

# Mark F Tachie

## List of Publications by Year in descending order

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42  
papers

677  
citations

471509

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610901

24  
g-index

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all docs

42  
docs citations

42  
times ranked

346  
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.                                     | 3.4 | 54        |
| 2  | On the unsteady characteristics of turbulent separations over a forward-facing backward-facing step. Journal of Fluid Mechanics, 2019, 863, 994-1030.                        | 3.4 | 52        |
| 3  | Velocity measurements of a shear flow penetrating a porous medium. Journal of Fluid Mechanics, 2003, 493, 319-343.   | 3.4 | 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, .                   | 1.5 | 38        |
| 5  | 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        |
| 6  | 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        |
| 7  | 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.    | 1.5 | 28        |
| 8  | 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        |
| 9  | 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        |
| 10 | 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        |
| 11 | Open-channel turbulent flow through bar racks. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 630-643.  | 1.7 | 22        |
| 12 | 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        |
| 13 | Particle Image Velocimetry Study of Flow near Trashrack Models. Journal of Hydraulic Engineering, 2009, 135, 671-684.  | 1.5 | 21        |
| 14 | Particle image velocimetry study of turbulent flow over transverse square ribs in an asymmetric diffuser. Physics of Fluids, 2007, 19, 065106.                               | 4.0 | 20        |
| 15 | 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        |
| 16 | Favorable pressure gradient turbulent flow over straight and inclined ribs on both channel walls. Physics of Fluids, 2008, 20, .   | 4.0 | 19        |
| 17 | Proper Orthogonal Decomposition Analysis of Separated and Reattached Pressure Gradient Flows. AIAA Journal, 2009, 47, 2616-2631.   | 2.6 | 17        |
| 18 | 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        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Turbulent Flow Around Rectangular Cylinders With Different Streamwise Aspect Ratios. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .  | 1.5 | 16        |
| 20 | Effects of sedimenting particles on the turbulence structure in a horizontal channel flow. Physics of Fluids, 2015, 27, .   | 4.0 | 15        |
| 21 | Flow Relaxation Past a Transverse Square Rib in Pressure Gradients. AIAA Journal, 2008, 46, 1849-1863.  | 2.6 | 12        |
| 22 | 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        |
| 23 | Surface roughness effects on the turbulence statistics in a low Reynolds number channel flow. Journal of Turbulence, 2013, 14, 121-146.   | 1.4 | 10        |
| 24 | 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         |
| 25 | PIV investigation of flow over a transverse square rib in pressure gradients. Journal of Turbulence, 2009, 10, N39.   | 1.4 | 8         |
| 26 | 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         |
| 27 | Tracking the flapping motion of flow separation using pointwise measurement. Physics of Fluids, 2020, 32, 035106.   | 4.0 | 8         |
| 28 | Skin Friction Correlation in Open Channel Boundary Layers. Journal of Fluids Engineering, Transactions of the ASME, 2001, 123, 953-956.   | 1.5 | 8         |
| 29 | 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         |
| 30 | 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         |
| 31 | Structure of turbulent flow over 90° and 45° transverse ribs. Journal of Turbulence, 2009, 10, N20.   | 1.4 | 6         |
| 32 | Flow Characteristics of Submerged Twin Jets Interacting with Free Surface. AIAA Journal, 2017, 55, 3622-3625.   | 2.6 | 6         |
| 33 | 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         |
| 34 | 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         |
| 35 | 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         |
| 36 | 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         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | The Wake Dynamics Behind a Near-Wall Square Cylinder. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .  | 1.5 | 4         |
| 38 | Experimental and numerical investigation of three-dimensional open channel with simulated partial ice-covers. Journal of Hydraulic Research/De Recherches Hydrauliques, 0, , 1-12. | 1.7 | 3         |
| 39 | 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         |
| 40 | 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         |
| 41 | Offset height effect on turbulent characteristics of twin surface jets. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 910-919.                               | 1.7 | 1         |
| 42 | Nozzle Orientation Effects on the Turbulent Structure of Submerged Twin Jets. , 2018, , .  |     | 0         |