

Mark Francis Tachie

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,061
citations

361045

20
h-index

500791

28
g-index

80
all docs

80
docs citations

80
times ranked

540
citing authors

#	ARTICLE	IF	CITATIONS
1	PIV measurements of flow through a model porous medium with varying boundary conditions. Journal of Fluid Mechanics, 2009, 629, 343-374.	1.4	54
2	On the unsteady characteristics of turbulent separations over a forward-facing backward-facing step. Journal of Fluid Mechanics, 2019, 863, 994-1030.	1.4	52
3	Velocity measurements of a shear flow penetrating a porous medium. Journal of Fluid Mechanics, 2003, 493, 319-343.	1.4	46
4	PIV Study of Separated and Reattached Open Channel Flow Over Surface Mounted Blocks. Journal of Fluids Engineering, Transactions of the ASME, 2008, 130, .	0.8	38
5	PIV Measurements in the Near and Intermediate Field Regions of Jets Issuing from Eight Different Nozzle Geometries. Flow, Turbulence and Combustion, 2017, 99, 329-351.	1.4	34
6	The Effects of Surface Roughness on the Mean Velocity Profile in a Turbulent Boundary Layer. Journal of Fluids Engineering, Transactions of the ASME, 2002, 124, 664-670.	0.8	33
7	Flow characteristics within the recirculation region of three-dimensional turbulent offset jet. Journal of Hydraulic Research/De Recherches Hydrauliques, 2015, 53, 230-242.	0.7	31
8	Effects of upstream roughness and Reynolds number on separated and reattached turbulent flow. Journal of Turbulence, 2015, 16, 872-899.	0.5	30
9	Highly-disturbed turbulent flow in a square channel with V-shaped ribs on one wall. International Journal of Heat and Fluid Flow, 2015, 56, 182-197.	1.1	29
10	Characteristics of Shallow Turbulent Near Wakes at Low Reynolds Numbers. Journal of Fluids Engineering, Transactions of the ASME, 2000, 122, 302-308.	0.8	28
11	Open Channel Boundary Layer Relaxation Behind a Forward Facing Step at Low Reynolds Numbers. Journal of Fluids Engineering, Transactions of the ASME, 2001, 123, 539-544.	0.8	28
12	Large-eddy simulation of turbulent flow and structures in a square duct roughened with perpendicular and V-shaped ribs. Physics of Fluids, 2017, 29, .	1.6	28
13	Spatio-temporal dynamics of flow separation induced by a forward-facing step submerged in a thick turbulent boundary layer. Journal of Fluid Mechanics, 2020, 892, .	1.4	26
14	Roughness Effects on Turbulent Flow Downstream of a Backward Facing Step. Flow, Turbulence and Combustion, 2015, 94, 125-153.	1.4	24
15	Flows over surface-mounted bluff bodies with different spanwise widths submerged in a deep turbulent boundary layer. Journal of Fluid Mechanics, 2019, 877, 717-758.	1.4	24
16	Experimental Investigation of Nozzle Spacing Effects on Characteristics of Round Twin Free Jets. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	0.8	24
17	Statistical Properties of Round, Square, and Elliptic Jets at Low and Moderate Reynolds Numbers. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	0.8	23
18	Experimental study of turbulent flow near model trashracks. Journal of Hydraulic Research/De Recherches Hydrauliques, 2009, 47, 275-280.	0.7	22

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19	Open-channel turbulent flow through bar racks. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 630-643.	0.7	22
20	Time-resolved PIV measurement of influence of upstream roughness on separated and reattached turbulent flows over a forward-facing step. <i>AIP Advances</i> , 2018, 8, .	0.6	22
21	Roughness Effects on the Mixing Properties in Open Channel Turbulent Boundary Layers. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2004, 126, 1025-1032.	0.8	20
22	Particle image velocimetry study of turbulent flow over transverse square ribs in an asymmetric diffuser. <i>Physics of Fluids</i> , 2007, 19, 065106.	1.6	20
23	Statistical properties and structural analysis of three-dimensional twin round jets due to variation in Reynolds number. <i>International Journal of Heat and Fluid Flow</i> , 2019, 76, 215-230.	1.1	20
24	Time-resolved wake dynamics of finite wall-mounted circular cylinders submerged in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2021, 917, .	1.4	20
25	Favorable pressure gradient turbulent flow over straight and inclined ribs on both channel walls. <i>Physics of Fluids</i> , 2008, 20, .	1.6	19
26	Characteristics of flow past elongated bluff bodies with underbody gaps due to varying inflow turbulence. <i>Physics of Fluids</i> , 2021, 33, .	1.6	19
27	Proper Orthogonal Decomposition Analysis of Separated and Reattached Pressure Gradient Flows. <i>AIAA Journal</i> , 2009, 47, 2616-2631.	1.5	17
28	Upstream roughness and Reynolds number effects on turbulent flow structure over forward facing step. <i>International Journal of Heat and Fluid Flow</i> , 2017, 66, 226-242.	1.1	17
29	On the Development of Incompressible Round and Equilateral Triangular Jets Due to Reynolds Number Variation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018, 140, .	0.8	17
30	Experimental study of the flow structures of 3D turbulent offset jets. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 773-786.	0.7	16
31	Experimental and numerical investigation of developing turbulent flow over a wavy wall in a horizontal channel. <i>European Journal of Mechanics, B/Fluids</i> , 2018, 68, 128-143.	1.2	16
32	Turbulent Flow Around Rectangular Cylinders With Different Streamwise Aspect Ratios. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2022, 144, .	0.8	16
33	Effects of sedimenting particles on the turbulence structure in a horizontal channel flow. <i>Physics of Fluids</i> , 2015, 27, .	1.6	15
34	Effect of Nozzle Spacing on Turbulent Interaction of Low-Aspect-Ratio Twin Rectangular Jets. <i>Flow, Turbulence and Combustion</i> , 2019, 103, 323-344.	1.4	15
35	Flow Relaxation Past a Transverse Square Rib in Pressure Gradients. <i>AIAA Journal</i> , 2008, 46, 1849-1863.	1.5	12
36	Effects of Nozzle Geometry on Turbulent Characteristics and Structure of Surface Attaching Jets. <i>Flow, Turbulence and Combustion</i> , 2019, 103, 797-825.	1.4	12

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37	Streamwise Aspect Ratio Effects on Turbulent Flow Separations Induced by Forward-Facing Steps. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021, 143, .	0.8	12
38	Effects of offset height on the turbulent characteristics of a surface attaching jet. <i>International Journal of Heat and Fluid Flow</i> , 2018, 71, 305-321.	1.1	10
39	Submerged turbulent twin jets interacting with a free surface and a solid wall. <i>International Journal of Heat and Fluid Flow</i> , 2018, 71, 27-38.	1.1	9
40	The Effects of Upstream Wall Roughness on the Spatio-Temporal Characteristics of Flow Separations Induced by a Forward-Facing Step. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021, 143, .	0.8	9
41	PIV investigation of flow over a transverse square rib in pressure gradients. <i>Journal of Turbulence</i> , 2009, 10, N39.	0.5	8
42	Roughness effect on turbulent flow structure beneath a simulated ice jam. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2019, 57, 238-249.	0.7	8
43	Tracking the flapping motion of flow separation using pointwise measurement. <i>Physics of Fluids</i> , 2020, 32, 035106.	1.6	8
44	Characteristics of a horizontal square jet interacting with the free surface. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	8
45	Skin Friction Correlation in Open Channel Boundary Layers. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2001, 123, 953-956.	0.8	8
46	Particle image velocimetry measurements in curved turbulent jets produced from a slot diffuser. <i>Experimental Thermal and Fluid Science</i> , 2013, 49, 169-184.	1.5	7
47	Hydraulic and turbulent flow characteristics beneath a simulated partial ice-cover. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021, 59, 392-403.	0.7	7
48	Structure of turbulent flow over 90° and 45° transverse ribs. <i>Journal of Turbulence</i> , 2009, 10, N20.	0.5	6
49	Flow characteristics of an offset jet over a surface mounted square rib. <i>Journal of Turbulence</i> , 2016, 17, 727-757.	0.5	6
50	Free surface effects on the statistical properties of a submerged rectangular jet. <i>Physics of Fluids</i> , 2017, 29, 025101.	1.6	6
51	Flow Characteristics of Submerged Twin Jets Interacting with Free Surface. <i>AIAA Journal</i> , 2017, 55, 3622-3625.	1.5	6
52	Reynolds number effect on flow characteristics of surface single and twin jets. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2019, 57, 808-821.	0.7	6
53	Direct numerical simulation of turbulent flow separation induced by a forward-facing step. <i>International Journal of Heat and Fluid Flow</i> , 2021, 87, 108753.	1.1	6
54	Particle Image Velocimetry Measurements of Turbulent Jets Issuing From Twin Elliptic Nozzles With Various Orientations. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021, 143, .	0.8	6

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55	Turbulent Properties of Triple Elliptic Free Jets With Various Nozzle Orientation. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	5
56	Surface roughness effects on separated and reattached turbulent flow in open channel. Journal of Hydraulic Research/De Recherches Hydrauliques, 2015, 53, 302-316.	0.7	4
57	Acoustic Doppler velocimeter measurements of a submerged three-dimensional offset jet flow over rough surfaces. Journal of Hydraulic Research/De Recherches Hydrauliques, 2017, 55, 40-49.	0.7	4
58	The Wake Dynamics Behind a Near-Wall Square Cylinder. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	0.8	4
59	PIV Investigation of Reynolds Number Effects on a Closed Channel Flow Over a Smooth Forward Facing Step. , 2014, , .		3
60	Comparison of Turbulent Jets Issuing From Various Sharp Contoured Nozzles. , 2017, , .		3
61	Experimental and numerical investigation of three-dimensional open channel with simulated partial ice-covers. Journal of Hydraulic Research/De Recherches Hydrauliques, 0, , 1-12.	0.7	3
62	Comparative Evaluation of Single/Twin Round and Elliptic Jets Using Particle Image Velocimetry. , 2018, , .		2
63	Effect of discharge and upstream jam angle on the flow distribution beneath a simulated ice jam. Canadian Journal of Civil Engineering, 2019, 46, 413-423.	0.7	2
64	Three-dimensional structural characteristics of flow separation induced by a forward-facing step in a turbulent channel flow. Journal of Fluid Mechanics, 2021, 919, .	1.4	2
65	Low Reynolds Number Open Channel Flows Over a Backward Facing Step. , 2012, , .		1
66	Experimental Study of Reynolds Number Effects on Three-Dimensional Offset Jets. , 2014, , .		1
67	Experimental-Numerical Analysis of Turbulent Incompressible Isothermal Jets. , 2017, , .		1
68	Offset height effect on turbulent characteristics of twin surface jets. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 910-919.	0.7	1
69	Modelling of Laminar Canonical Flows: Revisit. , 2012, , .		0
70	PIV Investigation of Separated and Reattached Turbulent Flows Over Ribs of Various Aspect Ratio. , 2014, , .		0
71	Effects of Gap Ratio on Flow Past a Square Cylinder. , 2014, , .		0
72	Low Reynolds Number Effect on Open Channel Flow Over a Rib. , 2014, , .		0

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73	An Experimental Study of Surface-Mounted Bluff Bodies Immersed in Deep Turbulent Boundary Layers. , 2018, , .		0
74	Nozzle Orientation Effects on the Turbulent Structure of Submerged Twin Jets. , 2018, , .		0
75	Effects of Offset Height on the Turbulent Characteristics of Rectangular Twin Jets. , 2018, , .		0
76	Influence of Leading Edge and Spacing on the Near Wake of Cylinder Pairs. , 2009, , .		0
77	Three-Dimensional Laminar Wall Jet Flows. , 2009, , .		0
78	Experimental Study of Turbulent Flow in Two-Dimensional Porous Media. , 2009, , .		0
79	Experimental Study of Three-Dimensional Laminar Wall Jets of Non-Newtonian Fluid. , 2009, , .		0
80	Roughness Effect Downstream of Flow Over a Forward Facing Step. , 2014, , .		0