Steve Cs Cai

List of Publications by Year
in descending order

223	7,292	53794 45	82547 72
papers	citations	h-index	g-index

224	224	224	4095
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Time-dependent reliability assessment of aging structures considering stochastic resistance degradation process. Reliability Engineering and System Safety, 2022, 217, 108105.	8.9	25
2	Continuous monitoring of in-service performance of prestressed concrete continuous bridges with two strengthening measures. Construction and Building Materials, 2022, 321, 126311.	7.2	3
3	A short-term wind speed interval prediction method based on WRF simulation and multivariate line regression for deep learning algorithms. Energy Conversion and Management, 2022, 258, 115540.	9.2	19
4	A short-term wind speed prediction method utilizing novel hybrid deep learning algorithms to correct numerical weather forecasting. Applied Energy, 2022, 312, 118777.	10.1	49
5	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
6	Non-contact vehicle weighing method based on tire-road contact model and computer vision techniques. Mechanical Systems and Signal Processing, 2022, 174, 109093.	8.0	22
7	Probability analysis of web cracking of corroded prestressed concrete box-girder bridges considering aleatory and epistemic uncertainties. Engineering Structures, 2021, 228, 111486.	5.3	17
8	A Novel Canopy Drag Coefficient Model for Analyzing Urban Wind Environments Based on the Large Eddy Simulation. Energies, 2021, 14, 796.	3.1	1
9	The dynamic amplification factors for continuous beam bridges along high-speed railways. Advances in Structural Engineering, 2021, 24, 2542-2554.	2.4	2
10	Experimental investigation of the vortex-induced vibration of tapered light poles. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 211, 104555.	3.9	9
11	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
12	Timeâ€“Frequency Random Approach for Prediction of Subway Train-Induced Tunnel and Ground Vibrations. International Journal of Structural Stability and Dynamics, 2021, 21, 2150101.	2.4	8
13	A novel decoupling dynamic method with third-order accuracy and controllable dissipation. Computers and Structures, 2021, 249, 106512.	4.4	14
14	Feasibility study of MK-based geopolymer binder for RAC applications: Effects of silica fume and added CaO on compressive strength of mortar samples. Case Studies in Construction Materials, 2021, 14, e00500.	1.7	4
15	Fatigue damage prognosis of steel bridges under traffic loading using a time-based crack growth method. Engineering Structures, 2021, 237, 112162.	5.3	8
16	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
17	Experimental Study on the Spanwise Correlation of Vortex-Induced Force Using Large-Scale Section Model. Shock and Vibration, 2021, 2021, 1-14.	0.6	1
18	The Theoretical Impact Factor Spectrum for Highway Beam Bridges. Journal of Bridge Engineering, 2021, 26, .	2.9	6

#	Article	IF	Citations
19	Corrosion fatigue analysis of stay cables under combined loads of random traffic and wind. Engineering Structures, 2020, 206, 110153.	5.3	33
20	Fatigue Reliability Assessment of Long-Span Steel-Truss Suspension Bridges under the Combined Action of Random Traffic and Wind Loads. Journal of Bridge Engineering, 2020, 25, 04020003.	2.9	26
21	Comparative assessment of mechanical properties of HPS between electrochemical corrosion and spray corrosion. Construction and Building Materials, 2020, 237, 117735.	7.2	56
22	Strengthening of steel decks for cable-stayed bridge using ultra-high performance concrete: A case study. Advances in Structural Engineering, 2020, 23, 3373-3384.	2.4	8
23	Stress-Level Buffeting Analysis and Wind Turbulence Intensity Effects on Fatigue Damage of Long-Span Bridges. Journal of Aerospace Engineering, 2020, 33, 04020074.	1.4	4
24	Time-domain simulations of turbulence effects on the aerodynamic flutter of long-span bridges. Advances in Bridge Engineering, 2020, 1, .	1.9	10
25	Experimental Study on Chloride Ion Diffusion in Concrete under Uniaxial and Biaxial Sustained Stress. Materials, 2020, 13, 5717.	2.9	7
26	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
27	Editorial for Special Issue â€œEnergy Dissipation and Vibration Control: Materials, Modeling, Algorithm, and Devicesâ€• Applied Sciences (Switzerland), 2020, 10, 572.	2.5	1
28	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
29	Flexural behavior of corroded HPS beams. Engineering Structures, 2019, 195, 274-287.	5.3	67
30	Microstructure and microhardness property of the interface between a metakaolin/GGBFS-based geopolymer paste and granite aggregate. Construction and Building Materials, 2019, 221, 263-273.	7.2	43
31	Acoustic emission pattern recognition in CFRP retrofitted RC beams for failure mode identification. Composites Part B: Engineering, 2019, 161, 691-701.	12.0	47
32	Bridge Scour Identification and Field Application Based on Ambient Vibration Measurements of Superstructures. Journal of Marine Science and Engineering, 2019, 7, 121.	2.6	29
33	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
34	Prediction of bridge maximum load effects under growing traffic using non-stationary bayesian method. Engineering Structures, 2019, 185, 171-183.	5.3	19
35	Mechanical properties and microstructure of graphene oxide cement-based composites. Construction and Building Materials, 2019, 194, 102-109.	7.2	140
36	A novel method for determining the spatial responses of a cable-stayed bridge with four cable-planes. Engineering Structures, 2019, 180, 223-233.	5.3	9

#	Article	IF	Citations
37	Crash performance evaluation of a new movable median guardrail on highways. Engineering Structures, 2019, 182, 459-472.	5.3	18
38	Prediction of Extreme Traffic Load Effects of Bridges Using Bayesian Method and Application to Bridge Condition Assessment. Journal of Bridge Engineering, 2019, 24, .	2.9	11
39	Influence of cracks on chloride diffusivity in concrete: A five-phase mesoscale model approach. Construction and Building Materials, 2019, 197, 587-596.	7.2	127
40	Theory and application of new automated concrete curing system. Journal of Building Engineering, 2018, 17, 125-134.	3.4	16
41	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
42	Finite-element modeling framework for predicting realistic responses of light-frame low-rise buildings under wind loads. Engineering Structures, 2018, 164, 53-69.	5.3	17
43	An interactive method for the analysis of the simulation of vehicleâ€“bridge coupling vibration using ANSYS and SIMPACK. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 663-679.	2.0	31
44	Identification of Bridge Scour Depth by Tracing Dynamic Behaviors of Superstructures. KSCE Journal of Civil Engineering, 2018, 22, 1316-1327.	1.9	10
45	Mechanical and thermal properties of fly ash based geopolymers. Construction and Building Materials, 2018, 160, 66-81.	7.2	152
46	Nothing-on-road bridge weigh-in-motion considering the transverse position of the vehicle. Structure and Infrastructure Engineering, 2018, 14, 1108-1122.	3.7	30
47	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
48	An efficient decoupling dynamic algorithm for coupled multi-spring-systems. Computers and Structures, 2018, 209, 44-56.	4.4	16
49	Numerical Assessment of the Wave Loads on Coastal Twin Bridge Decks under Stokes Waves. Journal of Coastal Research, 2018, 34, 628.	0.3	5
50	Multiscale simulation of wind field on a long-span bridge site in mountainous area. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 177, 260-274.	3.9	30
51	Local impact analysis for deck slabs of prestressed concrete box-girder bridges subject to vehicle loading. JVC/Journal of Vibration and Control, 2017, 23, 31-45.	2.6	8
52	Vehicle axle identification using wavelet analysis of bridge global responses. JVC/Journal of Vibration and Control, 2017, 23, 2830-2840.	2.6	39
53	Numerical prediction of solitary wave forces on a typical coastal bridge deck with girders. Structure and Infrastructure Engineering, 2017, 13, 254-272.	3.7	49
54	Driving effects of vehicle-induced vibration on long-span suspension bridges. Structural Control and Health Monitoring, 2017, 24, e1873.	4.0	5

#	Article	IF	Citations
55	Investigation of the longitudinal wind power spectra at the gorge terrain. Advances in Structural Engineering, 2017, 20, 1768-1783.	2.4	9
56	A review of wood-frame low-rise building performance study under hurricane winds. Engineering Structures, 2017, 141, 512-529.	5.3	25
57	Effect of pavement maintenance cycle on the fatigue reliability of simply-supported steel I-girder bridges under dynamic vehicle loading. Engineering Structures, 2017, 133, 124-132.	5.3	16
58	Wind tunnel tests on the characteristics of wind fields over a simplified gorge. Advances in Structural Engineering, 2017, 20, 1599-1611.	2.4	5
59	Application of the high-frequency base balance technique to tall slender structures considering the effects of higher modes. Engineering Structures, 2017, 151, 1-10.	5.3	16
60	Numerical investigation of the lateral restraining stiffness effect on the bridge deck-wave interaction under Stokes waves. Engineering Structures, 2017, 130, 112-123.	5.3	54
61	The State-of-the-Art on Framework of Vibration-Based Structural Damage Identification for Decision Making. Applied Sciences (Switzerland), 2017, 7, 497.	2.5	114
62	Energy Dissipation and Vibration Control: Modeling, Algorithm, and Devices. Applied Sciences (Switzerland), 2017, 7, 801.	2.5	12
63	LES of wind environments in urban residential areas based on an inflow turbulence generating approach. Wind and Structures, an International Journal, 2017, 24, 1-24.	0.8	6
64	Numerical analysis of recycled aggregate concrete-filled steel tube stub columns. Advances in Structural Engineering, 2016, 19, 717-729.	2.4	19
65	Experimental study of flexural fatigue performance of reinforced concrete beams strengthened with prestressed CFRP plates. Engineering Structures, 2016, 127, 62-72.	5.3	68
66	Estimation of extreme structural response distributions for mean recurrence intervals based on short-term monitoring. Engineering Structures, 2016, 126, 121-132.	5.3	11
67	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
68	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
69	Parametric study of an integral abutment bridge supported by prestressed precast concrete piles. Engineering Structures, 2016, 120, 37-48.	5.3	14
70	State-of-the-art review on bridge weigh-in-motion technology. Advances in Structural Engineering, 2016, 19, 1514-1530.	2.4	164
71	Longitudinal vibration control for a suspension bridge subjected to vehicle braking forces and earthquake excitations based on magnetorheological dampers. JVC/Journal of Vibration and Control, 2016, 22, 3659-3678.	2.6	19
72	Wind tunnel tests for mean wind loads on road vehicles. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 150, 15-21.	3.9	22

#	Article	IF	Citations
73	Three-Dimensional Vibrations of a Suspension Bridge Under Stochastic Traffic Flows and Road Roughness. International Journal of Structural Stability and Dynamics, 2016, 16, 1550038.	2.4	8
74	Dynamic analysis of a large span specially shaped hybrid girder bridge with concrete-filled steel tube arches. Engineering Structures, 2016, 106, 243-260.	5.3	48
75	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
76	Ride comfort of the bridge-traffic-wind coupled system considering bridge surface deterioration. Wind and Structures, an International Journal, 2016, 23, 19-43.	0.8	8
77	Calculation on Ultimate Axial Bearing Capacity of Concrete-Filled Square Steel Tubular Column with Spiral Stirrups. Journal of Computational and Theoretical Nanoscience, 2016, 13, 1422-1425.	0.4	2
78	Wind tunnel tests of 3D wind loads on tall buildings based on torsional motion-induced vibrations. Wind and Structures, an International Journal, 2016, 23, 231-251.	0.8	1
79	A Probabilistic Model for the Flexural Capacity of Reinforced Concrete Structures Strengthened with Prestressed CFRP Plates. Advances in Structural Engineering, 2015, 18, 629-642.	2.4	4
80	Analytical solution on highway U-shape bridges using isotropic plate theory. KSCE Journal of Civil Engineering, 2015, 19, 1852-1864.	1.9	4
81	Application of Snapshot POD Analysis in Extracting Flow Structures around Bridge Decks. Advances in Structural Engineering, 2015, 18, 803-815.	2.4	0
82	Numerical simulations of lateral restraining stiffness effect on bridge deckâ€“wave interaction under solitary waves. Engineering Structures, 2015, 101, 337-351.	5.3	60
83	Field monitoring study of an integral abutment bridge supported by prestressed precast concrete piles on soft soils. Engineering Structures, 2015, 104, 18-31.	5.3	7
84	Experimental investigation of the bond behavior of the interface between near-surface-mounted CFRP strips and concrete. Construction and Building Materials, 2015, 96, 11-19.	7.2	29
85	Creep performance of concrete-filled steel tubular (CFST) columns and applications to a CFST arch bridge. Steel and Composite Structures, 2015, 19, 111-129.	1.3	18
86	A coupled wind-vehicle-bridge system and its applications: a review. Wind and Structures, an International Journal, 2015, 20, 117-142.	0.8	39
87	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
88	The influence of vehicles on the flutter stability of a long-span suspension bridge. Wind and Structures, an International Journal, 2015, 20, 275-292.	0.8	10
89	Flutter stability of a long-span suspension bridge during erection. Wind and Structures, an International Journal, 2015, 21, 41-61.	0.8	9
90	A combined control strategy for vibration mitigations of a suspension bridge induced by vehicle braking force. Baltic Journal of Road and Bridge Engineering, 2015, 10, 118-125.	0.8	2

#	Article	IF	Citations
91	Field Test and Finite-Element Modeling of a Three-Span Continuous-Girder Bridge. Journal of Performance of Constructed Facilities, 2014, 28, 136-148.	2.0	9
92	Experimental study on aerodynamic derivatives of a bridge cross-section under different traffic flows. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 133, 250-262.	3.9	33
93	The use of carbon fiber-reinforced polymer (CFRP) composites for cable-stayed bridges. , 2014, , 210-264.		3
94	Effects of aerodynamic parameters on the dynamic responses of road vehicles and bridges under cross winds. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 134, 78-95.	3.9	44
95	Thermal property analysis and applications of GFRP panels to integral abutment bridges. Engineering Structures, 2014, 76, 1-9.	5.3	8
96	An experimental study on reinforced concrete beams strengthened with prestressed near surface mounted CFRP strips. Engineering Structures, 2014, 79, 222-233.	5.3	89
97	Fatigue life estimation of existing bridges under vehicle and non-stationary hurricane wind. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 133, 135-145.	3.9	25
98	Piezoelectric-based energy harvesting in bridge systems. Journal of Intelligent Material Systems and Structures, 2014, 25, 1414-1428.	2.5	51
99	Calibrated Finite Element Modeling of Creep Behavior of Prestressed Concrete Bridge Girders. ACI Structural Journal, 2014, 111, .	0.2	4
100	Acoustic emission monitoring of damage progression in CFRP retrofitted RC beams. Structural Monitoring and Maintenance, 2014, 1, 111-130.	1.7	9
101	Investigations on coefficient of variation of extreme wind speed. Wind and Structures, an International Journal, 2014, 18, 633-650.	0.8	3
102	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
103	Finite element modeling of bridges with equivalent orthotropic material method for multi-scale dynamic loads. Engineering Structures, 2013, 54, 82-93.	5.3	24
104	Thermal behaviors of concrete and steel bridges after slab replacements with GFRP honeycomb sandwich panels. Engineering Structures, 2013, 56, 2041-2051.	5.3	15
105	A new type of steelâ€“concrete composite channel girder and its preliminary experimental study. Journal of Constructional Steel Research, 2013, 85, 163-177.	3.9	10
106	Nonlinear fatigue damage assessment of existing bridges considering progressively deteriorated road conditions. Engineering Structures, 2013, 56, 1922-1932.	5.3	31
107	Destructive Testing of a Decommissioned Reinforced Concrete Bridge. Journal of Bridge Engineering, 2013, 18, 564-569.	2.9	30
108	Numerical modeling on concrete structures and steelâ€“concrete composite frame structures. Composites Part B: Engineering, 2013, 51, 58-67.	12.0	29

#	Article	IF	Citations
109	Mechanical and Thermal Performance of Coextruded Wood Plastic Composites for Structural Applications. Advances in Structural Engineering, 2013, 16, 909-929.	2.4	8
110	Analysis Strategy and Parametric Study of Cable-Stayed-Suspension Bridges. Advances in Structural Engineering, 2013, 16, 1081-1102.	2.4	7
111	Evaluating Wind Loads on Bridge Decks Using Velocity Fields. Journal of Engineering Mechanics - ASCE, 2013, 139, 339-346.	2.9	7
112	Experimental and Numerical Studies of Nonstationary Random Vibrations for a High-Pier Bridge under Vehicular Loads. Journal of Bridge Engineering, 2013, 18, 1005-1020.	2.9	11
113	Wind Tunnel Study of a Sudden Change of Train Wind Loads due to the Wind Shielding Effects of Bridge Towers and Passing Trains. Journal of Engineering Mechanics - ASCE, 2013, 139, 1249-1259.	2.9	38
114	Wind-Induced Internal Pressures of Buildings with Multiple Openings. Journal of Engineering Mechanics - ASCE, 2013, 139, 376-385.	2.9	13
115	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
116	Fatigue Reliability Assessment for Long-Span Bridges under Combined Dynamic Loads from Winds and Vehicles. Journal of Bridge Engineering, 2013, 18, 735-747.	2.9	50
117	Temperature distribution behaviors of GFRP honeycomb hollow section sandwich panels. Structural Engineering and Mechanics, 2013, 47, 623-641.	1.0	5
118	Mechanical performance and design optimization of rib-stiffened super-wide bridge deck with twin box girders in concrete. Structural Engineering and Mechanics, 2013, 48, 395-414.	1.0	2
119	Numerical simulation of the neutral equilibrium atmospheric boundary layer using the SST k-ï‰ turbulence model. Wind and Structures, an International Journal, 2013, 17, 87-105.	0.8	18
120	Experimental and numerical studies of aerodynamic forces on vehicles and bridges. Wind and Structures, an International Journal, 2013, 17, 163-184.	0.8	25
121	Impact factors of an old bridge under moving vehicular loads. Structural Engineering and Mechanics, 2013, 46, 353-370.	1.0	0
122	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
123	Development of Fiber Optic Acoustic Emission Sensors for Applications in Civil Infrastructures. Advances in Structural Engineering, 2012, 15, 1471-1486.	2.4	10
124	Fatigue Reliability Assessment for Existing Bridges Considering Vehicle Speed and Road Surface Conditions. Journal of Bridge Engineering, 2012, 17, 443-453.	2.9	78
125	New strategy of substructure method to model long-span hybrid cable-stayed bridges under vehicle-induced vibration. Engineering Structures, 2012, 34, 421-435.	5.3	38
126	A stress-development prediction method and its application to stress assessment of existing bridges. Engineering Structures, 2012, 38, 113-122.	5.3	3

#	Article	IF	Citations
127	Seismic behavior of ring beam joints between concrete-filled twin steel tubes columns and reinforced concrete beams. Engineering Structures, 2012, 39, 1-10.	5.3	75
128	Elastic rigidity of composite beams with full width slab openings. Journal of Constructional Steel Research, 2012, 73, 43-54.	3.9	7
129	Mechanical behavior of composite joints for connecting existing concrete bridges and steelâ€“concrete composite beams. Journal of Constructional Steel Research, 2012, 75, 11-20.	3.9	11
130	Concept and analysis of stay cables with a CFRP and steel composite section. KSCE Journal of Civil Engineering, 2012, 16, 107-117.	1.9	9
131	Design strategy of hybrid stay cable system using CFRP and steel materials. Steel and Composite Structures, 2012, 13, 47-70.	1.3	2
132	Experimental Research on Fatigue Behavior of RC Beams Strengthened with Steel Plate-Concrete Composite Technique. Journal of Structural Engineering, 2011, 137, 772-781.	3.4	34
133	Analytical and Numerical Modeling of Prestressed Continuous Steel-Concrete Composite Beams. Journal of Structural Engineering, 2011, 137, 1405-1418.	3.4	29
134	Overview of Potential and Existing Applications of Shape Memory Alloys in Bridges. Journal of Bridge Engineering, 2011, 16, 305-315.	2.9	62
135	Geopolymer-Based Smart Adhesives for Infrastructure Health Monitoring: Concept and Feasibility. Journal of Materials in Civil Engineering, 2011, 23, 100-109.	2.9	30
136	Study of super long span cable-stayed bridges with CFRP components. Engineering Structures, 2011, 33, 330-343.	5.3	30
137	Modeling and investigation of elasto-plastic behavior of steelâ€“concrete composite frame systems. Journal of Constructional Steel Research, 2011, 67, 1973-1984.	3.9	53
138	Lateral Vibration of High-Pier Bridges under Moving Vehicular Loads. Journal of Bridge Engineering, 2011, 16, 400-412.	2.9	36
139	Field Study of Overload Behavior of an Existing Reinforced Concrete Bridge under Simulated Vehicle Loads. Journal of Bridge Engineering, 2011, 16, 226-237.	2.9	25
140	Study of Dynamic Impacts on Transmission-Line Systems Attributable to Conductor Breakage Using the Finite-Element Method. Journal of Performance of Constructed Facilities, 2011, 25, 130-137.	2.0	6
141	Identification of Dynamic Vehicular Axle Loads: Demonstration by a Field Study. JVC/Journal of Vibration and Control, 2011, 17, 183-195.	2.6	39
142	Reliability-Based Dynamic Load Allowance for Capacity Rating of Prestressed Concrete Girder Bridges. Journal of Bridge Engineering, 2011, 16, 872-880.	2.9	20
143	Equivalent stiffness method for nonlinear analysis of stay cables. Structural Engineering and Mechanics, 2011, 39, 661-667.	1.0	1
144	Methodology of Long-Term Real-Time Condition Assessment for Existing Cable-Stayed Bridges. Advances in Structural Engineering, 2010, 13, 111-125.	2.4	8

#	Article	IF	Citations
145	Acoustic emission monitoring of bridges: Review and case studies. Engineering Structures, 2010, 32, 1704-1714.	5.3	446
146	Development of dynamic impact factor for performance evaluation of existing multi-girder concrete bridges. Engineering Structures, 2010, 32, 21-31.	5.3	169
147	Non-stationary random vibration of bridges under vehicles with variable speed. Engineering Structures, 2010, 32, 2166-2174.	5.3	49
148	Identification of Dynamic Vehicular Axle Loads: Theory and Simulations. JVC/Journal of Vibration and Control, 2010, 16, 2167-2194.	2.6	68
149	BRIDGE VIBRATION UNDER VEHICULAR LOADS: TIRE PATCH CONTACT VERSUS POINT CONTACT. International Journal of Structural Stability and Dynamics, 2010, 10, 529-554.	2.4	28
150	Bridge Model Updating Using Response Surface Method and Genetic Algorithm. Journal of Bridge Engineering, 2010, 15, 553-564.	2.9	136
151	Bridge Scour: Prediction, Modeling, Monitoring, and Countermeasuresâ€"Review. Practice Periodical on Structural Design and Construction, 2010, 15, 125-134.	1.3	140
152	Cable vibration control with a semiactive MR damper-numerical simulation and experimental verification. Structural Engineering and Mechanics, 2010, 34, 611-623.	1.0	24
153	Performance of Steel-Concrete Composite Beams under Combined Bending and Torsion. Journal of Structural Engineering, 2009, 135, 1048-1057.	3.4	24
154	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
155	Simulation of Dynamic Effects of Vehicles on Pavement Using a 3D Interaction Model. Journal of Transportation Engineering, 2009, 135, 736-744.	0.9	49
156	Deformation Analysis of Prestressed Continuous Steel-Concrete Composite Beams. Journal of Structural Engineering, 2009, 135, 1377-1389.	3.4	23
157	Finite-Element Modeling and Development of Equivalent Properties for FRP Bridge Panels. Journal of Bridge Engineering, 2009, 14, 112-121.	2.9	20
158	Seismic behavior of composite connections â€" flexural capacity analysis. Journal of Constructional Steel Research, 2009, 65, 1112-1120.	3.9	23
159	Identification of parameters of vehicles moving on bridges. Engineering Structures, 2009, 31, 2474-2485.	5.3	83
160	Comparison of deck-anchored damper and clipped tuned mass damper on cable vibration reduction. Structural Engineering and Mechanics, 2009, 32, 741-754.	1.0	8
161	Seismic behavior of connections composed of CFSSTCs and steelâ€"concrete composite beams â€" finite element analysis. Journal of Constructional Steel Research, 2008, 64, 680-688.	3.9	59
162	Seismic behavior of connections composed of CFSSTCs and steelâ€"concrete composite beamsâ€"experimental study. Journal of Constructional Steel Research, 2008, 64, 1178-1191.	3.9	102

#	Article	IF	Citations
163	Experimental study of partially shear-connected composite beams with profiled sheeting. Engineering Structures, 2008, 30, 1-12.	5.3	69
164	Effective width of steelâ€“concrete composite beam at ultimate strength state. Engineering Structures, 2008, 30, 1396-1407.	5.3	32
165	New Connection System for Confined Concrete Columns and Beams. I: Experimental Study. Journal of Structural Engineering, 2008, 134, 1787-1799.	3.4	78
166	New Connection System for Confined Concrete Columns and Beams. II: Theoretical Modeling. Journal of Structural Engineering, 2008, 134, 1800-1809.	3.4	44
167	Study on Stability Improvement of Suspension Bridge with High-Sided Vehicles under Wind using Tuned-Liquid-Damper. JVC/Journal of Vibration and Control, 2008, 14, 711-730.	2.6	17
168	Suppression of Vehicle-induced Bridge Vibration Using Tuned Mass Damper. JVC/Journal of Vibration and Control, 2008, 14, 1037-1054.	2.6	23
169	Vehicle Induced Dynamic Behavior of Short-Span Slab Bridges Considering Effect of Approach Slab Condition. Journal of Bridge Engineering, 2008, 13, 83-92.	2.9	73
170	Survey of Short- and Medium-Span Bridge Damage Induced by Hurricane Katrina. Journal of Bridge Engineering, 2008, 13, 377-387.	2.9	69
171	Diaphragm Effects of Prestressed Concrete Girder Bridges: Review and Discussion. Practice Periodical on Structural Design and Construction, 2007, 12, 161-167.	1.3	8
172	Equivalent Wheel Load Approach for Slender Cable-Stayed Bridge Fatigue Assessment under Traffic and Wind: Feasibility Study. Journal of Bridge Engineering, 2007, 12, 755-764.	2.9	51
173	Experimental and Analytical Study of Prestressed Steelâ€“Concrete Composite Beams Considering Slip Effect. Journal of Structural Engineering, 2007, 133, 530-540.	3.4	42
174	Probabilistic Response Analysis of Cracked Prestressed Concrete Beams. Advances in Structural Engineering, 2007, 10, 1-10.	2.4	10
175	Cable Vibration Control with a TMD-MR Damper System: Experimental Exploration. Journal of Structural Engineering, 2007, 133, 629-637.	3.4	54
176	Estimation of cable safety factors of suspension bridges using artificial neural network-based inverse reliability method. International Journal for Numerical Methods in Engineering, 2007, 70, 1112-1133.	2.8	9
177	A new approach for solving inverse reliability problems with implicit response functions. Engineering Structures, 2007, 29, 71-79.	5.3	39
178	Understand and improve dynamic performance of transportation system â€” a case study of Luling Bridge. Engineering Structures, 2007, 29, 1043-1051.	5.3	7
179	Effect of approach span condition on vehicle-induced dynamic response of slab-on-girder road bridges. Engineering Structures, 2007, 29, 3210-3226.	5.3	65
180	Experimental behavior of circular concrete-filled steel tube stub columns. Journal of Constructional Steel Research, 2007, 63, 165-174.	3.9	178

#	Article	IF	Citations
181	Theoretical exploration of a taut cable and a TMD system. Engineering Structures, 2007, 29, 962-972.	5.3	31
182	Interface slip effect on bonded plate repairs of concrete beams. Engineering Structures, 2007, 29, 1084-1095.	5.3	23
183	Load distribution and dynamic response of multi-girder bridges with FRP decks. Engineering Structures, 2007, 29, 1676-1689.	5.3	30
184	Applications of fiber optic sensors in civil engineering. Structural Engineering and Mechanics, 2007, 25, 577-596.	1.0	57
185	Application of artificial neural networks to the response prediction of geometrically nonlinear truss structures. Structural Engineering and Mechanics, 2007, 26, 251-262.	1.0	6
186	Experimental and theoretical study of steelâ€“concrete composite beams with openings in concrete flange. Engineering Structures, 2006, 28, 992-1000.	5.3	19
187	Experimental Study of Magnetorheological Dampers and Application to Cable Vibration Control. JVC/Journal of Vibration and Control, 2006, 12, 67-82.	2.6	44
188	Vehicle-Induced Dynamic Performance of FRP versus Concrete Slab Bridge. Journal of Bridge Engineering, 2006, 11, 410-419.	2.9	48
189	Cable Vibration Reduction with a Hung-on TMD System, Part II: Parametric Study. JVC/Journal of Vibration and Control, 2006, 12, 881-899.	2.6	26
190	Cable Vibration Reduction with a Hung-on TMD System. Part I: Theoretical Study. JVC/Journal of Vibration and Control, 2006, 12, 801-814.	2.6	43
191	Unified approach to predict the dynamic performance of transportation system considering wind effects. Structural Engineering and Mechanics, 2006, 23, 279-292.	1.0	9
192	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
193	Stiffness and capacity of steelâ€“concrete composite beams with profiled sheeting. Engineering Structures, 2005, 27, 1074-1085.	5.3	49
194	Flutter reliability analysis of suspension bridges. Journal of Wind Engineering and Industrial Aerodynamics, 2005, 93, 757-775.	3.9	65
195	Structural Performance of Bridge Approach Slabs under Given Embankment Settlement. Journal of Bridge Engineering, 2005, 10, 482-489.	2.9	46
196	Framework of vehicleâ€“bridgeâ€“wind dynamic analysis. Journal of Wind Engineering and Industrial Aerodynamics, 2004, 92, 579-607.	3.9	196
197	Wind vibration mitigation of long-span bridges in hurricanes. Journal of Sound and Vibration, 2004, 274, 421-432.	3.9	8
198	Coupled vibration control with tuned mass damper for long-span bridges. Journal of Sound and Vibration, 2004, 278, 449-459.	3.9	27

#	Article	IF	Citations
199	Modal coupling assessment and approximated prediction of coupled multimode wind vibration of long-span bridges. Journal of Wind Engineering and Industrial Aerodynamics, 2004, 92, 393-412.	3.9	11
200	Accident assessment of vehicles on long-span bridges in windy environments. Journal of Wind Engineering and Industrial Aerodynamics, 2004, 92, 991-1024.	3.9	125
201	Stiffness and Deflection of Steelâ€"Concrete Composite Beams under Negative Bending. Journal of Structural Engineering, 2004, 130, 1842-1851.	3.4	80
202	Predicted and Measured Performance of Prestressed Concrete Bridges. Journal of Bridge Engineering, 2004, 9, 4-13.	2.9	33
203	Structural Performance of Fiber-Reinforced Polymer Honeycomb Sandwich Panels: Evaluation of Size Effect and Wrap Strengthening. Transportation Research Record, 2003, 1845, 191-199.	1.9	4
204	Evolution of long-span bridge response to wind-numerical simulation and discussion. Computers and Structures, 2003, 81, 2055-2066.	4.4	24
205	Steelâ€"Concrete Composite Beams Considering Shear Slip Effects. Journal of Structural Engineering, 2003, 129, 495-506.	3.4	200
206	Understanding Capacity Rating of Bridges from Load Tests. Practice Periodical on Structural Design and Construction, 2003, 8, 209-216.	1.3	27
207	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
208	Effect of Diaphragms on Load Distribution of Prestressed Concrete Bridges. Transportation Research Record, 2002, 1814, 47-54.	1.9	13
209	Three-Dimensional Strut-and-Tie Analysis for Footing Rehabilitation. Practice Periodical on Structural Design and Construction, 2002, 7, 14-25.	1.3	5
210	Intermediate Diaphragm and Temperature Effects on Concrete Bridge Performance. Transportation Research Record, 2002, 1814, 83-90.	1.9	5
211	Effect of Bearing Stiffness and Skew Angle on Performance of Precast Concrete Bridge. Transportation Research Record, 2001, 1770, 27-33.	1.9	3
212	Performance Investigation of Concrete Manhole Inlets. Practice Periodical on Structural Design and Construction, 2001, 6, 166-175.	1.3	1
213	Flutter derivatives based random parametric excitation aerodynamic analysis. Computers and Structures, 2000, 75, 463-477.	4.4	10
214	Effect of Bearing Pads on Precast Prestressed Concrete Bridges. Journal of Bridge Engineering, 2000, 5, 224-232.	2.9	28
215	Deflection of Cracked RC Beams under Sustained Loading. Journal of Structural Engineering, 2000, 126, 708-716.	3.4	26
216	Flutter and Buffeting Analysis.â€ƒI: Finite-Element and RPE Solution. Journal of Bridge Engineering, 1999, 4, 174-180.	2.9	21

#	Article	IF	Citations
217	Flutter and Buffeting Analysis.â€ƒII: Luling and Deer Isle Bridges. Journal of Bridge Engineering, 1999, 4, 181-188.	2.9	19
218	Composite Girder Design of Cable-Stayed Bridges. Practice Periodical on Structural Design and Construction, 1998, 3, 158-163.	1.3	2
219	Further Verifications of Beamâ€Column Strength Equations. Journal of Structural Engineering, 1991, 117, 501-513.	3.4	1
220	Non-Stationary Random Vibration of the Bridge-Vehicle Coupled System. Advanced Materials Research, 0, 243-249, 1610-1613.	0.3	0
221	Aerodynamic Forces of Vehicles on the Bridge under Crosswinds. Advanced Materials Research, 0, 639-640, 1206-1209.	0.3	0
222	Dynamic Responses of the Beam Bridge under Moving Vehicular Loads. Advanced Materials Research, 0, 639-640, 1183-1186.	0.3	2
223	Efficient timeâ€“frequency approach for prediction of subway train-induced tunnel and ground vibrations. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 0, , 095440972110205.	2.0	2