

# Steve Cs Cai

## List of Publications by Year in descending order

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223  
papers

7,292  
citations

53794

45  
h-index

82547

72  
g-index

224  
all docs

224  
docs citations

224  
times ranked

4095  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic emission monitoring of bridges: Review and case studies. <i>Engineering Structures</i> , 2010, 32, 1704-1714.	5.3	446
2	Steel-Concrete Composite Beams Considering Shear Slip Effects. <i>Journal of Structural Engineering</i> , 2003, 129, 495-506.	3.4	200
3	Framework of vehicle-bridge-wind dynamic analysis. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2004, 92, 579-607.	3.9	196
4	Experimental behavior of circular concrete-filled steel tube stub columns. <i>Journal of Constructional Steel Research</i> , 2007, 63, 165-174.	3.9	178
5	Development of dynamic impact factor for performance evaluation of existing multi-girder concrete bridges. <i>Engineering Structures</i> , 2010, 32, 21-31.	5.3	169
6	State-of-the-art review on bridge weigh-in-motion technology. <i>Advances in Structural Engineering</i> , 2016, 19, 1514-1530.	2.4	164
7	Mechanical and thermal properties of fly ash based geopolymers. <i>Construction and Building Materials</i> , 2018, 160, 66-81.	7.2	152
8	Bridge Scour: Prediction, Modeling, Monitoring, and Countermeasures-Review. <i>Practice Periodical on Structural Design and Construction</i> , 2010, 15, 125-134.	1.3	140
9	Mechanical properties and microstructure of graphene oxide cement-based composites. <i>Construction and Building Materials</i> , 2019, 194, 102-109.	7.2	140
10	Bridge Model Updating Using Response Surface Method and Genetic Algorithm. <i>Journal of Bridge Engineering</i> , 2010, 15, 553-564.	2.9	136
11	Influence of cracks on chloride diffusivity in concrete: A five-phase mesoscale model approach. <i>Construction and Building Materials</i> , 2019, 197, 587-596.	7.2	127
12	Accident assessment of vehicles on long-span bridges in windy environments. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2004, 92, 991-1024.	3.9	125
13	The State-of-the-Art on Framework of Vibration-Based Structural Damage Identification for Decision Making. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 497.	2.5	114
14	Seismic behavior of connections composed of CFSSTCs and steel-concrete composite beams-experimental study. <i>Journal of Constructional Steel Research</i> , 2008, 64, 1178-1191.	3.9	102
15	An experimental study on reinforced concrete beams strengthened with prestressed near surface mounted CFRP strips. <i>Engineering Structures</i> , 2014, 79, 222-233.	5.3	89
16	Identification of parameters of vehicles moving on bridges. <i>Engineering Structures</i> , 2009, 31, 2474-2485.	5.3	83
17	Stiffness and Deflection of Steel-Concrete Composite Beams under Negative Bending. <i>Journal of Structural Engineering</i> , 2004, 130, 1842-1851.	3.4	80
18	New Connection System for Confined Concrete Columns and Beams. I: Experimental Study. <i>Journal of Structural Engineering</i> , 2008, 134, 1787-1799.	3.4	78

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19	Fatigue Reliability Assessment for Existing Bridges Considering Vehicle Speed and Road Surface Conditions. <i>Journal of Bridge Engineering</i> , 2012, 17, 443-453.	2.9	78
20	Seismic behavior of ring beam joints between concrete-filled twin steel tubes columns and reinforced concrete beams. <i>Engineering Structures</i> , 2012, 39, 1-10.	5.3	75
21	Vehicle Induced Dynamic Behavior of Short-Span Slab Bridges Considering Effect of Approach Slab Condition. <i>Journal of Bridge Engineering</i> , 2008, 13, 83-92.	2.9	73
22	Experimental study of partially shear-connected composite beams with profiled sheeting. <i>Engineering Structures</i> , 2008, 30, 1-12.	5.3	69
23	Survey of Short- and Medium-Span Bridge Damage Induced by Hurricane Katrina. <i>Journal of Bridge Engineering</i> , 2008, 13, 377-387.	2.9	69
24	Identification of Dynamic Vehicular Axle Loads: Theory and Simulations. <i>JVC/Journal of Vibration and Control</i> , 2010, 16, 2167-2194.	2.6	68
25	Experimental study of flexural fatigue performance of reinforced concrete beams strengthened with prestressed CFRP plates. <i>Engineering Structures</i> , 2016, 127, 62-72.	5.3	68
26	Flexural behavior of corroded HPS beams. <i>Engineering Structures</i> , 2019, 195, 274-287.	5.3	67
27	Flutter reliability analysis of suspension bridges. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2005, 93, 757-775.	3.9	65
28	Effect of approach span condition on vehicle-induced dynamic response of slab-on-girder road bridges. <i>Engineering Structures</i> , 2007, 29, 3210-3226.	5.3	65
29	Overview of Potential and Existing Applications of Shape Memory Alloys in Bridges. <i>Journal of Bridge Engineering</i> , 2011, 16, 305-315.	2.9	62
30	Numerical simulations of lateral restraining stiffness effect on bridge deck-wave interaction under solitary waves. <i>Engineering Structures</i> , 2015, 101, 337-351.	5.3	60
31	Seismic behavior of connections composed of CFSSTCs and steel-concrete composite beams finite element analysis. <i>Journal of Constructional Steel Research</i> , 2008, 64, 680-688.	3.9	59
32	Applications of fiber optic sensors in civil engineering. <i>Structural Engineering and Mechanics</i> , 2007, 25, 577-596.	1.0	57
33	Comparative assessment of mechanical properties of HPS between electrochemical corrosion and spray corrosion. <i>Construction and Building Materials</i> , 2020, 237, 117735.	7.2	56
34	Cable Vibration Control with a TMD-MR Damper System: Experimental Exploration. <i>Journal of Structural Engineering</i> , 2007, 133, 629-637.	3.4	54
35	Numerical investigation of the lateral restraining stiffness effect on the bridge deck-wave interaction under Stokes waves. <i>Engineering Structures</i> , 2017, 130, 112-123.	5.3	54
36	Modeling and investigation of elasto-plastic behavior of steel-concrete composite frame systems. <i>Journal of Constructional Steel Research</i> , 2011, 67, 1973-1984.	3.9	53

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37	Equivalent Wheel Load Approach for Slender Cable-Stayed Bridge Fatigue Assessment under Traffic and Wind: Feasibility Study. <i>Journal of Bridge Engineering</i> , 2007, 12, 755-764.	2.9	51
38	Piezoelectric-based energy harvesting in bridge systems. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 1414-1428.	2.5	51
39	Fatigue Reliability Assessment for Long-Span Bridges under Combined Dynamic Loads from Winds and Vehicles. <i>Journal of Bridge Engineering</i> , 2013, 18, 735-747.	2.9	50
40	Stiffness and capacity of steel-concrete composite beams with profiled sheeting. <i>Engineering Structures</i> , 2005, 27, 1074-1085.	5.3	49
41	Simulation of Dynamic Effects of Vehicles on Pavement Using a 3D Interaction Model. <i>Journal of Transportation Engineering</i> , 2009, 135, 736-744.	0.9	49
42	Non-stationary random vibration of bridges under vehicles with variable speed. <i>Engineering Structures</i> , 2010, 32, 2166-2174.	5.3	49
43	Numerical prediction of solitary wave forces on a typical coastal bridge deck with girders. <i>Structure and Infrastructure Engineering</i> , 2017, 13, 254-272.	3.7	49
44	A short-term wind speed prediction method utilizing novel hybrid deep learning algorithms to correct numerical weather forecasting. <i>Applied Energy</i> , 2022, 312, 118777.	10.1	49
45	Vehicle-Induced Dynamic Performance of FRP versus Concrete Slab Bridge. <i>Journal of Bridge Engineering</i> , 2006, 11, 410-419.	2.9	48
46	Dynamic analysis of a large span specially shaped hybrid girder bridge with concrete-filled steel tube arches. <i>Engineering Structures</i> , 2016, 106, 243-260.	5.3	48
47	Acoustic emission pattern recognition in CFRP retrofitted RC beams for failure mode identification. <i>Composites Part B: Engineering</i> , 2019, 161, 691-701.	12.0	47
48	Structural Performance of Bridge Approach Slabs under Given Embankment Settlement. <i>Journal of Bridge Engineering</i> , 2005, 10, 482-489.	2.9	46
49	Experimental Study of Magnetorheological Dampers and Application to Cable Vibration Control. <i>JVC/Journal of Vibration and Control</i> , 2006, 12, 67-82.	2.6	44
50	New Connection System for Confined Concrete Columns and Beams. II: Theoretical Modeling. <i>Journal of Structural Engineering</i> , 2008, 134, 1800-1809.	3.4	44
51	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.	3.9	44
52	Cable Vibration Reduction with a Hung-on TMD System. Part I: Theoretical Study. <i>JVC/Journal of Vibration and Control</i> , 2006, 12, 801-814.	2.6	43
53	Microstructure and microhardness property of the interface between a metakaolin/GGBFS-based geopolymer paste and granite aggregate. <i>Construction and Building Materials</i> , 2019, 221, 263-273.	7.2	43
54	Experimental and Analytical Study of Prestressed Steel-Concrete Composite Beams Considering Slip Effect. <i>Journal of Structural Engineering</i> , 2007, 133, 530-540.	3.4	42

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55	A new approach for solving inverse reliability problems with implicit response functions. <i>Engineering Structures</i> , 2007, 29, 71-79.	5.3	39
56	Identification of Dynamic Vehicular Axle Loads: Demonstration by a Field Study. <i>JVC/Journal of Vibration and Control</i> , 2011, 17, 183-195.	2.6	39
57	Vehicle axle identification using wavelet analysis of bridge global responses. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 2830-2840.	2.6	39
58	A coupled wind-vehicle-bridge system and its applications: a review. <i>Wind and Structures, an International Journal</i> , 2015, 20, 117-142.	0.8	39
59	New strategy of substructure method to model long-span hybrid cable-stayed bridges under vehicle-induced vibration. <i>Engineering Structures</i> , 2012, 34, 421-435.	5.3	38
60	Wind Tunnel Study of a Sudden Change of Train Wind Loads due to the Wind Shielding Effects of Bridge Towers and Passing Trains. <i>Journal of Engineering Mechanics - ASCE</i> , 2013, 139, 1249-1259.	2.9	38
61	Lateral Vibration of High-Pier Bridges under Moving Vehicular Loads. <i>Journal of Bridge Engineering</i> , 2011, 16, 400-412.	2.9	36
62	Experimental Research on Fatigue Behavior of RC Beams Strengthened with Steel Plate-Concrete Composite Technique. <i>Journal of Structural Engineering</i> , 2011, 137, 772-781.	3.4	34
63	Predicted and Measured Performance of Prestressed Concrete Bridges. <i>Journal of Bridge Engineering</i> , 2004, 9, 4-13.	2.9	33
64	Experimental study on aerodynamic derivatives of a bridge cross-section under different traffic flows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014, 133, 250-262.	3.9	33
65	Corrosion fatigue analysis of stay cables under combined loads of random traffic and wind. <i>Engineering Structures</i> , 2020, 206, 110153.	5.3	33
66	Effective width of steel-concrete composite beam at ultimate strength state. <i>Engineering Structures</i> , 2008, 30, 1396-1407.	5.3	32
67	Theoretical exploration of a taut cable and a TMD system. <i>Engineering Structures</i> , 2007, 29, 962-972.	5.3	31
68	Nonlinear fatigue damage assessment of existing bridges considering progressively deteriorated road conditions. <i>Engineering Structures</i> , 2013, 56, 1922-1932.	5.3	31
69	An interactive method for the analysis of the simulation of vehicle-bridge coupling vibration using ANSYS and SIMPACK. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2018, 232, 663-679.	2.0	31
70	Load distribution and dynamic response of multi-girder bridges with FRP decks. <i>Engineering Structures</i> , 2007, 29, 1676-1689.	5.3	30
71	Geopolymer-Based Smart Adhesives for Infrastructure Health Monitoring: Concept and Feasibility. <i>Journal of Materials in Civil Engineering</i> , 2011, 23, 100-109.	2.9	30
72	Study of super long span cable-stayed bridges with CFRP components. <i>Engineering Structures</i> , 2011, 33, 330-343.	5.3	30

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73	Destructive Testing of a Decommissioned Reinforced Concrete Bridge. <i>Journal of Bridge Engineering</i> , 2013, 18, 564-569.	2.9	30
74	Nothing-on-road bridge weigh-in-motion considering the transverse position of the vehicle. <i>Structure and Infrastructure Engineering</i> , 2018, 14, 1108-1122.	3.7	30
75	Multiscale simulation of wind field on a long-span bridge site in mountainous area. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 177, 260-274.	3.9	30
76	Analytical and Numerical Modeling of Prestressed Continuous Steel-Concrete Composite Beams. <i>Journal of Structural Engineering</i> , 2011, 137, 1405-1418.	3.4	29
77	Numerical modeling on concrete structures and steel-concrete composite frame structures. <i>Composites Part B: Engineering</i> , 2013, 51, 58-67.	12.0	29
78	Experimental investigation of the bond behavior of the interface between near-surface-mounted CFRP strips and concrete. <i>Construction and Building Materials</i> , 2015, 96, 11-19.	7.2	29
79	Bridge Scour Identification and Field Application Based on Ambient Vibration Measurements of Superstructures. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 121.	2.6	29
80	Effect of Bearing Pads on Precast Prestressed Concrete Bridges. <i>Journal of Bridge Engineering</i> , 2000, 5, 224-232.	2.9	28
81	BRIDGE VIBRATION UNDER VEHICULAR LOADS: TIRE PATCH CONTACT VERSUS POINT CONTACT. <i>International Journal of Structural Stability and Dynamics</i> , 2010, 10, 529-554.	2.4	28
82	Understanding Capacity Rating of Bridges from Load Tests. <i>Practice Periodical on Structural Design and Construction</i> , 2003, 8, 209-216.	1.3	27
83	Coupled vibration control with tuned mass damper for long-span bridges. <i>Journal of Sound and Vibration</i> , 2004, 278, 449-459.	3.9	27
84	Deflection of Cracked RC Beams under Sustained Loading. <i>Journal of Structural Engineering</i> , 2000, 126, 708-716.	3.4	26
85	Cable Vibration Reduction with a Hung-on TMD System, Part II: Parametric Study. <i>JVC/Journal of Vibration and Control</i> , 2006, 12, 881-899.	2.6	26
86	Fatigue Reliability Assessment of Long-Span Steel-Truss Suspension Bridges under the Combined Action of Random Traffic and Wind Loads. <i>Journal of Bridge Engineering</i> , 2020, 25, 04020003.	2.9	26
87	Field Study of Overload Behavior of an Existing Reinforced Concrete Bridge under Simulated Vehicle Loads. <i>Journal of Bridge Engineering</i> , 2011, 16, 226-237.	2.9	25
88	Fatigue life estimation of existing bridges under vehicle and non-stationary hurricane wind. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014, 133, 135-145.	3.9	25
89	A review of wood-frame low-rise building performance study under hurricane winds. <i>Engineering Structures</i> , 2017, 141, 512-529.	5.3	25
90	Time-dependent reliability assessment of aging structures considering stochastic resistance degradation process. <i>Reliability Engineering and System Safety</i> , 2022, 217, 108105.	8.9	25

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91	Experimental and numerical studies of aerodynamic forces on vehicles and bridges. Wind and Structures, an International Journal, 2013, 17, 163-184.	0.8	25
92	Evolution of long-span bridge response to wind-numerical simulation and discussion. Computers and Structures, 2003, 81, 2055-2066.	4.4	24
93	Discussion on AASHTO LRFD Load Distribution Factors for Slab-on-Girder Bridges. Practice Periodical on Structural Design and Construction, 2005, 10, 171-176.	1.3	24
94	Performance of Steel-Concrete Composite Beams under Combined Bending and Torsion. Journal of Structural Engineering, 2009, 135, 1048-1057.	3.4	24
95	From Normal Operation to Evacuation: Single-Vehicle Safety under Adverse Weather, Topographic, and Operational Conditions. Natural Hazards Review, 2009, 10, 68-76.	1.5	24
96	Finite element modeling of bridges with equivalent orthotropic material method for multi-scale dynamic loads. Engineering Structures, 2013, 54, 82-93.	5.3	24
97	Reliability-Based Dynamic Amplification Factor on Stress Ranges for Fatigue Design of Existing Bridges. Journal of Bridge Engineering, 2013, 18, 538-552.	2.9	24
98	Dynamic Response of Railway Vehicles Running on Long-Span Cable-Stayed Bridge Under Uniform Seismic Excitations. International Journal of Structural Stability and Dynamics, 2016, 16, 1550005.	2.4	24
99	New analytical models for power spectral density and coherence function of wind turbulence relative to a moving vehicle under crosswinds. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 188, 384-396.	3.9	24
100	Fatigue analysis of stay cables on the long-span bridges under combined action of traffic and wind. Engineering Structures, 2020, 207, 110212.	5.3	24
101	Wind characteristics and flutter performance of a long-span suspension bridge located in a deep-cutting gorge. Engineering Structures, 2021, 233, 111841.	5.3	24
102	Cable vibration control with a semiactive MR damper-numerical simulation and experimental verification. Structural Engineering and Mechanics, 2010, 34, 611-623.	1.0	24
103	Interface slip effect on bonded plate repairs of concrete beams. Engineering Structures, 2007, 29, 1084-1095.	5.3	23
104	Suppression of Vehicle-induced Bridge Vibration Using Tuned Mass Damper. JVC/Journal of Vibration and Control, 2008, 14, 1037-1054.	2.6	23
105	Deformation Analysis of Prestressed Continuous Steel-Concrete Composite Beams. Journal of Structural Engineering, 2009, 135, 1377-1389.	3.4	23
106	Seismic behavior of composite connections – flexural capacity analysis. Journal of Constructional Steel Research, 2009, 65, 1112-1120.	3.9	23
107	Determination of 18 Flutter Derivatives of Bridge Decks by an Improved Stochastic Search Algorithm. Journal of Bridge Engineering, 2012, 17, 576-588.	2.9	23
108	Wind tunnel tests for mean wind loads on road vehicles. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 150, 15-21.	3.9	22

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109	Non-contact vehicle weighing method based on tire-road contact model and computer vision techniques. <i>Mechanical Systems and Signal Processing</i> , 2022, 174, 109093.	8.0	22
110	Flutter and Buffeting Analysis.â€ŒI: Finite-Element and RPE Solution. <i>Journal of Bridge Engineering</i> , 1999, 4, 174-180.	2.9	21
111	Finite-Element Modeling and Development of Equivalent Properties for FRP Bridge Panels. <i>Journal of Bridge Engineering</i> , 2009, 14, 112-121.	2.9	20
112	Reliability-Based Dynamic Load Allowance for Capacity Rating of Prestressed Concrete Girder Bridges. <i>Journal of Bridge Engineering</i> , 2011, 16, 872-880.	2.9	20
113	Flutter and Buffeting Analysis.â€ŒII: Luling and Deer Isle Bridges. <i>Journal of Bridge Engineering</i> , 1999, 4, 181-188.	2.9	19
114	Experimental and theoretical study of steelâ€œconcrete composite beams with openings in concrete flange. <i>Engineering Structures</i> , 2006, 28, 992-1000.	5.3	19
115	Numerical analysis of recycled aggregate concrete-filled steel tube stub columns. <i>Advances in Structural Engineering</i> , 2016, 19, 717-729.	2.4	19
116	Longitudinal vibration control for a suspension bridge subjected to vehicle braking forces and earthquake excitations based on magnetorheological dampers. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 3659-3678.	2.6	19
117	Prediction of bridge maximum load effects under growing traffic using non-stationary bayesian method. <i>Engineering Structures</i> , 2019, 185, 171-183.	5.3	19
118	A short-term wind speed interval prediction method based on WRF simulation and multivariate line regression for deep learning algorithms. <i>Energy Conversion and Management</i> , 2022, 258, 115540.	9.2	19
119	Crash performance evaluation of a new movable median guardrail on highways. <i>Engineering Structures</i> , 2019, 182, 459-472.	5.3	18
120	Creep performance of concrete-filled steel tubular (CFST) columns and applications to a CFST arch bridge. <i>Steel and Composite Structures</i> , 2015, 19, 111-129.	1.3	18
121	Numerical simulation of the neutral equilibrium atmospheric boundary layer using the SST k- $\epsilon$ turbulence model. <i>Wind and Structures, an International Journal</i> , 2013, 17, 87-105.	0.8	18
122	Study on Stability Improvement of Suspension Bridge with High-Sided Vehicles under Wind using Tuned-Liquid-Damper. <i>JVC/Journal of Vibration and Control</i> , 2008, 14, 711-730.	2.6	17
123	Finite-element modeling framework for predicting realistic responses of light-frame low-rise buildings under wind loads. <i>Engineering Structures</i> , 2018, 164, 53-69.	5.3	17
124	Probability analysis of web cracking of corroded prestressed concrete box-girder bridges considering aleatory and epistemic uncertainties. <i>Engineering Structures</i> , 2021, 228, 111486.	5.3	17
125	Effect of pavement maintenance cycle on the fatigue reliability of simply-supported steel I-girder bridges under dynamic vehicle loading. <i>Engineering Structures</i> , 2017, 133, 124-132.	5.3	16
126	Application of the high-frequency base balance technique to tall slender structures considering the effects of higher modes. <i>Engineering Structures</i> , 2017, 151, 1-10.	5.3	16



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127	Theory and application of new automated concrete curing system. Journal of Building Engineering, 2018, 17, 125-134.	3.4	16
128	A new method for estimating the scale of fluctuation in reliability assessment of reinforced concrete structures considering spatial variability. Advances in Structural Engineering, 2018, 21, 1951-1962.	2.4	16
129	An efficient decoupling dynamic algorithm for coupled multi-spring-systems. Computers and Structures, 2018, 209, 44-56.	4.4	16
130	Thermal behaviors of concrete and steel bridges after slab replacements with GFRP honeycomb sandwich panels. Engineering Structures, 2013, 56, 2041-2051.	5.3	15
131	Effect of unsteady aerodynamic loads on driving safety and comfort of trains running on bridges. Advances in Structural Engineering, 2020, 23, 2898-2910.	2.4	15
132	Impact factors of bridges in service under stochastic traffic flow and road surface progressive deterioration. Advances in Structural Engineering, 2016, 19, 38-52.	2.4	14
133	Parametric study of an integral abutment bridge supported by prestressed precast concrete piles. Engineering Structures, 2016, 120, 37-48.	5.3	14
134	A novel decoupling dynamic method with third-order accuracy and controllable dissipation. Computers and Structures, 2021, 249, 106512.	4.4	14
135	Effect of Diaphragms on Load Distribution of Prestressed Concrete Bridges. Transportation Research Record, 2002, 1814, 47-54.	1.9	13
136	Wind-Induced Internal Pressures of Buildings with Multiple Openings. Journal of Engineering Mechanics - ASCE, 2013, 139, 376-385.	2.9	13
137	Numerical analysis on the difference of drag force coefficients of bridge deck sections between the global force and pressure distribution methods. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 159, 65-79.	3.9	13
138	Nonlinear dynamic performance of long-span cable-stayed bridge under traffic and wind. Wind and Structures, an International Journal, 2015, 20, 249-274.	0.8	13
139	Global reliability analysis of running safety of a train traversing a bridge under crosswinds. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 224, 104979.	3.9	13
140	Energy Dissipation and Vibration Control: Modeling, Algorithm, and Devices. Applied Sciences (Switzerland), 2017, 7, 801.	2.5	12
141	Progressive failure analysis of low-rise timber buildings under extreme wind events using a DAD approach. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 182, 101-114.	3.9	12
142	Experimental investigation on post-flutter characteristics of a typical steel-truss suspension bridge deck. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 216, 104724.	3.9	12
143	Optimal variables of TMDs for multi-mode buffeting control of long-span bridges. Wind and Structures, an International Journal, 2003, 6, 387-402.	0.8	12
144	Refined damage prediction of low-rise building envelope under high wind load. Wind and Structures, an International Journal, 2014, 18, 669-691.	0.8	12

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145	Modal coupling assessment and approximated prediction of coupled multimode wind vibration of long-span bridges. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2004, 92, 393-412.	3.9	11
146	Mechanical behavior of composite joints for connecting existing concrete bridges and steel-concrete composite beams. <i>Journal of Constructional Steel Research</i> , 2012, 75, 11-20.	3.9	11
147	Experimental and Numerical Studies of Nonstationary Random Vibrations for a High-Pier Bridge under Vehicular Loads. <i>Journal of Bridge Engineering</i> , 2013, 18, 1005-1020.	2.9	11
148	Estimation of extreme structural response distributions for mean recurrence intervals based on short-term monitoring. <i>Engineering Structures</i> , 2016, 126, 121-132.	5.3	11
149	Prediction of Extreme Traffic Load Effects of Bridges Using Bayesian Method and Application to Bridge Condition Assessment. <i>Journal of Bridge Engineering</i> , 2019, 24, .	2.9	11
150	Flutter derivatives based random parametric excitation aerodynamic analysis. <i>Computers and Structures</i> , 2000, 75, 463-477.	4.4	10
151	Probabilistic Response Analysis of Cracked Prestressed Concrete Beams. <i>Advances in Structural Engineering</i> , 2007, 10, 1-10.	2.4	10
152	Development of Fiber Optic Acoustic Emission Sensors for Applications in Civil Infrastructures. <i>Advances in Structural Engineering</i> , 2012, 15, 1471-1486.	2.4	10
153	A new type of steel-concrete composite channel girder and its preliminary experimental study. <i>Journal of Constructional Steel Research</i> , 2013, 85, 163-177.	3.9	10
154	Identification of Bridge Scour Depth by Tracing Dynamic Behaviors of Superstructures. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 1316-1327.	1.9	10
155	Time-domain simulations of turbulence effects on the aerodynamic flutter of long-span bridges. <i>Advances in Bridge Engineering</i> , 2020, 1, .	1.9	10
156	The influence of vehicles on the flutter stability of a long-span suspension bridge. <i>Wind and Structures, an International Journal</i> , 2015, 20, 275-292.	0.8	10
157	Estimation of cable safety factors of suspension bridges using artificial neural network-based inverse reliability method. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 70, 1112-1133.	2.8	9
158	Concept and analysis of stay cables with a CFRP and steel composite section. <i>KSCE Journal of Civil Engineering</i> , 2012, 16, 107-117.	1.9	9
159	Field Test and Finite-Element Modeling of a Three-Span Continuous-Girder Bridge. <i>Journal of Performance of Constructed Facilities</i> , 2014, 28, 136-148.	2.0	9
160	Investigation of the longitudinal wind power spectra at the gorge terrain. <i>Advances in Structural Engineering</i> , 2017, 20, 1768-1783.	2.4	9
161	A novel method for determining the spatial responses of a cable-stayed bridge with four cable-planes. <i>Engineering Structures</i> , 2019, 180, 223-233.	5.3	9
162	Experimental investigation of the vortex-induced vibration of tapered light poles. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 211, 104555.	3.9	9

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163	Unified approach to predict the dynamic performance of transportation system considering wind effects. <i>Structural Engineering and Mechanics</i> , 2006, 23, 279-292.	1.0	9
164	Acoustic emission monitoring of damage progression in CFRP retrofitted RC beams. <i>Structural Monitoring and Maintenance</i> , 2014, 1, 111-130.	1.7	9
165	Flutter stability of a long-span suspension bridge during erection. <i>Wind and Structures, an International Journal</i> , 2015, 21, 41-61.	0.8	9
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