Bassam A Younis

List of Publications by Year
in descending order

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 Turbulence Closure Study of the Flow and Thermal Fields in the Ekman Layer. Boundary-Layer Meteorology, 2020, 175, 25-55.	1.2	1
2	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
3	Inactivation of plant pathogens in irrigation water runoff using a novel UV disinfection system. European Journal of Plant Pathology, 2019, 153, 907-914.	0.8	8
4	Accounting for the effects of buoyancy on the turbulent scalar fluxes. Environmental Fluid Mechanics, 2019, 19, 495-512.	0.7	3
5	Large-Eddy Simulations of turbulent flow through a heated square duct. International Journal of Thermal Sciences, 2019, 135, 302-318.	2.6	9
6	A computational and experimental study of thermal energy separation by swirl. International Journal of Heat and Mass Transfer, 2018, 124, 11-19.	2.5	14
7	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
8	Large-Eddy Simulations of heated flows in ribbed channels with spanwise rotation. Numerical Heat Transfer; Part A: Applications, 2018, 74, 895-916.	1.2	3
9	A Novel System for Water Disinfection with UV Radiation. Water (Switzerland), 2018, 10, 1275.	1.2	8
10	Prediction of vortex shedding suppression from circular cylinders at high Reynolds number using base splitter plates. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 182, 115-127.	1.7	11
11	Prediction of Vortex Shedding Control by Means of Splitter Plates. , 2017, , .		2
12	Large-eddy simulations of flow and heat transfer in heated concentric annulus with inner cylinder rotation. International Journal of Heat and Mass Transfer, 2017, 114, 1248-1262.	2.5	6
13	Distributed hydrological modeling with channel network flow of a forestry drained peatland site. Water Resources Research, 2016, 52, 246-263.	1.7	20
14	Vortex Shedding Control Using Jets: A Computational Study With Lattice Boltzmann Method. , 2016, , .		0
15	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
16	Explicit GPU Based Second-Order Finite-Difference Modeling on a High Resolution Surface, Feather River, California. Water Resources Management, 2016, 30, 261-277.	1.9	4
17	Selective application of a total variation diminishing term to an implicit method for twoâ€dimensional flow modelling. Journal of Flood Risk Management, 2015, 8, 52-61.	1.6	2
18	OpenFOAM predictions of hydrodynamics loads on full-scale TLP. Ocean Engineering, 2015, 102, 162-173.	1.9	7

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19	Development of a compact explicit algebraic model for the turbulent heat fluxes and its application in heated rotating flows. International Journal of Heat and Mass Transfer, 2015, 86, 880-889.	2.5	11
20	Unsteady Flow Simulation and Erosion Assessment in a Ditch Network of a Drained Peatland Forest Catchment in Eastern Finland. Water Resources Management, 2014, 28, 5175-5197.	1.9	15
21	Large-Eddy Simulations of cavitation in a square surface cavity. Applied Mathematical Modelling, 2014, 38, 5665-5683.	2.2	16
22	Heat transfer enhancement in a ribbed channel: Development of turbulence closures. International Journal of Heat and Mass Transfer, 2014, 76, 509-522.	2.5	18
23	Development of a Low-Reynolds-number k-Ï‰ Model for FENE-P Fluids. Flow, Turbulence and Combustion, 2013, 90, 69-94.	1.4	19
24	Term-by-Term Analysis of Near-Wall Second-Moment Closures. AIAA Journal, 2012, 50, 2848-2864.	1.5	25
25	LES and URANS predictions of the hydrodynamic loads on a tension-leg platform. Journal of Fluids and Structures, 2012, 28, 244-262.	1.5	13
26	Near-wall second moment closure based on DNS analysis of pressure correlations. , 2011, , .		0
27	A FENE-P kâ€'Îµ turbulence model for low and intermediate regimes of polymer-induced drag reduction. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 639-660.	1.0	43
28	Computational modeling of ultraviolet disinfection. Water Science and Technology, 2010, 62, 1872-1878.	1.2	8
29	Objective Model for the Fluctuating Pressure-Strain-Rate Correlations. Journal of Engineering Mechanics - ASCE, 2009, 135, 1006-1014.	1.6	11
30	Prediction of Bank Erosion in a Reach of the Sacramento River and its Mitigation with Groynes. Water Resources Management, 2009, 23, 3121-3147.	1.9	19
31	Prediction of momentum and scalar transport in turbulent swirling flows with an objective Reynolds-stress transport closure. Heat and Mass Transfer, 2009, 45, 1271-1283.	1.2	4
32	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
33	Prediction of the Asymptotic Water Depth in Rough Compound Channels. Journal of Irrigation and Drainage Engineering - ASCE, 2009, 135, 231-234.	0.6	2
34	Large-Eddy Simulations and Heat-Flux Modeling in a Turbulent Impinging Jet. Numerical Heat Transfer; Part A: Applications, 2009, 55, 906-930.	1.2	28
35	A low Reynolds number turbulence closure for viscoelastic fluids. Journal of Non-Newtonian Fluid Mechanics, 2008, 154, 89-108.	1.0	51
36	Effects of Groin Structures on the Sacramento River Flow. , 2007, , 1.		0

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37	Simulation of flow in an exact replica of a diseased human carotid artery. Applied Mathematical Modelling, 2007, 31, 2599-2609.	2.2	8
38	Objective tensorial representation of the pressure–strain correlations of turbulence. Mechanics Research Communications, 2007, 34, 319-324.	1.0	6
39	Estimation of key parameters in model for solute transport in rivers and streams. Water Resources Management, 2007, 21, 1165-1186.	1.9	22
40	Computation of turbulent vortex shedding. Computational Mechanics, 2006, 37, 408-425.	2.2	50
41	Prediction of hydrodynamic loading on a mini TLP with free surface effects. Ocean Engineering, 2006, 33, 181-204.	1.9	6
42	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
43	Prediction of Flow and Bank Erosion in the Sacramento River. , 2006, , 1.		0
44	Accounting for mean-flow periodicity in turbulence closures. Physics of Fluids, 2006, 18, 018102.	1.6	11
45	Isotropic tensor-valued polynomial function of second and third-order tensors. International Journal of Engineering Science, 2005, 43, 447-456.	2.7	4
46	Prediction of Vortex Shedding with Heat Transfer. Numerical Heat Transfer; Part A: Applications, 2005, 48, 1-19.	1.2	10
47	A rational model for the turbulent scalar fluxes. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2005, 461, 575-594.	1.0	62
48	A Turbulence Model for Pulsatile Arterial Flows. Journal of Biomechanical Engineering, 2004, 126, 578-584.	0.6	25
49	Prediction of turbulent heat transfer with surface blowing using a non-linear algebraic heat flux model. International Journal of Heat and Fluid Flow, 2003, 24, 680-684.	1.1	6
50	A Proposal for Modeling Intermittent Transitional Pulsatile Flows. , 2003, , .		0
51	Prediction of Heat Transfer Rates in Shear Flows With Streamline Curvature. , 2003, , .		0
52	Estimating the hydrodynamic forces on a mini TLP with computational fluid dynamics and design-code techniques. Ocean Engineering, 2001, 28, 585-602.	1.9	12
53	On the prediction of turbulent flows around full-scale buildings. Journal of Wind Engineering and Industrial Aerodynamics, 2000, 86, 203-220.	1.7	44
54	Analysis and modelling of turbulent flow in an axially rotating pipe. Journal of Fluid Mechanics, 2000, 407, 1-26.	1.4	52

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55	The prediction of turbulent transport in an axially rotating pipe. International Communications in Heat and Mass Transfer, 1997, 24, 89-98.	2.9	13
56	Eddy-viscosity vs. second-order closures for flows in noncircular ducts. AICHE Journal, 1997, 43, 893-901.	1.8	4
57	Prediction of turbulent flows in dredged trenches. Journal of Hydraulic Research/De Recherches Hydrauliques, 1995, 33, 813-824.	0.7	16
58	Assessment of the SSG pressure-strain model in two-dimensional turbulent separated flows. Flow, Turbulence and Combustion, 1995, 55, 39-61.	0.2	11
59	Compound-channel flows: A parametric study using a Reynolds-stress transport closure. Journal of Hydraulic Research/De Recherches Hydrauliques, 1995, 33, 307-320.	0.7	14
60	Geometric parameters that affect wind loads on low-rise buildings: full-scale and CFD experiments. Journal of Wind Engineering and Industrial Aerodynamics, 1993, 50, 243-252.	1.7	19
61	Calculations of the concentration field of a turbulent methane jet. Applied Mathematical Modelling, 1992, 16, 476-483.	2.2	2
62	Progress in the prediction of turbulent wind loading on buildings. Journal of Wind Engineering and Industrial Aerodynamics, 1992, 44, 2863-2874.	1.7	6
63	Comments on â€œprediction of the wind-generated pressure distribution around buildingsâ€•by E.H. Mathews. Journal of Wind Engineering and Industrial Aerodynamics, 1990, 34, 107-110.	1.7	21
64	Calculation of turbulent buoyant plumes with a Reynolds stress and heat flux transport closure. International Journal of Heat and Mass Transfer, 1990, 33, 2247-2264.	2.5	40
65	A second-moment closure study of rotating channel flow. Journal of Fluid Mechanics, 1987, 183, 63-75.	1.4	162
66	Calculation of swirling jets with a Reynolds stress closure. Physics of Fluids, 1986, 29, 38.	1.4	100
67	Turbulence measurements in a developing mixing layer with mild destabilising curvature. Experiments in Fluids, 1983, 1, 23-30.	1.1	16
68	Modeling the curved turbulent wall jet. AIAA Journal, 1982, 20, 1707-1712.	1.5	19
69	Calculation of turbulent boundary layers on curved surfaces. Physics of Fluids, 1981, 24, 386.	1.4	64