

Yingzheng Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118
papers

1,355
citations

21
h-index

29
g-index

153
ext. papers

1,867
ext. citations

3.6
avg, IF

5.69
L-index

#	Paper	IF	Citations
118	Influence of tandem fluttering membranes on flow dynamics and heat transfer in turbulent channel flow. <i>Physics of Fluids</i> , 2022 , 34, 015118	4.4	
117	Dual-FPGA-PIV measurements of unsteady flow dynamics resonated via the duct acoustic mode with half-wavelength arranged side-branches. <i>Experiments in Fluids</i> , 2022 , 63, 1	2.5	
116	A data assimilation model for wall pressure-driven mean flow reconstruction. <i>Physics of Fluids</i> , 2022 , 34, 015101	4.4	4
115	Transonic vane film cooling with crescent-shaped craters using an endoscopic pressure-sensitive paint technique. <i>Applied Thermal Engineering</i> , 2022 , 205, 118081	5.8	0
114	Fast PSP measurement of three-dimensional low-frequency unsteadiness in sidewall-confined shock wave/turbulent boundary layer interaction. <i>Experimental Thermal and Fluid Science</i> , 2022 , 134, 110599	3	
113	Spatiotemporal distributions of sweeping jet film cooling with a compact geometry. <i>Physics of Fluids</i> , 2022 , 34, 025113	4.4	1
112	Concentration effect on oxygen quenching behavior of EuxY0.08-xZr0.92O1.96 and DyxY0.08-xZr0.92O1.96 phosphors. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 428	3.8	1
111	Hydrodynamic benefits of pectoral fins in a self-propelled flexible plate. <i>Physics of Fluids</i> , 2022 , 34, 021909	4.4	3
110	Flow enhancement of tomographic particle image velocimetry measurements using sequential data assimilation. <i>Physics of Fluids</i> , 2022 , 34, 035101	4.4	1
109	Study of internal time-resolved flow dynamics of a subsonic fluidic oscillator using fast pressure sensitive paint. <i>Experiments in Fluids</i> , 2022 , 63, 1	2.5	1
108	Resolving dynamic features of kilohertz pressure fluctuations using fast-responding pressure-sensitive paint: measurement of inclined jet impingement. <i>Experiments in Fluids</i> , 2022 , 63, 1	2.5	0
107	Improved Turbine Vane Endwall Film Cooling by Using Sand-Dune-Inspired Design. <i>Journal of Thermal Science</i> , 2022 , 31, 958-973	1.9	
106	Active Flow Control in an S-Shaped Duct at Mach 0.4 Using Sweeping Jet Actuators. <i>Experimental Thermal and Fluid Science</i> , 2022 , 110699	3	1
105	Phosphorescence-based Temperature and Tactile Multi-functional Flexible Sensing Skin. <i>Sensors and Actuators A: Physical</i> , 2021 , 332, 113205	3.9	
104	Simultaneous measurements of time-resolved velocity and concentration fields behind a sand dune-inspired jet in crossflow. <i>Physics of Fluids</i> , 2021 , 33, 115101	4.4	1
103	Experimental Study of Oscillating Freestream Effect on the Spatiotemporal Distributions of Leading-Edge Film Cooling. <i>Journal of Turbomachinery</i> , 2021 , 143,	1.8	3
102	Jet sweeping angle control by fluidic oscillators with master-slave designs. <i>Chinese Journal of Aeronautics</i> , 2021 , 34, 145-162	3.7	1

101	Unsteady analysis of turbulent flow and heat transfer behind a wall-proximity square rib using dynamic delayed detached-eddy simulation. <i>Physics of Fluids</i> , 2021 , 33, 055104	4.4	9
100	Data assimilation for turbulent mean flow and scalar fields with anisotropic formulation. <i>Experiments in Fluids</i> , 2021 , 62, 1	2.5	2
99	Dynamics of the jet flow issued from a lobed Nozzle: Tomographic particle image velocimetry measurements. <i>International Journal of Heat and Fluid Flow</i> , 2021 , 89, 108795	2.4	2
98	Fluid-structure interaction of a flexible membrane under movement-induced excitation (MIE), extraneously induced excitation (EIE), and coupled MIE/EIE. <i>Physics of Fluids</i> , 2021 , 33, 065101	4.4	3
97	Unsteady flow structures behind a shark denticle replica on the wall: Time-resolved particle image velocimetry measurements. <i>Physics of Fluids</i> , 2021 , 33, 075109	4.4	0
96	Thermal stability improvement of sprayable fast-responding pressure-sensitive paint for measurement above 100 °C. <i>Chinese Journal of Aeronautics</i> , 2021 , 34, 320-326	3.7	1
95	Deep neural network-based strategy for optimal sensor placement in data assimilation of turbulent flow. <i>Physics of Fluids</i> , 2021 , 33, 025119	4.4	12
94	Flow structures of a precessing jet in an axisymmetric chamber. <i>Journal of Visualization</i> , 2021 , 24, 501-515	4.4	2
93	Simultaneous 3D surface profile and pressure measurement using phase-shift profilometry and pressure-sensitive paint. <i>Review of Scientific Instruments</i> , 2021 , 92, 035107	1.7	3
92	Hydrodynamic benefits of protruding eyes and mouth in a self-propelled flexible stingray. <i>Physics of Fluids</i> , 2021 , 33, 081915	4.4	1
91	Conditional generative adversarial network driven approach for direct prediction of thermal stress based on two-phase material SEM images. <i>Ceramics International</i> , 2021 , 47, 34115-34115	5.1	0
90	Flow prediction using dynamic mode decomposition with time-delay embedding based on local measurement. <i>Physics of Fluids</i> , 2021 , 33, 095109	4.4	4
89	Temporally resolved reconstruction of sweeping jet flow field based on sub-Nyquist-rate PIV data. <i>Measurement Science and Technology</i> , 2021 , 32, 125303	2	0
88	Drag reduction by a flexible afterbody. <i>Physics of Fluids</i> , 2021 , 33, 122009	4.4	2
87	Jet impingement using an adjustable spreading-angle sweeping jet. <i>Aerospace Science and Technology</i> , 2020 , 105, 105956	4.9	9
86	Interaction between separation bubble and impinging vortices over a finite blunt plate. <i>International Journal of Heat and Fluid Flow</i> , 2020 , 82, 108534	2.4	0
85	Unsteady behaviors of separated flow over a finite blunt plate at different inclination angles. <i>Physics of Fluids</i> , 2020 , 32, 035111	4.4	5
84	Acoustics-driven vortex dynamics in channel branches with round intersections: Flow mode transition and three-dimensionality. <i>Physics of Fluids</i> , 2020 , 32, 025101	4.4	8

83	Influence of diametral acoustic mode on cavity flow dynamics: Zonal large eddy simulation and proper orthogonal decomposition. <i>Physics of Fluids</i> , 2020 , 32, 075103	4.4	10
82	Time-resolved reconstruction of turbulent flows using linear stochastic estimation and sequential data assimilation. <i>Physics of Fluids</i> , 2020 , 32, 075106	4.4	6
81	Instantaneous pressure determination from unsteady velocity fields using adjoint-based sequential data assimilation. <i>Physics of Fluids</i> , 2020 , 32, 035101	4.4	9
80	Self-sustained oscillation of the flow in a double-cavity channel: a time-resolved PIV measurement. <i>Journal of Visualization</i> , 2020 , 23, 245-257	1.6	4
79	Dynamics of compact vortex rings generated by axial swirlers at early stage. <i>Physics of Fluids</i> , 2020 , 32, 045104	4.4	3
78	Experimental study on hypersonic shockBody interaction between bodies in close proximity using translucent fast pressure- and temperature-sensitive paints. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	14
77	Flow Structures and Unsteady Behaviors of Film Cooling from Discrete Holes Fed by Internal Crossflow. <i>Journal of Turbomachinery</i> , 2020 , 142,	1.8	6
76	Phase-locking particle image velocimetry measurements of acoustic-driven flow interactions between tandem deep cavities. <i>Physics of Fluids</i> , 2020 , 32, 125115	4.4	3
75	Effect of oxygen partial pressure on the phosphorescence of different lanthanide ion (Ln ³⁺)-doped yttria-stabilised zirconia. <i>Sensors and Actuators B: Chemical</i> , 2020 , 308, 127666	8.5	6
74	Time-resolved particle image velocimetry measurement of vortex dynamics behind tandem self-oscillating inverted flags in a channel flow. <i>Experimental Thermal and Fluid Science</i> , 2020 , 112, 109982	3	5
73	Fast pressure-sensitive paint for understanding complex flows: from regular to harsh environments. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	30
72	The Formation and Evolution of Turbulent Swirling Vortex Rings Generated by Axial Swirlers. <i>Flow, Turbulence and Combustion</i> , 2020 , 104, 795-816	2.5	4
71	Turbine vane endwall film cooling with barchan-dune shaped ramp in a single-passage transonic wind tunnel. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 162, 120350	4.9	10
70	Flapping dynamics of vertically clamped three-dimensional flexible flags in a Poiseuille flow. <i>Physics of Fluids</i> , 2020 , 32, 071905	4.4	4
69	Flow dynamics of a fluidic oscillator with internal geometry variations. <i>Physics of Fluids</i> , 2020 , 32, 075114	4.4	15
68	Heat transfer enhancement in a poiseuille channel flow by using multiple wall-mounted flexible flags. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 163, 120447	4.9	4
67	Spinning behavior of flow-acoustic resonant fields inside a cavity: Vortex-shedding modes and diametral acoustic modes. <i>Physics of Fluids</i> , 2020 , 32, 085109	4.4	8
66	Study on three-dimensional flow structures of a sweeping jet using time-resolved stereo particle image velocimetry. <i>Experimental Thermal and Fluid Science</i> , 2020 , 110, 109945	3	5

65	Heat transfer of a sweeping jet impinging at narrow spacings. <i>Experimental Thermal and Fluid Science</i> , 2019 , 103, 89-98	3	26
64	Vortex dynamics during acoustic-mode transition in channel branches. <i>Physics of Fluids</i> , 2019 , 31, 085109	4.4	10
63	Light field enhancement of particle image velocimetry measurement using a profiled window and a ray tracing method. <i>Experimental Thermal and Fluid Science</i> , 2019 , 106, 25-37	3	2
62	Intensified flow dynamics by second-order acoustic standing-wave mode: Vortex-excited acoustic resonances in channel branches. <i>Physics of Fluids</i> , 2019 , 31, 035105	4.4	13
61	Flow and surface pressure field measurements on a circular cylinder with impingement of turbulent round jet. <i>Experimental Thermal and Fluid Science</i> , 2019 , 105, 67-76	3	3
60	Pressure-sensitive paint with imprinted pattern for full-field endoscopic measurement using a color camera. <i>Sensors and Actuators A: Physical</i> , 2019 , 290, 28-35	3.9	6
59	Heat transfer enhancement of turbulent channel flow using dual self-oscillating inverted flags: Staggered and side-by-side configurations. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 136, 851-863	4.9	13
58	Data assimilation and resolvent analysis of turbulent flow behind a wall-proximity rib. <i>Physics of Fluids</i> , 2019 , 31, 025118	4.4	11
57	Missing data recovery using data fusion of incomplete complementary data sets: A particle image velocimetry application. <i>Physics of Fluids</i> , 2019 , 31, 025105	4.4	7
56	Phase-locking particle image velocimetry measurement of unsteady flow behaviors: Online dynamic mode decomposition using field-programmable gate array. <i>Physics of Fluids</i> , 2019 , 31, 025109	4.4	7
55	Transient thermal behaviors of a scaled turbine valve: Conjugate heat transfer simulation and experimental measurement. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 141, 116-128	4.9	5
54	Time-resolved turbulent velocity field reconstruction using a long short-term memory (LSTM)-based artificial intelligence framework. <i>Physics of Fluids</i> , 2019 , 31, 075108	4.4	27
53	Unsteady behavior of wall-detached flow inside a steam turbine control valve. <i>Physics of Fluids</i> , 2019 , 31, 105101	4.4	4
52	Transient Thermal Behaviors of Ultra-Supercritical Steam Turbine Control Valves During the Cold Start Warm-Up Process: Conjugate Heat Transfer Simulation and Field Data Validation. <i>Journal of Heat Transfer</i> , 2019 , 141,	1.8	1
51	Super-resolution reconstruction of turbulent velocity fields using a generative adversarial network-based artificial intelligence framework. <i>Physics of Fluids</i> , 2019 , 31, 125111	4.4	38
50	A Review on Fluid-Induced Flag Vibrations. <i>Applied Mechanics Reviews</i> , 2019 , 71,	8.6	26
49	Influence of mainstream flow oscillations on spatio-temporal variation of adiabatic film cooling effectiveness. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 129, 569-579	4.9	21
48	Assessment of film cooling surface quantities using pressure- and temperature-sensitive paint: Comparisons between shaped and sand-dune inspired holes. <i>Experimental Thermal and Fluid Science</i> , 2019 , 101, 16-26	3	14

47	Lagrangian analysis of sweeping jets measured by time-resolved particle image velocimetry. <i>Experimental Thermal and Fluid Science</i> , 2018 , 97, 192-204	3	20
46	Quantitative stress measurement of elastic deformation using mechanoluminescent sensor: An intensity ratio model. <i>Review of Scientific Instruments</i> , 2018 , 89, 045006	1.7	7
45	Rapid tomographic reconstruction based on machine learning for time-resolved combustion diagnostics. <i>Review of Scientific Instruments</i> , 2018 , 89, 043101	1.7	12
44	Large-eddy simulation of circular jet mixing: Lip- and inner-ribbed nozzles. <i>Computers and Fluids</i> , 2018 , 168, 245-264	2.8	14
43	Vortex dynamics and heat transfer behind self-oscillating inverted flags of various lengths in channel flow. <i>Physics of Fluids</i> , 2018 , 30, 045104	4.4	26
42	A novel laminated OLED-BSP system for measurement on moving surfaces. <i>Journal of Visualization</i> , 2018 , 21, 215-223	1.6	6
41	Unsteady behavior of a sweeping impinging jet: Time-resolved particle image velocimetry measurements. <i>Experimental Thermal and Fluid Science</i> , 2018 , 96, 111-127	3	30
40	Computational fluid dynamics of steam flow in a turbine control valve with a bell-shaped spindle. <i>Applied Thermal Engineering</i> , 2018 , 129, 1333-1347	5.8	13
39	Heat transfer enhancement of turbulent channel flow using tandem self-oscillating inverted flags. <i>Physics of Fluids</i> , 2018 , 30, 075108	4.4	19
38	Unsteady analysis of adiabatic film cooling effectiveness behind circular, shaped, and sand-dune-inspired film cooling holes: Measurement using fast-response pressure-sensitive paint. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 125, 1003-1016	4.9	29
37	Recovering turbulent flow field from local quantity measurement: turbulence modeling using ensemble-Kalman-filter-based data assimilation. <i>Journal of Visualization</i> , 2018 , 21, 1043-1063	1.6	11
36	Integration of pressure-sensitive paint with persistent phosphor: A light-charged pressure-sensing system. <i>Review of Scientific Instruments</i> , 2018 , 89, 085003	1.7	5
35	Vortex-excited acoustic resonance in channel with coaxial side-branches: Vortex dynamics and aeroacoustic energy transfer. <i>Physics of Fluids</i> , 2018 , 30, 125104	4.4	9
34	Unsteady analysis of adiabatic film cooling effectiveness for discrete hole with oscillating mainstream flow. <i>Physics of Fluids</i> , 2018 , 30, 127103	4.4	18
33	Data mining of a clean signal from highly noisy data based on compressed data fusion: A fast-responding pressure-sensitive paint application. <i>Physics of Fluids</i> , 2018 , 30, 097103	4.4	11
32	Interaction of dual sweeping impinging jets at different Reynolds numbers. <i>Physics of Fluids</i> , 2018 , 30, 105105	4.4	22
31	Influence of vortex-excited acoustic resonance on flow dynamics in channel with coaxial side-branches. <i>Physics of Fluids</i> , 2018 , 30, 095105	4.4	15
30	A data assimilation model for turbulent flows using continuous adjoint formulation. <i>Physics of Fluids</i> , 2018 , 30, 105108	4.4	17

29	Proper orthogonal decomposition of turbulent flow around a finite blunt plate. <i>Journal of Visualization</i> , 2018 , 21, 763-777	1.6	7
28	Jet impingement heat transfer of a lobed nozzle: Measurements using temperature-sensitive paint and particle image velocimetry. <i>International Journal of Heat and Fluid Flow</i> , 2018 , 71, 111-126	2.4	13
27	A novel sprayable fast-responding pressure-sensitive paint based on mesoporous silicon dioxide particles. <i>Sensors and Actuators A: Physical</i> , 2018 , 279, 390-398	3.9	27
26	A dynamic delayed detached-eddy simulation model for turbulent flows. <i>Computers and Fluids</i> , 2017 , 146, 174-189	2.8	19
25	Separated flow over blunt plates with different chord-to-thickness ratios: Unsteady behaviors and wall-pressure fluctuations. <i>Experimental Thermal and Fluid Science</i> , 2017 , 84, 199-216	3	14
24	Effects of Flow Compressibility and Density Ratio on Film Cooling Performance. <i>Journal of Propulsion and Power</i> , 2017 , 33, 964-974	1.8	13
23	End-wall heat transfer of a rectangular bluff body at different heights: Temperature-sensitive paint measurement and computational fluid dynamics. <i>Applied Thermal Engineering</i> , 2017 , 122, 697-705	5.8	11
22	Proper orthogonal decomposition of time-resolved LIF visualization: scalar mixing in a round jet. <i>Journal of Visualization</i> , 2017 , 20, 789-815	1.6	9
21	Numerical Investigation of Creep Fatigue Behavior in a Steam Turbine Inlet Valve Under Cyclic Thermomechanical Loading. <i>Journal of Engineering for Gas Turbines and Power</i> , 2017 , 139,	1.7	5
20	Proper orthogonal decomposition-based spatial refinement of TR-PIV realizations using high-resolution non-TR-PIV measurements. <i>Experiments in Fluids</i> , 2017 , 58, 1	2.5	17
19	A novel sand-dune-inspired design for improved film cooling performance. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 110, 908-920	4.9	30
18	Structure analysis of adiabatic film cooling effectiveness in the near field of a single inclined jet: Measurement using fast-response pressure-sensitive paint. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 110, 629-642	4.9	18
17	Evaluation of the in-depth temperature sensing performance of Eu- and Dy-doped YSZ in air plasma sprayed thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2017 , 316, 210-218	4.4	12
16	Single-shot lifetime-based PSP and TSP measurements on turbocharger compressor blades. <i>Experiments in Fluids</i> , 2017 , 58, 1	2.5	15
15	Sequential data assimilation with multiple nonlinear models and applications to subsurface flow. <i>Journal of Computational Physics</i> , 2017 , 346, 356-368	4.1	3
14	Vortex dynamics behind a self-oscillating inverted flag placed in a channel flow: Time-resolved particle image velocimetry measurements. <i>Physics of Fluids</i> , 2017 , 29, 125104	4.4	28
13	Energy harvesting with two parallel pinned piezoelectric membranes in fluid flow. <i>Journal of Fluids and Structures</i> , 2016 , 65, 381-397	3.1	10
12	Measurement of flow structures and heat transfer behind a wall-proximity square rib using TSP, PIV and split-fiber film. <i>Experiments in Fluids</i> , 2016 , 57, 1	2.5	21

11	Wake dynamics behind a seal-vibrissa-shaped cylinder: a comparative study by time-resolved particle velocimetry measurements. <i>Experiments in Fluids</i> , 2016 , 57, 1	2.5	27
10	Phosphor-Doped Thermal Barrier Coatings Deposited by Air Plasma Spray for In-Depth Temperature Sensing. <i>Sensors</i> , 2016 , 16,	3.8	6
9	Simultaneous PSP and TSP measurements of transient flow in a long-duration hypersonic tunnel. <i>Experiments in Fluids</i> , 2016 , 57, 1	2.5	26
8	Fast PSP measurements of wall-pressure fluctuation in low-speed flows: improvements using proper orthogonal decomposition. <i>Experiments in Fluids</i> , 2016 , 57, 1	2.5	38
7	Improvements of film cooling effectiveness by using Barchan dune shaped ramps. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 103, 443-456	4.9	47
6	Dynamic mode decomposition of separated flow over a finite blunt plate: time-resolved particle image velocimetry measurements. <i>Experiments in Fluids</i> , 2015 , 56, 1	2.5	22
5	Flapping dynamics of a piezoelectric membrane behind a circular cylinder. <i>Journal of Fluids and Structures</i> , 2015 , 55, 347-363	3.1	15
4	Influence of incident vortex street on separated flow around a finite blunt plate: PIV measurement and POD analysis. <i>Journal of Fluids and Structures</i> , 2015 , 55, 463-483	3.1	15
3	The identification of coherent structures using proper orthogonal decomposition and dynamic mode decomposition. <i>Journal of Fluids and Structures</i> , 2014 , 49, 53-72	3.1	99
2	Flapping dynamics of a low aspect-ratio energy-harvesting membrane immersed in a square cylinder wake. <i>Experimental Thermal and Fluid Science</i> , 2013 , 46, 151-161	3	42
1	Dynamic delayed detached-eddy simulation and acoustic analogy analysis of unsteady flow through a sudden expansion pipe. <i>Journal of Visualization</i> , 1	1.6	0