., and Mosinskis, G., 1970, ASME J. Heat Transfer, 92, pp. 133â€“141). Journal of Heat Transfer, 1970, 92, 141-141.	1.2	0
80	The Prandtl-Kolmogorov Model of Turbulence With the Inclusion of Second-Order Terms. Journal of Basic Engineering, 1969, 91, 855-856.	0.1	6
81	Sink flow turbulent boundary layers. Journal of Fluid Mechanics, 1969, 38, 817-831.	1.4	44
82	An Aspect of Heat Transfer in Accelerating Turbulent Boundary Layers. Journal of Heat Transfer, 1969, 91, 229-234.	1.2	13
83	Osborne Reynolds: a turbulent life. , 0, , 1-39.		6
84	Numerical Modeling of Heat Transfer in Wall-Adjacent Turbulent Flows. , 0, , 369-388.		1