

# Wen-Li Chen

## List of Publications by Year in descending order

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99  
papers

3,375  
citations

172207

29  
h-index

155451

55  
g-index

101  
all docs

101  
docs citations

101  
times ranked

2103  
citing authors

#	ARTICLE	IF	CITATIONS
1	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , 2019, 363, 723-727.	6.0	429
2	Naturally Dried Graphene Aerogels with Superelasticity and Tunable Poisson's Ratio. <i>Advanced Materials</i> , 2016, 28, 9223-9230.	11.1	254
3	Prediction model of velocity field around circular cylinder over various Reynolds numbers by fusion convolutional neural networks based on pressure on the cylinder. <i>Physics of Fluids</i> , 2018, 30, .	1.6	202
4	Hyperbolically Patterned 3D Graphene Metamaterial with Negative Poisson's Ratio and Superelasticity. <i>Advanced Materials</i> , 2016, 28, 2229-2237.	11.1	178
5	Suppression of vortex-induced vibration of a circular cylinder using suction-based flow control. <i>Journal of Fluids and Structures</i> , 2013, 42, 25-39.	1.5	174
6	Flow around a circular cylinder with slit. <i>Experimental Thermal and Fluid Science</i> , 2017, 82, 287-301.	1.5	110
7	An experimental study on a suction flow control method to reduce the unsteadiness of the wind loads acting on a circular cylinder. <i>Experiments in Fluids</i> , 2014, 55, 1.	1.1	98
8	An experimental investigation on vortex induced vibration of a flexible inclined cable under a shear flow. <i>Journal of Fluids and Structures</i> , 2015, 54, 297-311.	1.5	94
9	Passive jet control of flow around a circular cylinder. <i>Experiments in Fluids</i> , 2015, 56, 1.	1.1	89
10	Investigation and control of vortex-induced vibration of twin box girders. <i>Journal of Fluids and Structures</i> , 2013, 39, 205-221.	1.5	85
11	A numerical and experimental hybrid approach for the investigation of aerodynamic forces on stay cables suffering from rain-wind induced vibration. <i>Journal of Fluids and Structures</i> , 2010, 26, 1195-1215.	1.5	73
12	Numerical study on the suppression of the vortex-induced vibration of an elastically mounted cylinder by a traveling wave wall. <i>Journal of Fluids and Structures</i> , 2014, 44, 145-165.	1.5	60
13	An experimental study on the unsteady vortices and turbulent flow structures around twin-box-girder bridge deck models with different gap ratios. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014, 132, 27-36.	1.7	55
14	Active control of circular cylinder flow with windward suction and leeward blowing. <i>Experiments in Fluids</i> , 2019, 60, 1.	1.1	51
15	Suppression of vortex-induced vibration of a circular cylinder by a passive-jet flow control. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 199, 104119.	1.7	51
16	Review of the excitation mechanism and aerodynamic flow control of vortex-induced vibration of the main girder for long-span bridges: A vortex-dynamics approach. <i>Journal of Fluids and Structures</i> , 2021, 105, 103348.	1.5	51
17	Effects of attachments on aerodynamic characteristics and vortex-induced vibration of twin-box girder. <i>Journal of Fluids and Structures</i> , 2018, 77, 115-133.	1.5	49
18	Multi-modal vortex- and rain-wind induced vibrations of an inclined flexible cable. <i>Mechanical Systems and Signal Processing</i> , 2019, 118, 245-258.	4.4	49

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19	Experimental study on the dynamic responses of a freestanding bridge tower subjected to coupled actions of wind and wave loads. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 159, 36-47.	1.7	48
20	Flow around a slotted circular cylinder at various angles of attack. <i>Experiments in Fluids</i> , 2017, 58, 1.	1.1	48
21	Active flow control of the dynamic wake behind a square cylinder using combined jets at the front and rear stagnation points. <i>Physics of Fluids</i> , 2021, 33, .	1.6	47
22	An experimental study on the characteristics of wind-driven surface water film flows by using a multi-transducer ultrasonic pulse-echo technique. <i>Physics of Fluids</i> , 2017, 29, .	1.6	46
23	An experimental study on the aerodynamic performance degradation of a UAS propeller model induced by ice accretion process. <i>Experimental Thermal and Fluid Science</i> , 2019, 102, 101-112.	1.5	46
24	An ultrasonic transmission thickness measurement system for study of water rivulets characteristics of stay cables suffering from wind-induced rain-induced vibration. <i>Sensors and Actuators A: Physical</i> , 2010, 159, 12-23.	2.0	45
25	Numerical investigation of steady suction control of flow around a circular cylinder. <i>Journal of Fluids and Structures</i> , 2015, 59, 22-36.	1.5	44
26	Control of circular cylinder flow via bilateral splitter plates. <i>Physics of Fluids</i> , 2019, 31, .	1.6	39
27	Multi-mode responses, rivulet dynamics, flow structures and mechanism of rain-wind induced vibrations of a flexible cable. <i>Journal of Fluids and Structures</i> , 2018, 82, 154-172.	1.5	35
28	Time-resolved reconstruction of flow field around a circular cylinder by recurrent neural networks based on non-time-resolved particle image velocimetry measurements. <i>Experiments in Fluids</i> , 2020, 61, 1.	1.1	34
29	Investigation on the vortex-and-wake-induced vibration of a separated-box bridge girder. <i>Journal of Fluids and Structures</i> , 2017, 70, 145-161.	1.5	32
30	Numerical simulation and prediction of spatial wind field under complex terrain. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 180, 49-65.	1.7	32
31	Passive Jet Flow Control Method for Suppressing Unsteady Vortex Shedding from a Circular Cylinder. <i>Journal of Aerospace Engineering</i> , 2017, 30, .	0.8	29
32	Review of active control of circular cylinder flow. <i>Ocean Engineering</i> , 2022, 258, 111840.	1.9	29
33	Flow control of the wake vortex street of a circular cylinder by using a traveling wave wall at low Reynolds number. <i>Computers and Fluids</i> , 2017, 145, 52-67.	1.3	28
34	Flow characteristics of a fixed circular cylinder with an upstream splitter plate: On the plate-length sensitivity. <i>Experimental Thermal and Fluid Science</i> , 2020, 117, 110135.	1.5	27
35	Self-issuing jets for suppression of vortex-induced vibration of a single box girder. <i>Journal of Fluids and Structures</i> , 2019, 86, 213-235.	1.5	26
36	Wake-flow-induced vibrations of vertical hangers behind the tower of a long-span suspension bridge. <i>Engineering Structures</i> , 2018, 169, 188-200.	2.6	24

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37	A Two-Stage Seismic Damage Assessment Method for Small, Dense, and Imbalanced Buildings in Remote Sensing Images. <i>Remote Sensing</i> , 2022, 14, 1012.	1.8	24
38	Experimental investigation of aerodynamic forces and flow structures of bionic cylinders based on harbor seal vibrissa. <i>Experimental Thermal and Fluid Science</i> , 2018, 99, 169-180.	1.5	23
39	An experimental study on the dynamic ice accretion processes on bridge cables with different surface modifications. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 190, 218-229.	1.7	23
40	Influence of Dynamic Properties and Position of Rivulet on Rain-Induced Wind-Induced Vibration of Stay Cables. <i>Journal of Bridge Engineering</i> , 2013, 18, 1021-1031.	1.4	22
41	Numerical Simulation of Vortex-Induced Vibrations of Inclined Cables under Different Wind Profiles. <i>Journal of Bridge Engineering</i> , 2013, 18, 42-53.	1.4	20
42	Effects of steady wake-jets on subcritical cylinder flow. <i>Experimental Thermal and Fluid Science</i> , 2019, 102, 575-588.	1.5	20
43	A numerical investigation of Reynolds number sensitivity of flow characteristics around a twin-box girder. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 172, 298-316.	1.7	19
44	Experimental Investigation on Vortex-Induced Vibration Mitigation of Stay Cables in Long-Span Bridges Equipped with Damped Crossties. <i>Journal of Aerospace Engineering</i> , 2019, 32, .	0.8	19
45	A Field Investigation on Vortex-Induced Vibrations of Stay Cables in a Cable-Stayed Bridge. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4556.	1.3	18
46	Suppression of vortex-induced vibration of single-box girder with various angles of attack by self-issuing jet method. <i>Journal of Fluids and Structures</i> , 2020, 96, 103017.	1.5	18
47	Attenuation of vortex street by suction through the structured porous surface. <i>Physics of Fluids</i> , 2021, 33, .	1.6	18
48	Dynamic wake of a square cylinder controlled with steady jet positioned at the rear stagnation point. <i>Ocean Engineering</i> , 2021, 233, 109157.	1.9	17
49	Separation Control on a Bridge Box Girder Using a Bypass Passive Jet Flow. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 501.	1.3	16
50	Computer vision-based recognition of rainwater rivulet morphology evolution during rain-induced wind-induced vibration of a 3D aeroelastic stay cable. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 172, 367-378.	1.7	14
51	Passive suction jet control of flow regime around a rectangular column with a low side ratio. <i>Experimental Thermal and Fluid Science</i> , 2019, 109, 109815.	1.5	13
52	Active control of flow structure and unsteady aerodynamic force of box girder with leading-edge suction and trailing-edge jet. <i>Experimental Thermal and Fluid Science</i> , 2021, 120, 110244.	1.5	13
53	Influence of porous media coatings on flow characteristics and vortex-induced vibration of circular cylinders. <i>Journal of Fluids and Structures</i> , 2021, 106, 103365.	1.5	13
54	Experimental investigation on a freestanding bridge tower under wind and wave loads. <i>Structural Engineering and Mechanics</i> , 2016, 57, 951-968.	1.0	13

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55	On the coupling mechanism of rain-wind two-phase flow induced cable vibration: A wake-dynamics perspective. <i>Physics of Fluids</i> , 2021, 33, .	1.6	13
56	Characteristics of forced flow past a square cylinder with steady suction at leading-edge corners. <i>Physics of Fluids</i> , 2022, 34, .	1.6	13
57	Multi-scale simulation of rainwater morphology evolution on a cylinder subjected to wind. <i>Computers and Fluids</i> , 2015, 123, 112-121.	1.3	12
58	Wake-induced vibration of a suspender cable in the rear of a bridge tower. <i>Journal of Fluids and Structures</i> , 2020, 99, 103166.	1.5	10
59	Modification of subcritical cylinder flow with an upstream rod. <i>Physics of Fluids</i> , 2022, 34, .	1.6	10
60	Dynamics of the forced wake of a square cylinder with embedded flapping jets. <i>Applied Ocean Research</i> , 2022, 120, 103078.	1.8	10
61	Structured porous surface for drag reduction and wake attenuation of cylinder flow. <i>Ocean Engineering</i> , 2022, 247, 110444.	1.9	10
62	Wake-vortex evolution behind a fixed circular cylinder with symmetric jets. <i>Experimental Thermal and Fluid Science</i> , 2022, 135, 110629.	1.5	10
63	Large eddy simulation of passive jet flow control on the wake of flow around a circular cylinder. <i>Computers and Fluids</i> , 2020, 196, 104342.	1.3	9
64	Passive aerodynamic control of a single-box girder using self-issuing jets. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 208, 104443.	1.7	9
65	Ludwig Prandtl's envisage: elimination of von Kármán vortex street with boundary-layer suction. <i>Journal of Visualization</i> , 2021, 24, 237-250.	1.1	9
66	Self-Suction-and-Jet Control in Flow Regime and Unsteady Force for a Single Box Girder. <i>Journal of Bridge Engineering</i> , 2019, 24, 04019072.	1.4	8
67	Self-similarity in the wake of a semi-submersible offshore wind turbine considering the interaction with the wake of supporting platform. <i>Renewable Energy</i> , 2020, 156, 328-341.	4.3	8
68	A Numerical Study on the Development of Self-Similarity in a Wind Turbine Wake Using an Improved Pseudo-Spectral Large-Eddy Simulation Solver. <i>Energies</i> , 2019, 12, 643.	1.6	7
69	Effects of leading-edge separation on the vortex shedding and aerodynamic characteristics of an elongated bluff body. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 206, 104356.	1.7	7
70	Active Wake Control of Flow Past a Circular Cylinder with Slot Jet. <i>Journal of Aerospace Engineering</i> , 2021, 34, .	0.8	7
71	Investigation of a hybrid approach combining experimental tests and numerical simulations to study vortex-induced vibration in a circular cylinder. <i>Journal of Sound and Vibration</i> , 2012, 331, 1164-1182.	2.1	6
72	Suppression of vortex-induced vibration of a box girder using active suction-jet slit. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 216, 104713.	1.7	6

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73	A coupled model for vortex induced vibration of a circular cylinder with and without passive-jet flow control. <i>Journal of Fluids and Structures</i> , 2022, 110, 103541.	1.5	6
74	Wake stabilization behind a cylinder by secondary flow over the leeward surface. <i>Physics of Fluids</i> , 2022, 34, 055110.	1.6	6
75	Study on Strain-Sense Property of TiNi and TiNiCu Shape Memory Alloys. <i>Advances in Structural Engineering</i> , 2005, 8, 637-643.	1.2	5
76	Semiactive variable stiffness control for parametric vibration of cables. <i>Earthquake Engineering and Engineering Vibration</i> , 2006, 5, 215-222.	1.1	5
77	Lift-Generation and Moving-Wall Flow Control Over a Low Aspect Ratio Airfoil. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018, 140, .	0.8	5
78	Effect of suction control on the aerodynamic characteristics of an elliptical cylinder. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 202, 104202.	1.7	5
79	Fluid Dynamics Behind a Circular Cylinder Embedded with an Active Flapping Jet Actuator. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021, , .	0.8	5
80	Experimental investigation on the impingement of synthetic jet vortex rings on a spherical wall. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	4
81	Acoustic Emission Characters of Glass Fibre Reinforced Polymer Stay Cable. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012, 9, 1357-1363.	0.4	3
82	A Feasibility Study to Identify Ice Types by Measuring Attenuation of Ultrasonic Waves for Aircraft Icing Detection. , 2014, , .		3
83	Development of an ultrasonic pulse-echo (UPE) technique for aircraft icing studies. <i>AIP Conference Proceedings</i> , 2014, , .	0.3	3
84	Self-Suction and Self-Jet Control on Wind Loads and Turbulent Flow Structures over a Circular Cylinder. <i>Journal of Aerospace Engineering</i> , 2019, 32, .	0.8	3
85	Role of dynamic water rivulets in the excitation of rain-induced wind-induced cable vibration: A critical review. <i>Advances in Structural Engineering</i> , 2021, 24, 3627-3644.	1.2	3
86	Numerical simulation of passive-suction-jet control of flow over two side-by-side circular cylinders. <i>Ocean Engineering</i> , 2022, 257, 111624.	1.9	3
87	Vortex-induced vibration of stay cable under profile velocity using CFD numerical simulation method. <i>Frontiers of Architecture and Civil Engineering in China</i> , 2009, 3, 357-363.	0.4	2
88	A Passive Method to Control the Wake Flow behind a Circular Cylinder. , 2017, , .		2
89	Flow control on the vortex-induced vibration of a circular cylinder using a traveling wave wall method. <i>Advances in Structural Engineering</i> , 2018, 21, 1664-1675.	1.2	2
90	Effects of leading-edge separation on the vortex-induced vibration of an elongated bluff body. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 209, 104500.	1.7	2

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91	Experimental Investigation and Validation on Suppressing the Unsteady Aerodynamic Force and Flow Structure of Single Box Girder by Trailing Edge Jets. Applied Sciences (Switzerland), 2022, 12, 967.	1.3	2
92	Real-time monitoring of bridge scouring using ultrasonic sensing technology. , 2012, , .		1
93	Analysis of load characteristics and responses of low-rise building under tornado. Procedia Engineering, 2017, 210, 165-172.	1.2	1
94	Passive Jet Approach to Control the Flow over a Circular Cylinder. Journal of Aerospace Engineering, 2020, 33, .	0.8	1
95	Numerical simulation and experiment investigation on passive-suction-jet control of wind effect of two tandem cable models. Advances in Structural Engineering, 2021, 24, 897-913.	1.2	1
96	Numerical Simulation Study on a Passive Jet Flow Control Method to Suppress Unsteady Vortex Shedding from a Circular Cylinder. Lecture Notes in Mechanical Engineering, 2016, , 441-446.	0.3	1
97	An Experimental Investigation of Passive Jet Control Method on Bridge Tower Wake. Applied Sciences (Switzerland), 2022, 12, 4691.	1.3	1
98	Suppression of Unsteady Vortex Shedding From a Circular Cylinder by Using a Passive Jet Flow Control Method. , 2014, , .		0
99	New Advances in Fluidâ€“Structure Interaction. Applied Sciences (Switzerland), 2022, 12, 5366.	1.3	0