

Xu-hui He

List of Publications by Year in descending order

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119
papers

1,961
citations

257101

24
h-index

344852

36
g-index

120
all docs

120
docs citations

120
times ranked

821
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments of high-speed railway bridges in China. <i>Structure and Infrastructure Engineering</i> , 2017, 13, 1584-1595.	2.0	152
2	Crack Detection and Comparison Study Based on Faster R-CNN and Mask R-CNN. <i>Sensors</i> , 2022, 22, 1215.	2.1	93
3	Evaluation of optimal ground motion intensity measures and seismic fragility analysis of a multi-pylon cable-stayed bridge with super-high piers in Mountainous Areas. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 129, 105945.	1.9	68
4	Effects of vertical ground motions on seismic vulnerabilities of a continuous track-bridge system of high-speed railway. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 115, 281-290.	1.9	61
5	LES study of turbulent flow fields over a smooth 3-D hill and a smooth 2-D ridge. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 153, 1-12.	1.7	57
6	Effects of friction-based fixed bearings on the seismic vulnerability of a high-speed railway continuous bridge. <i>Advances in Structural Engineering</i> , 2018, 21, 643-657.	1.2	50
7	Effects of aerodynamic parameters on the dynamic responses of road vehicles and bridges under cross winds. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014, 134, 78-95.	1.7	44
8	LES study on the turbulent flow fields over complex terrain covered by vegetation canopy. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 155, 60-73.	1.7	42
9	Experimental verification of the effectiveness of elastic cross-ties in suppressing wake-induced vibrations of staggered stay cables. <i>Engineering Structures</i> , 2018, 167, 151-165.	2.6	41
10	Review of aerodynamics of high-speed train-bridge system in crosswinds. <i>Journal of Central South University</i> , 2020, 27, 1054-1073.	1.2	41
11	Aerodynamic response of high-speed trains under crosswind in a bridge-tunnel section with or without a wind barrier. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 210, 104502.	1.7	41
12	Transient aerodynamic performance of high-speed trains when passing through an infrastructure consisting of tunnel-bridge-tunnel under crosswind. <i>Tunnelling and Underground Space Technology</i> , 2020, 102, 103440.	3.0	40
13	Effects of uncertain characteristic periods of ground motions on seismic vulnerabilities of a continuous track-bridge system of high-speed railway. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 3739-3769.	2.3	39
14	Effects of geometrical parameters on the aerodynamic characteristics of a streamlined flat box girder. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 170, 56-67.	1.7	38
15	An efficient analysis framework for high-speed train-bridge coupled vibration under non-stationary winds. <i>Structure and Infrastructure Engineering</i> , 2020, 16, 1326-1346.	2.0	37
16	Cyclic performance of bonded sleeve beam-column connections for FRP tubular sections. <i>Composites Part B: Engineering</i> , 2018, 142, 171-182.	5.9	32
17	Twisted-wind effect on the flow field of tall building. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 218, 104778.	1.7	29
18	Effects of oncoming flow conditions on the aerodynamic forces on a cantilevered square cylinder. <i>Journal of Fluids and Structures</i> , 2017, 75, 140-157.	1.5	28

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19	Effects of wind-barrier parameters on dynamic responses of wind-road vehicle-bridge system. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 206, 104367.	1.7	28
20	The Applicability of Different Earthquake Intensity Measures to the Seismic Vulnerability of a High-Speed Railway Continuous Bridge. International Journal of Civil Engineering, 2019, 17, 981-997.	0.9	27
21	Fiber-Reinforced Polymer Composite Members with Adhesive Bonded Sleeve Joints for Space Frame Structures. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	26
22	Effect of wind barriers on the flow field and aerodynamic forces of a train-bridge system. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2019, 233, 283-297.	1.3	26
23	Aerodynamic performance of a novel wind barrier for train-bridge system. Wind and Structures, an International Journal, 2016, 23, 171-189.	0.8	26
24	In-plane modal frequencies and mode shapes of two stay cables interconnected by uniformly distributed cross-ties. Journal of Sound and Vibration, 2018, 417, 38-55.	2.1	25
25	System-based probabilistic evaluation of longitudinal seismic control for a cable-stayed bridge with three super-tall towers. Engineering Structures, 2021, 229, 111586.	2.6	24
26	Simulation of train-bridge interaction under wind loads: a rigid-flexible coupling approach. International Journal of Rail Transportation, 2018, 6, 163-182.	1.8	23
27	Deterioration of dynamic response during high-speed train travelling in tunnel-bridge-tunnel scenario under crosswinds. Tunnelling and Underground Space Technology, 2020, 106, 103627.	3.0	23
28	Efficacy of Interpolation-Enhanced Schemes in Random Wind Field Simulation over Long-Span Bridges. Journal of Bridge Engineering, 2018, 23, .	1.4	22
29	Experimental study on aerodynamic characteristics of a high-speed train on viaducts in turbulent crosswinds. Journal of Central South University, 2020, 27, 2465-2478.	1.2	22
30	Control of the aerodynamic forces of a finite-length square cylinder with steady slot suction at its free end. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 179, 438-448.	1.7	20
31	Parameter optimization for improved aerodynamic performance of louver-type wind barrier for train-bridge system. Journal of Central South University, 2019, 26, 229-240.	1.2	20
32	Wind tunnel tests on the aerodynamic characteristics of vehicles on highway bridges. Advances in Structural Engineering, 2020, 23, 2882-2897.	1.2	20
33	Continuous performance assessment of thin-film flexible photovoltaic cells under mechanical loading for building integration. Solar Energy, 2019, 183, 96-104.	2.9	19
34	Time-resolved aerodynamic loads on high-speed trains during running on a tunnel-bridge-tunnel infrastructure under crosswind. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 202-221.	1.5	19
35	Advances in wind tunnel experimental investigations of train-bridge systems. Tunnelling and Underground Space Technology, 2021, 118, 104157.	3.0	19
36	Interaction between continuous welded rail and long-span steel truss arch bridge of a high-speed railway under seismic action. Structure and Infrastructure Engineering, 2018, 14, 1051-1064.	2.0	18

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37	Aerodynamics of a scale model of a high-speed train on a streamlined deck in cross winds. <i>Journal of Fluids and Structures</i> , 2019, 91, 102717.	1.5	18
38	Parametric Sensitivity Analysis on the Buffeting Control of a Long-Span Triple-Tower Suspension Bridge with MTMD. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 395.	1.3	17
39	The Impact of the Convex Friction Distribution on the Seismic Response of a Spring-friction Isolation System. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 1203-1213.	0.9	17
40	Numerical investigation on scaling a pure friction isolation system for civil structures in shaking table model tests. <i>International Journal of Non-Linear Mechanics</i> , 2018, 98, 1-12.	1.4	16
41	Low-frequency dynamics of the flow around a finite-length square cylinder. <i>Experimental Thermal and Fluid Science</i> , 2019, 109, 109877.	1.5	16
42	An experimental study on dynamic ice accretion and its effects on the aerodynamic characteristics of stay cables with and without helical fillets. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 205, 104326.	1.7	16
43	Crosswind aerodynamic characteristics of a stationary interior railway carriage through a long-span truss-girder bridge. <i>Engineering Structures</i> , 2020, 210, 110350.	2.6	16
44	Investigation of concrete box girder positive temperature gradient patterns considering different climatic regions. <i>Structures</i> , 2022, 35, 591-607.	1.7	16
45	Sensitive factors research for track-bridge interaction of Long-span X-style steel-box arch bridge on high-speed railway. <i>Journal of Central South University</i> , 2013, 20, 3314-3323.	1.2	15
46	Stress Analysis of a Long-Span Steel-Truss Suspension Bridge under Combined Action of Random Traffic and Wind Loads. <i>Journal of Aerospace Engineering</i> , 2018, 31, 04018021.	0.8	15
47	Aerodynamic Performance of an Adaptive GFRP Wind Barrier Structure for Railway Bridges. <i>Materials</i> , 2020, 13, 4214.	1.3	14
48	Seismic Isolation Characteristics of a Friction System. <i>Journal of Testing and Evaluation</i> , 2018, 46, 1411-1420.	0.4	14
49	Numerical modeling of the wind load of a two-dimensional cable model in rain-induced wind-induced vibration. <i>Journal of Fluids and Structures</i> , 2018, 82, 121-133.	1.5	13
50	Wind-induced vibration and its suppression of photovoltaic modules supported by suspension cables. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 206, 104275.	1.7	13
51	Numerical investigation of flow structures and aerodynamic interference around stationary parallel box girders. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 215, 104610.	1.7	13
52	Reliability Evaluation of Vortex-Induced Vibration for a Long-Span Arch Bridge. <i>Journal of Bridge Engineering</i> , 2018, 23, .	1.4	12
53	Wind Load Characteristics of Wind Barriers Induced by High-Speed Trains Based on Field Measurements. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4865.	1.3	12
54	Running Safety Assessment of a Train Traversing a Long-Span Bridge Under Sudden Changes in Wind Loads Owing to Damaged Wind Barriers. <i>International Journal of Structural Stability and Dynamics</i> , 2022, 22, .	1.5	12

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55	Comparison of aerodynamic performance of high-speed train driving on tunnel-bridge section under fluctuating winds based on three turbulence models. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2022, 228, 105081.	1.7	12
56	Measurement of Non-Stationary Characteristics of a Landfall Typhoon at the Jiangyin Bridge Site. <i>Sensors</i> , 2017, 17, 2186.	2.1	11
57	An Analytical Framework for the Investigation of Tropical Cyclone Wind Characteristics over Different Measurement Conditions. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5385.	1.3	11
58	Numerical investigation on the crosswind effects on a train running on a bridge. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 1458-1471.	1.5	11
59	Lateral aerodynamic interference between an interior train and a flat box bridge-deck. <i>Experimental Thermal and Fluid Science</i> , 2020, 117, 110115.	1.5	11
60	Energy transmission at subcritical Reynolds numbers for the wake-induced vibration of cylinders in a tandem arrangement. <i>Ocean Engineering</i> , 2020, 211, 107572.	1.9	11
61	Simulation Study on Train-Induced Vibration Control of a Long-Span Steel Truss Girder Bridge by Tuned Mass Dampers. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-12.	0.6	10
62	Seismic Vulnerability Evaluation of a Three-Span Continuous Beam Railway Bridge. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-13.	0.6	10
63	Field Study of the Interior Noise and Vibration of a Metro Vehicle Running on a Viaduct: A Case Study in Guangzhou. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2807.	1.2	10
64	Track Irregularity Monitoring on High-Speed Railway Viaducts: A Novel Algorithm with Unknown Input Condensation. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	1.6	10
65	Crosswind effects on a train-bridge system: wind tunnel tests with a moving vehicle. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 678-690.	2.0	10
66	Study on Mechanical Properties of Modified Polyurethane Concrete at Different Temperatures. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3184.	1.3	10
67	Structural safety monitoring for Nanjing Yangtze River Bridge. <i>Central South University</i> , 2004, 11, 332-335.	0.5	9
68	Effects of Spatial Variation of Ground Motion (SVGM) on Seismic Vulnerability of Ultra-high Tower and Multi-tower Cable-stayed Bridges. <i>Journal of Earthquake Engineering</i> , 2022, 26, 8495-8524.	1.4	9
69	Design, Analysis and Construction of a Steel Truss Cable-Stayed Bridge for High-Speed Railway in China. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2016, 26, 381-388.	0.5	8
70	Laser-based intelligent perception method for tunnel invasion. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 6451-6458.	1.5	8
71	NONSTATIONARITY ANALYSIS IN WIND-RAIN-INDUCED VIBRATION OF STAY CABLES. <i>Journal of Civil Engineering and Management</i> , 2012, 18, 821-827.	1.9	7
72	Truck Weight Limit for Simply Supported Steel Girder Bridges Based on Bridge Fatigue Reliability. <i>Journal of Aerospace Engineering</i> , 2018, 31, .	0.8	7

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73	Strong Wind Characteristics and Buffeting Response of a Cable-Stayed Bridge under Construction. Sensors, 2020, 20, 1228.	2.1	7
74	Wake-induced vibrations of tandem flexible cable models in a wind tunnel. Ocean Engineering, 2021, 233, 109188.	1.9	7
75	Influences of Wind Barriers on the Train Running Safety on a Highway-Railway One-Story Bridge. International Journal of Structural Stability and Dynamics, 2021, 21, .	1.5	7
76	Earthquake Isolation of a Spring-Damper-Friction System with a Convex Friction Distribution. Journal of Testing and Evaluation, 2019, 47, 889-904.	0.4	7
77	An experimental study on mitigating dynamic ice accretion process on bridge cables with a superhydrophobic coating. Experimental Thermal and Fluid Science, 2022, 132, 110573.	1.5	7
78	Effects of Curved Wind Barrier on the Aerodynamic Characteristics of a Train-Bridge System and Its Static Wind Load. International Journal of Structural Stability and Dynamics, 2022, 22, .	1.5	7
79	Analysis of the effects of wind barrier on driving safety and comfort of vehicles on long-span bridges under crosswinds. Structures, 2022, 42, 367-385.	1.7	7
80	Moving model test on the aerodynamic pressure of bilateral inverted-L-shaped noise barriers caused by high-speed trains. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 228, 105083.	1.7	7
81	Transition along a finite-length cylinder in the presence of a thin boundary layer. Experiments in Fluids, 2016, 57, 1.	1.1	6
82	Evolutionary power spectral density analysis on the wind-induced buffeting responses of Sutong Bridge during Typhoon Haikui. Advances in Structural Engineering, 2017, 20, 214-224.	1.2	6
83	Quantification of aerodynamic forces for truss bridge-girders based on wind tunnel test and kriging surrogate model. Advances in Structural Engineering, 2021, 24, 2161-2175.	1.2	6
84	Mechanical characteristics of a new type of cable-supported photovoltaic module system. Solar Energy, 2021, 226, 408-420.	2.9	6
85	Characteristics of the velocity field in slipstream induced by a CR 400 high-speed train lead-carriage. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111205.	2.5	6
86	Experimental study on wind force coefficient of a truss arch tower with multiple skewbacks. Advances in Structural Engineering, 2020, 23, 2614-2625.	1.2	5
87	Influence of wind barrier on the transient aerodynamic performance of high-speed trains under crosswinds at tunnel-bridge sections. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 727-746.	1.5	5
88	Pressure distribution, aerodynamic forces and wake-vortex evolution of a sectional cable model controlled with steady windward-and-leeward jets. Journal of Visualization, 2021, 24, 1155-1172.	1.1	5
89	An Efficient Non-Iterative Hybrid Method for Analyzing Train-Rail-Bridge Interaction Problems. International Journal of Structural Stability and Dynamics, 2021, 21, 2150029.	1.5	5
90	Dynamic Characteristics of Unsteady Aerodynamic Pressure on an Enclosed Housing for Sound Emission Alleviation Caused by a Passing High-Speed Train. Applied Sciences (Switzerland), 2022, 12, 1545.	1.3	5

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91	Parametric studies on the dynamic properties of stay cables interconnected with uniformly distributed cross-ties. <i>Advances in Structural Engineering</i> , 2019, 22, 882-892.	1.2	4
92	Full-scale measurements of wind structure and dynamic behaviour of a transmission tower during a typhoon. <i>Structure and Infrastructure Engineering</i> , 2020, 16, 820-830.	2.0	4
93	Aerodynamics of a two-dimensional bluff body with the cross-section of a train. <i>Advances in Structural Engineering</i> , 2020, 23, 2679-2693.	1.2	4
94	Experimental Study of Aerodynamic Interference Effects for a Suspended Monorail Vehicleâ€“Bridge System Using a Wireless Acquisition System. <i>Sensors</i> , 2021, 21, 5841.	2.1	4
95	Structural Damage Identification Based on Transmissibility in Time Domain. <i>Sensors</i> , 2022, 22, 393.	2.1	4
96	Influence of Wind Barriers with Different Curvatures on Crosswind Aerodynamic Characteristics of a Train-Bridge System. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1747.	1.3	4
97	Effect of Topography Truncation on Experimental Simulation of Flow over Complex Terrain. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2477.	1.3	4
98	Experimental Study of the Aerodynamic Characteristics of a Suspended Monorail Vehicle-Bridge System Under Crosswinds. <i>International Journal of Structural Stability and Dynamics</i> , 2022, 22, .	1.5	4
99	Optimal transverse position for overweight trucks to cross simply supported multi-girder bridges. <i>Advances in Structural Engineering</i> , 2018, 21, 1251-1261.	1.2	3
100	Dynamics of Double-Beam System with Various Symmetric Boundary Conditions Traversed by a Moving Force: Analytical Analyses. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1218.	1.3	3
101	A Numerical Investigation on Scaling Rolling Friction Effects in Shaking Table Model Tests. <i>Shock and Vibration</i> , 2019, 2019, 1-14.	0.3	3
102	Dynamic Responses of a Metro Train-Bridge System under Train-Braking: Field Measurements and Data Analysis. <i>Sensors</i> , 2020, 20, 735.	2.1	3
103	Influence of site conditions on structural vulnerability of a super high three-tower cable-stayed bridge. <i>Structures</i> , 2021, 34, 3882-3893.	1.7	3
104	Wind Tunnel Study on Aerodynamic Characteristics of the Train on Viaducts with a New Type of Windâ€“Noise Barrier Under Cross Wind. <i>International Journal of Structural Stability and Dynamics</i> , 0, ..	1.5	3
105	Wind Field Characteristics of Complex Terrain Based on Experimental and Numerical Investigation. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5124.	1.3	3
106	Investigation of Temperature Variations and Extreme Temperature Differences for the Corrugated Web Steel Beams under Solar Radiation. <i>Sensors</i> , 2022, 22, 4557.	2.1	3
107	Thickness Measurement of Water Film/Rivulets Based on Grayscale Index. <i>Remote Sensing</i> , 2019, 11, 2871.	1.8	2
108	Dynamic Responses of the Metro Trainâ€™s Bogie Frames: Field Tests and Data Analysis. <i>Shock and Vibration</i> , 2020, 2020, 1-10.	0.3	2

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109	Effect of Train-Induced Wind on the Transmission of COVID-19: A New Insight into Potential Infectious Risks. International Journal of Environmental Research and Public Health, 2021, 18, 8164.	1.2	2
110	Aerodynamic characteristics of trains on a viaduct with non-uniform cross-section under crosswinds by wind tunnel tests. Advances in Structural Engineering, 0, , 136943322098609.	1.2	2
111	Main Achievements and Technical challenges of High-speed Railway Bridges in China. , 2016, , .		2
112	Effects of High-Speed Trains on Trucks Running on a Roadâ€“Rail Dual-Use Bridge Under Crosswind. International Journal of Structural Stability and Dynamics, 2022, 22, .	1.5	2
113	Aerodynamic Characteristics of a High-Speed Train Travel on the Bridge. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	1
114	Aerodynamics of a Train and Flat Closed-Box Bridge System with Train Model Mounted on the Upstream Track. Applied Sciences (Switzerland), 2022, 12, 276.	1.3	1
115	Case Study of Bus Rapid Transit Bridges in Xiamen, China. , 2010, , .		0
116	Measurement for the Thickness of Water Droplets/Film on a Curved Surface with Digital Image Projection (DIP) Technique. Sensors, 2020, 20, 2409.	2.1	0
117	Analysis of urban road traffic noise exposure of residential buildings in hong kong over the past decade. Noise and Health, 2019, 21, 142-154.	0.4	0
118	Numerical Study of Wind Loads on a High-Speed Train in the Center of Tornado. , 2022, , .		0
119	A new type of aerodynamic measurement technology for vehicle model running on bridge under crosswind in wind tunnel test. Advances in Structural Engineering, 0, , 136943322211012.	1.2	0