

Bassam A Younis

List of Publications by Year in descending order

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69
papers

1,215
citations

430442

18
h-index

395343

33
g-index

71
all docs

71
docs citations

71
times ranked

796
citing authors

#	ARTICLE	IF	CITATIONS
1	A second-moment closure study of rotating channel flow. <i>Journal of Fluid Mechanics</i> , 1987, 183, 63-75.	1.4	162
2	Calculation of swirling jets with a Reynolds stress closure. <i>Physics of Fluids</i> , 1986, 29, 38.	1.4	100
3	Calculation of turbulent boundary layers on curved surfaces. <i>Physics of Fluids</i> , 1981, 24, 386.	1.4	64
4	A rational model for the turbulent scalar fluxes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2005, 461, 575-594.	1.0	62
5	Analysis and modelling of turbulent flow in an axially rotating pipe. <i>Journal of Fluid Mechanics</i> , 2000, 407, 1-26.	1.4	52
6	A low Reynolds number turbulence closure for viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 154, 89-108.	1.0	51
7	Computation of turbulent vortex shedding. <i>Computational Mechanics</i> , 2006, 37, 408-425.	2.2	50
8	On the prediction of turbulent flows around full-scale buildings. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2000, 86, 203-220.	1.7	44
9	A FENE-P turbulence model for low and intermediate regimes of polymer-induced drag reduction. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 639-660.	1.0	43
10	Calculation of turbulent buoyant plumes with a Reynolds stress and heat flux transport closure. <i>International Journal of Heat and Mass Transfer</i> , 1990, 33, 2247-2264.	2.5	40
11	Large-Eddy Simulations and Heat-Flux Modeling in a Turbulent Impinging Jet. <i>Numerical Heat Transfer; Part A: Applications</i> , 2009, 55, 906-930.	1.2	28
12	A Turbulence Model for Pulsatile Arterial Flows. <i>Journal of Biomechanical Engineering</i> , 2004, 126, 578-584.	0.6	25
13	Term-by-Term Analysis of Near-Wall Second-Moment Closures. <i>AIAA Journal</i> , 2012, 50, 2848-2864.	1.5	25
14	Estimation of key parameters in model for solute transport in rivers and streams. <i>Water Resources Management</i> , 2007, 21, 1165-1186.	1.9	22
15	Comments on "prediction of the wind-generated pressure distribution around buildings" by E.H. Mathews. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1990, 34, 107-110.	1.7	21
16	Distributed hydrological modeling with channel network flow of a forestry drained peatland site. <i>Water Resources Research</i> , 2016, 52, 246-263.	1.7	20
17	Modeling the curved turbulent wall jet. <i>AIAA Journal</i> , 1982, 20, 1707-1712.	1.5	19
18	Geometric parameters that affect wind loads on low-rise buildings: full-scale and CFD experiments. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1993, 50, 243-252.	1.7	19

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19	Prediction of Bank Erosion in a Reach of the Sacramento River and its Mitigation with Groynes. <i>Water Resources Management</i> , 2009, 23, 3121-3147.	1.9	19
20	Development of a Low-Reynolds-number $k-\epsilon$ Model for FENE-P Fluids. <i>Flow, Turbulence and Combustion</i> , 2013, 90, 69-94.	1.4	19
21	Heat transfer enhancement in a ribbed channel: Development of turbulence closures. <i>International Journal of Heat and Mass Transfer</i> , 2014, 76, 509-522.	2.5	18
22	Turbulence measurements in a developing mixing layer with mild destabilising curvature. <i>Experiments in Fluids</i> , 1983, 1, 23-30.	1.1	16
23	Prediction of turbulent flows in dredged trenches. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1995, 33, 813-824.	0.7	16
24	Large-Eddy Simulations of cavitation in a square surface cavity. <i>Applied Mathematical Modelling</i> , 2014, 38, 5665-5683.	2.2	16
25	Unsteady Flow Simulation and Erosion Assessment in a Ditch Network of a Drained Peatland Forest Catchment in Eastern Finland. <i>Water Resources Management</i> , 2014, 28, 5175-5197.	1.9	15
26	Compound-channel flows: A parametric study using a Reynolds-stress transport closure. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1995, 33, 307-320.	0.7	14
27	A computational and experimental study of thermal energy separation by swirl. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 11-19.	2.5	14
28	The prediction of turbulent transport in an axially rotating pipe. <i>International Communications in Heat and Mass Transfer</i> , 1997, 24, 89-98.	2.9	13
29	LES and URANS predictions of the hydrodynamic loads on a tension-leg platform. <i>Journal of Fluids and Structures</i> , 2012, 28, 244-262.	1.5	13
30	Estimating the hydrodynamic forces on a mini TLP with computational fluid dynamics and design-code techniques. <i>Ocean Engineering</i> , 2001, 28, 585-602.	1.9	12
31	Assessment of the SSG pressure-strain model in two-dimensional turbulent separated flows. <i>Flow, Turbulence and Combustion</i> , 1995, 55, 39-61.	0.2	11
32	Accounting for mean-flow periodicity in turbulence closures. <i>Physics of Fluids</i> , 2006, 18, 018102.	1.6	11
33	Objective Model for the Fluctuating Pressure-Strain-Rate Correlations. <i>Journal of Engineering Mechanics - ASCE</i> , 2009, 135, 1006-1014.	1.6	11
34	Development of a compact explicit algebraic model for the turbulent heat fluxes and its application in heated rotating flows. <i>International Journal of Heat and Mass Transfer</i> , 2015, 86, 880-889.	2.5	11
35	Prediction of vortex shedding suppression from circular cylinders at high Reynolds number using base splitter plates. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 182, 115-127.	1.7	11
36	Prediction of Vortex Shedding with Heat Transfer. <i>Numerical Heat Transfer; Part A: Applications</i> , 2005, 48, 1-19.	1.2	10

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37	Large-Eddy Simulations of turbulent flow through a heated square duct. <i>International Journal of Thermal Sciences</i> , 2019, 135, 302-318.	2.6	9
38	Simulation of flow in an exact replica of a diseased human carotid artery. <i>Applied Mathematical Modelling</i> , 2007, 31, 2599-2609.	2.2	8
39	Computational modeling of ultraviolet disinfection. <i>Water Science and Technology</i> , 2010, 62, 1872-1878.	1.2	8
40	A Novel System for Water Disinfection with UV Radiation. <i>Water (Switzerland)</i> , 2018, 10, 1275.	1.2	8
41	Inactivation of plant pathogens in irrigation water runoff using a novel UV disinfection system. <i>European Journal of Plant Pathology</i> , 2019, 153, 907-914.	0.8	8
42	OpenFOAM predictions of hydrodynamics loads on full-scale TLP. <i>Ocean Engineering</i> , 2015, 102, 162-173.	1.9	7
43	Progress in the prediction of turbulent wind loading on buildings. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1992, 44, 2863-2874.	1.7	6
44	Prediction of turbulent heat transfer with surface blowing using a non-linear algebraic heat flux model. <i>International Journal of Heat and Fluid Flow</i> , 2003, 24, 680-684.	1.1	6
45	Prediction of hydrodynamic loading on a mini TLP with free surface effects. <i>Ocean Engineering</i> , 2006, 33, 181-204.	1.9	6
46	Objective tensorial representation of the pressure-strain correlations of turbulence. <i>Mechanics Research Communications</i> , 2007, 34, 319-324.	1.0	6
47	Large-eddy simulations of flow and heat transfer in heated concentric annulus with inner cylinder rotation. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 1248-1262.	2.5	6
48	Eddy-viscosity vs. second-order closures for flows in noncircular ducts. <i>AIChE Journal</i> , 1997, 43, 893-901.	1.8	4
49	Isotropic tensor-valued polynomial function of second and third-order tensors. <i>International Journal of Engineering Science</i> , 2005, 43, 447-456.	2.7	4
50	Prediction of momentum and scalar transport in turbulent swirling flows with an objective Reynolds-stress transport closure. <i>Heat and Mass Transfer</i> , 2009, 45, 1271-1283.	1.2	4
51	Explicit GPU Based Second-Order Finite-Difference Modeling on a High Resolution Surface, Feather River, California. <i>Water Resources Management</i> , 2016, 30, 261-277.	1.9	4
52	Large-Eddy Simulations of heated flows in ribbed channels with spanwise rotation. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018, 74, 895-916.	1.2	3
53	Accounting for the effects of buoyancy on the turbulent scalar fluxes. <i>Environmental Fluid Mechanics</i> , 2019, 19, 495-512.	0.7	3
54	Calculations of the concentration field of a turbulent methane jet. <i>Applied Mathematical Modelling</i> , 1992, 16, 476-483.	2.2	2

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55	On Predicting the Effects of Streamline Curvature on the Turbulent Prandtl Number. Journal of Applied Mechanics, Transactions ASME, 2006, 73, 391-396.	1.1	2
56	Uncertainties in the prediction of flow in a long reach of the Sacramento River. Water and Environment Journal, 2009, 23, 272-285.	1.0	2
57	Prediction of the Asymptotic Water Depth in Rough Compound Channels. Journal of Irrigation and Drainage Engineering - ASCE, 2009, 135, 231-234.	0.6	2
58	Selective application of a total variation diminishing term to an implicit method for two-dimensional flow modelling. Journal of Flood Risk Management, 2015, 8, 52-61.	1.6	2
59	Prediction of Vortex Shedding Control by Means of Splitter Plates. , 2017, , .		2
60	Field evaluation of a novel <scp>UV</scp> water disinfection system for use in underserved rural communities. Water Environment Research, 2019, 91, 75-82.	1.3	2
61	Prediction of mass and momentum transport in turbulent plane wall jets over smooth and transitionally rough surfaces. Environmental Fluid Mechanics, 2016, 16, 485-502.	0.7	1
62	A novel system for the treatment of wastewater from a tomato processing plant with UV light. Water Practice and Technology, 2018, 13, 662-672.	1.0	1
63	A Turbulence Closure Study of the Flow and Thermal Fields in the Ekman Layer. Boundary-Layer Meteorology, 2020, 175, 25-55.	1.2	1
64	Prediction of Flow and Bank Erosion in the Sacramento River. , 2006, , 1.		0
65	Effects of Groin Structures on the Sacramento River Flow. , 2007, , 1.		0
66	Near-wall second moment closure based on DNS analysis of pressure correlations. , 2011, , .		0
67	Vortex Shedding Control Using Jets: A Computational Study With Lattice Boltzmann Method. , 2016, , .		0
68	A Proposal for Modeling Intermittent Transitional Pulsatile Flows. , 2003, , .		0
69	Prediction of Heat Transfer Rates in Shear Flows With Streamline Curvature. , 2003, , .		0