

Cheng Chin

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

890
citations

430874

18
h-index

526287

27
g-index

59
all docs

59
docs citations

59
times ranked

621
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The influence of pipe length on turbulence statistics computed from direct numerical simulation data. <i>Physics of Fluids</i> , 2010, 22, . | 4.0 | 101 |
| 2 | Reynolds number effects in DNS of pipe flow and comparison with channels and boundary layers. <i>International Journal of Heat and Fluid Flow</i> , 2014, 45, 33-40. | 2.4 | 68 |
| 3 | Reynolds-number-dependent turbulent inertia and onset of log region in pipe flows. <i>Journal of Fluid Mechanics</i> , 2014, 757, 747-769. | 3.4 | 53 |
| 4 | Use of direct numerical simulation (DNS) data to investigate spatial resolution issues in measurements of wall-bounded turbulence. <i>Measurement Science and Technology</i> , 2009, 20, 115401. | 2.6 | 47 |
| 5 | Large amplitude vibrations of imperfect porous-hyperelastic beams via a modified strain energy. <i>Journal of Sound and Vibration</i> , 2021, 513, 116416. | 3.9 | 35 |
| 6 | Investigation of the Flow Structures in Supersonic Free and Impinging Jet Flows. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2013, 135, . | 1.5 | 34 |
| 7 | Endothelial shear stress 5 years after implantation of a coronary bioresorbable scaffold. <i>European Heart Journal</i> , 2018, 39, 1602-1609. | 2.2 | 33 |
| 8 | Experimental characteristics and coupled nonlinear forced vibrations of axially travelling hyperelastic beams. <i>Thin-Walled Structures</i> , 2022, 170, 108526. | 5.3 | 31 |
| 9 | Spatial resolution correction for hot-wire anemometry in wall turbulence. <i>Experiments in Fluids</i> , 2011, 50, 1443-1453. | 2.4 | 28 |
| 10 | Extreme wall shear stress events in turbulent pipe flows: spatial characteristics of coherent motions. <i>Journal of Fluid Mechanics</i> , 2020, 904, . | 3.4 | 27 |
| 11 | Effect of shape of the stenosis on the hemodynamics of a stenosed coronary artery. <i>Physics of Fluids</i> , 2021, 33, . | 4.0 | 24 |
| 12 | Interscale transport mechanisms in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2021, 921, . | 3.4 | 23 |
| 13 | The influence of pipe length on thermal statistics computed from DNS of turbulent heat transfer. <i>International Journal of Heat and Fluid Flow</i> , 2011, 32, 1083-1097. | 2.4 | 22 |
| 14 | Emergence of the four layer dynamical regime in turbulent pipe flow. <i>Physics of Fluids</i> , 2012, 24, 045107. | 4.0 | 22 |
| 15 | Transitional turbulent flow in a stenosed coronary artery with a physiological pulsatile flow. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3347. | 2.1 | 22 |
| 16 | Reynolds number dependence of large-scale friction control in turbulent channel flow. <i>Physical Review Fluids</i> , 2016, 1, . | 2.5 | 22 |
| 17 | On Large-Scale Friction Control in Turbulent Wall Flow in Low Reynolds Number Channels. <i>Flow, Turbulence and Combustion</i> , 2016, 97, 811-827. | 2.6 | 21 |
| 18 | An experimental model for pressure drop evaluation in a stenosed coronary artery. <i>Physics of Fluids</i> , 2020, 32, . | 4.0 | 20 |

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|----|--|-----|-----------|
| 19 | Turbulent pipe flow at $Re_{\tau}^+ \approx 1000$: A comparison of wall-resolved large-eddy simulation, direct numerical simulation and hot-wire experiment. <i>Computers and Fluids</i> , 2015, 122, 26-33. | 2.5 | 17 |
| 20 | Numerical and experimental investigations of the flow-pressure relation in multiple sequential stenoses coronary artery. <i>International Journal of Cardiovascular Imaging</i> , 2017, 33, 1083-1088. | 1.5 | 15 |
| 21 | Simulation of a Large-Eddy-Break-up Device (LEBU) in a Moderate Reynolds Number Turbulent Boundary Layer. <i>Flow, Turbulence and Combustion</i> , 2017, 98, 445-460. | 2.6 | 15 |
| 22 | Backflow events under the effect of secondary flow of Prandtl's first kind. <i>Physical Review Fluids</i> , 2020, 5, . | 2.5 | 14 |
| 23 | Nonlinear continuum mechanics of thick hyperelastic sandwich beams using various shear deformable beam theories. <i>Continuum Mechanics and Thermodynamics</i> , 2022, 34, 781-827. | 2.2 | 14 |
| 24 | Transient dynamics of accelerating turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , 2021, 917, . | 3.4 | 13 |
| 25 | Conditionally averaged flow topology about a critical point pair in the skin friction field of pipe flows using direct numerical simulations. <i>Physical Review Fluids</i> , 2018, 3, . | 2.5 | 13 |
| 26 | Large eddy simulation and Reynolds-averaged Navier-Stokes calculations of supersonic impinging jets at varying nozzle-to-wall distances and impinging angles. <i>International Journal of Heat and Fluid Flow</i> , 2014, 47, 31-41. | 2.4 | 12 |
| 27 | Advances in three-dimensional coronary imaging and computational fluid dynamics. <i>Coronary Artery Disease</i> , 2015, 26, e43-e54. | 0.7 | 10 |
| 28 | A new equivalent sand grain roughness relation for two-dimensional rough wall turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2022, 940, . | 3.4 | 10 |
| 29 | Flow regimes within horizontal particle-laden pipe flows. <i>International Journal of Multiphase Flow</i> , 2021, 143, 103748. | 3.4 | 9 |
| 30 | Attenuation of turbulence by the passive control of sweep events in a turbulent boundary layer using micro-cavities. <i>Physics of Fluids</i> , 2017, 29, . | 4.0 | 8 |
| 31 | Mechanism of sweep event attenuation using micro-cavities in a turbulent boundary layer. <i>Physics of Fluids</i> , 2018, 30, . | 4.0 | 8 |
| 32 | A direct comparison of pulsatile and non-pulsatile rough-wall turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , 2020, 895, . | 3.4 | 8 |
| 33 | A Numerical Study of the Effects of the Velocity Ratio on Coflow Jet Characteristics. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020, 142, . | 1.5 | 8 |
| 34 | Drag Penalty Causing from the Roughness of Recently Cleaned and Painted Ship Hull Using RANS CFD. <i>CFD Letters</i> , 2020, 12, 78-88. | 0.8 | 8 |
| 35 | The influence of the coefficient of restitution on flow regimes within horizontal particle-laden pipe flows. <i>Physics of Fluids</i> , 2021, 33, . | 4.0 | 8 |
| 36 | Precursors of backflow events and their relationship with the near-wall self-sustaining process. <i>Journal of Fluid Mechanics</i> , 2022, 933, . | 3.4 | 8 |

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|----|--|-----|-----------|
| 37 | Influence of a Large-Eddy-Breakup-Device on the Turbulent Interface of Boundary Layers. <i>Flow, Turbulence and Combustion</i> , 2017, 99, 823-835. | 2.6 | 6 |
| 38 | Effect of artery curvature on the coronary fractional flow reserve. <i>Physics of Fluids</i> , 2021, 33, . | 4.0 | 6 |
| 39 | A Review on the Effect of Temporal Geometric Variations of the Coronary Arteries on the Wall Shear Stress and Pressure Drop. <i>Journal of Biomechanical Engineering</i> , 2022, 144, . | 1.3 | 6 |
| 40 | The skin-friction coefficient of a turbulent boundary layer modified by a large-eddy break-up device. <i>Physics of Fluids</i> , 2021, 33, . | 4.0 | 5 |
| 41 | Outer turbulent boundary layer similarities for different 2D surface roughnesses at matched Reynolds number. <i>International Journal of Heat and Fluid Flow</i> , 2022, 94, 108940. | 2.4 | 5 |
| 42 | Investigation of the influence of miniature vortex generators on the large-scale motions of a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2022, 932, . | 3.4 | 4 |
| 43 | Large-scale and small-scale contribution to the skin friction reduction in a modified turbulent boundary layer by a large-eddy break-up device. <i>Physical Review Fluids</i> , 2022, 7, . | 2.5 | 4 |
| 44 | Extension of the 1D Unsteady Friction Model for Rapidly Accelerating and Decelerating Turbulent Pipe Flows. <i>Journal of Hydraulic Engineering</i> , 2022, 148, . | 1.5 | 4 |
| 45 | Numerical study of geometric morphing wings of the 1303 UCAV. <i>Aeronautical Journal</i> , 2021, 125, 1192-1208. | 1.6 | 3 |
| 46 | An investigation of channel flow with a smooth air-water interface. <i>Experiments in Fluids</i> , 2015, 56, 1. | 2.4 | 2 |
| 47 | A Theoretical Review of Rotating Detonation Engines. , 0, , . | | 2 |
| 48 | A novel technique towards investigating wall shear stress within the stent struts using particle image velocimetry. <i>Experiments in Fluids</i> , 2021, 62, 1. | 2.4 | 2 |
| 49 | Direct numerical simulation of low Reynolds number turbulent swirling pipe flows. <i>Physical Review Fluids</i> , 2019, 4, . | 2.5 | 2 |
| 50 | Vorticity Transport in Turbulent Pipe Flow. , 2020, , . | | 2 |
| 51 | Decomposition of the Reynolds shear stress in a turbulent boundary layer modified by miniature vortex generators. <i>Physical Review Fluids</i> , 2022, 7, . | 2.5 | 2 |
| 52 | Performance Analysis of Novel Blade Design of Vertical Axis Wind Turbine. , 2019, , . | | 1 |
| 53 | Swirling turbulent pipe flows: Inertial region and velocity-vorticity correlations. <i>International Journal of Heat and Fluid Flow</i> , 2021, 87, 108767. | 2.4 | 1 |
| 54 | Dynamics of semi- and neutrally-buoyant particles in thermally stratified turbulent channel flow. <i>International Journal of Multiphase Flow</i> , 2021, 139, 103595. | 3.4 | 1 |

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|----|---|----|-----------|
| 55 | Numerical simulation of two-stages contra-rotating vertical axis wind turbine. , 2020, , . | | 1 |
| 56 | Turbulent Boundary Layer over various 2D Uniform Distributed Roughness Elements. , 2020, , . | | 0 |
| 57 | Hemodynamics of stented coronary arteries: Experimental and numerical investigations. , 2020, , . | | 0 |
| 58 | A numerical study of gravity effects on horizontal particle-laden pipe flows. , 2020, , . | | 0 |
| 59 | Hydrodynamic simulation of submarine far field flow. , 2020, , . | | 0 |