

Mark F Tachie

List of Publications by Year in descending order

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42
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346
citing authors

#	ARTICLE	IF	CITATIONS
1	Turbulent Flow Around Rectangular Cylinders With Different Streamwise Aspect Ratios. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	1.5	16
2	The Wake Dynamics Behind a Near-Wall Square Cylinder. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	1.5	4
3	Hydraulic and turbulent flow characteristics beneath a simulated partial ice-cover. Journal of Hydraulic Research/De Recherches Hydrauliques, 2021, 59, 392-403.	1.7	7
4	Direct numerical simulation of turbulent flow separation induced by a forward-facing step. International Journal of Heat and Fluid Flow, 2021, 87, 108753.	2.4	6
5	The Effects of Upstream Wall Roughness on the Spatio-Temporal Characteristics of Flow Separations Induced by a Forward-Facing Step. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	1.5	9
6	Time-resolved wake dynamics of finite wall-mounted circular cylinders submerged in a turbulent boundary layer. Journal of Fluid Mechanics, 2021, 917, .	3.4	20
7	Three-dimensional structural characteristics of flow separation induced by a forward-facing step in a turbulent channel flow. Journal of Fluid Mechanics, 2021, 919, .	3.4	2
8	Streamwise Aspect Ratio Effects on Turbulent Flow Separations Induced by Forward-Backward-Facing Steps. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	1.5	12
9	Offset height effect on turbulent characteristics of twin surface jets. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 910-919.	1.7	1
10	Tracking the flapping motion of flow separation using pointwise measurement. Physics of Fluids, 2020, 32, 035106.	4.0	8
11	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, .	3.4	26
12	Roughness effect on turbulent flow structure beneath a simulated ice jam. Journal of Hydraulic Research/De Recherches Hydrauliques, 2019, 57, 238-249.	1.7	8
13	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.	3.4	24
14	On the unsteady characteristics of turbulent separations over a forward-backward-facing step. Journal of Fluid Mechanics, 2019, 863, 994-1030.	3.4	52
15	Reynolds number effect on flow characteristics of surface single and twin jets. Journal of Hydraulic Research/De Recherches Hydrauliques, 2019, 57, 808-821.	1.7	6
16	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.	1.3	2
17	Time-resolved PIV measurement of influence of upstream roughness on separated and reattached turbulent flows over a forward-facing step. AIP Advances, 2018, 8, .	1.3	22
18	Nozzle Orientation Effects on the Turbulent Structure of Submerged Twin Jets. , 2018, , .		0

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19	Flow Characteristics of Submerged Twin Jets Interacting with Free Surface. AIAA Journal, 2017, 55, 3622-3625.	2.6	6
20	Large-eddy simulation of turbulent flow and structures in a square duct roughened with perpendicular and V-shaped ribs. Physics of Fluids, 2017, 29, .	4.0	28
21	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.	1.7	4
22	Flow characteristics within the recirculation region of three-dimensional turbulent offset jet. Journal of Hydraulic Research/De Recherches Hydrauliques, 2015, 53, 230-242.	1.7	31
23	Effects of sedimenting particles on the turbulence structure in a horizontal channel flow. Physics of Fluids, 2015, 27, .	4.0	15
24	Surface roughness effects on separated and reattached turbulent flow in open channel. Journal of Hydraulic Research/De Recherches Hydrauliques, 2015, 53, 302-316.	1.7	4
25	Experimental study of the flow structures of 3D turbulent offset jets. Journal of Hydraulic Research/De Recherches Hydrauliques, 2015, 53, 773-786.	1.7	16
26	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.	2.4	29
27	Open-channel turbulent flow through bar racks. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 630-643.	1.7	22
28	Particle image velocimetry measurements in curved turbulent jets produced from a slot diffuser. Experimental Thermal and Fluid Science, 2013, 49, 169-184.	2.7	7
29	Surface roughness effects on the turbulence statistics in a low Reynolds number channel flow. Journal of Turbulence, 2013, 14, 121-146.	1.4	10
30	Structure of turbulent flow over 90° and 45° transverse ribs. Journal of Turbulence, 2009, 10, N20.	1.4	6
31	Proper Orthogonal Decomposition Analysis of Separated and Reattached Pressure Gradient Flows. AIAA Journal, 2009, 47, 2616-2631.	2.6	17
32	Particle Image Velocimetry Study of Flow near Trashrack Models. Journal of Hydraulic Engineering, 2009, 135, 671-684.	1.5	21
33	PIV investigation of flow over a transverse square rib in pressure gradients. Journal of Turbulence, 2009, 10, N39.	1.4	8
34	PIV measurements of flow through a model porous medium with varying boundary conditions. Journal of Fluid Mechanics, 2009, 629, 343-374.	3.4	54
35	PIV Study of Separated and Reattached Open Channel Flow Over Surface Mounted Blocks. Journal of Fluids Engineering, Transactions of the ASME, 2008, 130, .	1.5	38
36	Flow Relaxation Past a Transverse Square Rib in Pressure Gradients. AIAA Journal, 2008, 46, 1849-1863.	2.6	12

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37	Favorable pressure gradient turbulent flow over straight and inclined ribs on both channel walls. <i>Physics of Fluids</i> , 2008, 20, .	4.0	19
38	Particle image velocimetry study of turbulent flow over transverse square ribs in an asymmetric diffuser. <i>Physics of Fluids</i> , 2007, 19, 065106.	4.0	20
39	Velocity measurements of a shear flow penetrating a porous medium. <i>Journal of Fluid Mechanics</i> , 2003, 493, 319-343.	3.4	46
40	Open Channel Boundary Layer Relaxation Behind a Forward Facing Step at Low Reynolds Numbers. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2001, 123, 539-544.	1.5	28
41	Skin Friction Correlation in Open Channel Boundary Layers. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2001, 123, 953-956.	1.5	8
42	Experimental and numerical investigation of three-dimensional open channel with simulated partial ice-covers. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 0, , 1-12.	1.7	3