## Li-zhong Jiang

List of Publications by Year in descending order

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LI-THONG LIANG

#	Article	IF	CITATIONS
1	Probability analysis of train-bridge coupled system considering track irregularities and parameter uncertainty. Mechanics Based Design of Structures and Machines, 2023, 51, 2918-2935.	3.4	17
2	Safety and comfort assessment of a train passing over an earthquake-damaged bridge based on a probability model. Structure and Infrastructure Engineering, 2023, 19, 525-536.	2.0	16
3	Parameter optimization analysis of plane friction coupling effect. Mechanics Based Design of Structures and Machines, 2023, 51, 4467-4490.	3.4	3
4	Component Damage and Failure Sequence of Track-bridge System for High-speed Railway under Seismic Action. Journal of Earthquake Engineering, 2023, 27, 656-678.	1.4	20
5	Seismic-Induced Geometric Irregularity of Rail Alignment under Transverse Random Earthquake. Journal of Earthquake Engineering, 2023, 27, 575-596.	1.4	12
6	An efficient simplified model for high-speed railway simply supported bridge under earthquakes. Structure and Infrastructure Engineering, 2023, 19, 1811-1825.	2.0	4
7	Dynamic response analysis of multi-span bridge-track structure system under moving loads. Mechanics Based Design of Structures and Machines, 2023, 51, 5669-5687.	3.4	4
8	Uneven settlement threshold of continuous beam pier based on analytic mapping relationship. Structure and Infrastructure Engineering, 2023, 19, 1190-1204.	2.0	6
9	Study on the dynamic response correction factor of a coupled high-speed train–track–bridge system under near-fault earthquakes. Mechanics Based Design of Structures and Machines, 2022, 50, 3303-3321.	3.4	32
10	Seismic Responses of a High-speed Railway (HSR) Bridge and Track Simulation under Longitudinal Earthquakes. Journal of Earthquake Engineering, 2022, 26, 4449-4470.	1.4	27
11	Effects of foundation settlement on comfort of riding on high-speed train-track-bridge coupled systems. Mechanics Based Design of Structures and Machines, 2022, 50, 2760-2778.	3.4	15
12	Bond properties of 500 MPa steel bars in engineered cementitious composites. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2022, 175, 230-243.	0.4	1
13	Velocity pulse effects of near-fault earthquakes on a high-speed railway vehicle-ballastless track-benchmark bridge system. Vehicle System Dynamics, 2022, 60, 2963-2987.	2.2	12
14	Lateral girder displacement effect on the safety and comfortability of the high-speed rail train operation. Vehicle System Dynamics, 2022, 60, 3215-3239.	2.2	20
15	The Influence of Nonhomogeneous Interlayer Stiffness on Dynamic Response of Orbit-Girder System under Moving Load. International Journal of Structural Stability and Dynamics, 2022, 22, .	1.5	9
16	Bending and free vibration and analysis of laminated plates on Winkler foundations based on meshless layerwise theory. Mechanics of Advanced Materials and Structures, 2022, 29, 6168-6187.	1.5	6
17	A semi-online spatial wheel-rail contact detection method. International Journal of Rail Transportation, 2022, 10, 730-748.	1.8	2
18	Assessment of optimal ground motion intensity measure for high-speed railway girder bridge (HRGB) based on spectral acceleration. Engineering Structures, 2022, 252, 113728.	2.6	26

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19	Numerical model of large spatial deflections of bundled conductors in electrical substations. International Journal of Mechanics and Materials in Design, 2022, 18, 223-242.	1.7	5
20	The influence of trains on the seismic response of simply-supported beam bridges with different pier heights expressed through an impact factor. Bulletin of Earthquake Engineering, 2022, 20, 2795-2814.	2.3	8
21	Running Safety of High-Speed Railway Train on Bridge During Earthquake Considering Uncertainty Parameters of Bridge. International Journal of Structural Stability and Dynamics, 2022, 22, .	1.5	7
22	Effect of simulation accuracy of shear keys shear state on seismic response of friction pendulum bearing. Structures, 2022, 39, 1189-1203.	1.7	5
23	Effects of Spatial Variation of Ground Motion (SVGM) on Seismic Vulnerability of Ultra-high Tower and Multi-tower Cable-stayed Bridges. Journal of Earthquake Engineering, 2022, 26, 8495-8524.	1.4	9
24	Distortional Buckling Analysis of I-Steel Concrete Composite Beams Subjected to Hogging Moment. International Journal of Steel Structures, 2022, 22, 864-879.	0.6	2
25	Seismic Damage Assessment and Shaking-Table Test Validation of Midrise Cold-Formed Steel Composite Shear Wall Buildings. Journal of Structural Engineering, 2022, 148, .	1.7	8
26	Track structural damage index for high-speed railway girder bridges considering residual deformations due to earthquake. Bulletin of Earthquake Engineering, 2022, 20, 6587-6609.	2.3	12
27	Effects of near-fault pulse-type ground motions on high-speed railway simply supported bridge and pulse parameter analysis. Bulletin of Earthquake Engineering, 2022, 20, 6167-6192.	2.3	5
28	Study on the restoring force model for the high-speed railway CRTS III Slab Ballastless Track. Archives of Civil and Mechanical Engineering, 2022, 22, .	1.9	4
29	Analytical evaluation of lateral rail unevenness on high-speed railway bridge after transversal seismic shaking. Engineering Structures, 2022, 267, 114614.	2.6	7
30	Mega-earthquake response of benchmark high-speed rail bridge piers based on shaking table tests. Engineering Failure Analysis, 2022, 140, 106608.	1.8	6
31	A near-fault vertical scenario earthquakes-based generic simulation framework for elastoplastic seismic analysis of light rail vehicle-viaduct system. Vehicle System Dynamics, 2021, 59, 949-973.	2.2	15
32	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
33	Analytical investigation on the geometry of longitudinal continuous track in high-speed rail corresponding to lateral bridge deformation. Construction and Building Materials, 2021, 268, 121064.	3.2	30
34	Stochastic finite element method based on point estimate and Karhunen–Loéve expansion. Archive of Applied Mechanics, 2021, 91, 1257-1271.	1.2	11
35	Effects of horizontal ground motion incident angle on the seismic risk assessment of a high-speed railway continuous bridge. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	1.9	25
36	A Numerically Scaled Spring-Friction System and Validation by Shaking Table Test. International Journal of Structural Stability and Dynamics, 2021, 21, 2150092.	1.5	4

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37	Dynamic response limit of high-speed railway bridge under earthquake considering running safety performance of train. Journal of Central South University, 2021, 28, 968-980.	1.2	43
38	Study on the influence of trains on the seismic response of high-speed railway structure under lateral uncertain earthquakes. Bulletin of Earthquake Engineering, 2021, 19, 2971-2992.	2.3	46
39	Two-Step Unconditionally Stable Noniterative Dissipative Displacement Method for Analysis of Nonlinear Structural Dynamics Problems. Shock and Vibration, 2021, 2021, 1-27.	0.3	Ο
40	Modular composite building in urgent emergency engineering projects: A case study of accelerated design and construction of Wuhan Thunder God Mountain/Leishenshan hospital to COVID-19 pandemic. Automation in Construction, 2021, 124, 103555.	4.8	85
41	Running test on high-speed railway track-simply supported girder bridge systems under seismic action. Bulletin of Earthquake Engineering, 2021, 19, 3779-3802.	2.3	21
42	An efficent computing strategy based on the unconditionally stable explicit algorithm for the nonlinear train-track-bridge system under an earthquake. Soil Dynamics and Earthquake Engineering, 2021, 145, 106718.	1.9	10
43	Cyclic Tests and Numerical Analyses on Bolt-Connected Precast Reinforced Concrete Deep Beams. Applied Sciences (Switzerland), 2021, 11, 5356.	1.3	1
44	Creep Effect on the Dynamic Response of Train-Track-Continuous Bridge System. International Journal of Structural Stability and Dynamics, 2021, 21, 2150139.	1.5	12
45	Dynamic Analysis of Multi-layer Beam Structure of Rail Track System Under a Moving Load Based on Mode Decomposition. Journal of Vibration Engineering and Technologies, 2021, 9, 1463-1481.	1.3	8
46	An Efficient Model for Train-Track-Bridge-Coupled System under Seismic Excitation. Shock and Vibration, 2021, 2021, 1-14.	0.3	5
47	Seismic behavior and damage assessment of mid-rise cold-formed steel-framed buildings with normal and reinforced beam-column joints. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	1.9	5
48	Stochastic Transverse Earthquake-Induced Damage Track Irregularity Spectrum Considering the Uncertainty of Track-Bridge System. International Journal of Structural Stability and Dynamics, 2021, 21, .	1.5	8
49	Interface friction effects on scaling a vertical spring-viscous damper isolation system in a shaking table test. Structures, 2021, 33, 1878-1891.	1.7	2
50	Influence on the seismic isolation performance of friction pendulum system when XY shear keys are sheared asynchronously. Structures, 2021, 33, 1908-1922.	1.7	8
51	Errors of structural seismic responses caused by frequency filtering based on seismic wave synthesis. Soil Dynamics and Earthquake Engineering, 2021, 149, 106862.	1.9	5
52	Running Safety Assessment of Trains on Bridges under Earthquakes Based on Spectral Intensity Theory. International Journal of Structural Stability and Dynamics, 2021, 21, .	1.5	9
53	Mapping Relation between Rail and Bridge Deformation Considering Nonlinear Contact of Interlayer. Materials, 2021, 14, 6653.	1.3	7
54	Optical fiber sensing technology for full-scale condition monitoring of pavement layers. Road Materials and Pavement Design, 2020, 21, 1258-1273.	2.0	32

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55	Experimental Investigation on the Seismic Behavior of the Semi-Rigid One-Way Straight Mortise-Tenon Joint of a Historical Timber Building. International Journal of Architectural Heritage, 2020, 14, 1135-1147.	1.7	15
56	Improved Analytical Method to Investigate the Dynamic Characteristics of Composite Box Beam with Corrugated Webs. International Journal of Steel Structures, 2020, 20, 194-206.	0.6	11
57	Mapping the relationship between the structural deformation of a simply supported beam bridge and rail deformation in high-speed railways. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2020, 234, 1081-1092.	1.3	14
58	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. Soil Dynamics and Earthquake Engineering, 2020, 129, 105945.	1.9	68
59	Simplified calculation modeling method of multi-span bridges on high-speed railways under earthquake condition. Bulletin of Earthquake Engineering, 2020, 18, 2303-2328.	2.3	28
60	Sensitivity and dynamic analysis of train-bridge coupled system with multiple random factors. Engineering Structures, 2020, 221, 111083.	2.6	59
61	Applicability analysis of high-speed railway system under the action of near-fault ground motion. Soil Dynamics and Earthquake Engineering, 2020, 139, 106289.	1.9	53
62	Parametric study on the Multangular-Pyramid Concave Friction System (MPCFS) for seismic isolation. Frontiers of Structural and Civil Engineering, 2020, 14, 1152-1165.	1.2	0
63	Dynamic effect of heavy-haul train on seismic response of railway cable-stayed bridge. Journal of Central South University, 2020, 27, 1939-1955.	1.2	14
64	Experimental investigation on shear steel bars in CRTS II slab ballastless track under low-cyclic reciprocating load. Construction and Building Materials, 2020, 255, 119425.	3.2	32
65	A simplified method for fundamental period prediction of steel frames with steel plate shear walls. Structural Design of Tall and Special Buildings, 2020, 29, e1718.	0.9	4
66	Shear Lag Effect and Accordion Effect on Dynamic Characteristics of Composite Box Girder Bridge with Corrugated Steel Webs. Applied Sciences (Switzerland), 2020, 10, 4346.	1.3	6
67	Study of bridge-subgrade longitudinal constraint range for high-speed railway simply-supported beam bridge with CRTSII ballastless track under earthquake excitation. Construction and Building Materials, 2020, 241, 118026.	3.2	33
68	Seismic damage features of high-speed railway simply supported bridge–track system under near-fault earthquake. Advances in Structural Engineering, 2020, 23, 1573-1586.	1.2	32
69	Stochastic Analysis of Train–Bridge System Using the Karhunen–Loéve Expansion and the Point Estimate Method. International Journal of Structural Stability and Dynamics, 2020, 20, 2050025.	1.5	44
70	Nonlinear random seismic analysis of 3D high-speed railway track-bridge system based on OpenSEES. Structures, 2020, 24, 87-98.	1.7	17
71	Running safety assessment of a train traversing a three-tower cable-stayed bridge under spatially varying ground motion. Railway Engineering Science, 2020, 28, 184-198.	2.7	41
72	Simplified seismic model of CRTS II ballastless track structure on high-speed railway bridges in China. Engineering Structures, 2020, 211, 110453.	2.6	36

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73	Scaling errors of a seismic isolation system with a shear key. Soil Dynamics and Earthquake Engineering, 2020, 139, 106382.	1.9	6
74	Earthquake Influence on the Rail Irregularity on High-Speed Railway Bridge. Shock and Vibration, 2020, 2020, 1-16.	0.3	21
75	Application of KLE-PEM for Random Dynamic Analysis of Nonlinear Train-Track-Bridge System. Shock and Vibration, 2020, 2020, 1-10.	0.3	5
76	The seismically induced failure sequence of multiple components of high-speed railway bridges under different earthquake intensities. Journal of Vibroengineering, 2020, 22, 1629-1647.	0.5	1
77	Nonlinear seismic assessment of isolated high-speed railway bridge subjected to near-fault earthquake scenarios. Structure and Infrastructure Engineering, 2019, 15, 1529-1547.	2.0	18
78	The shear pin strength of friction pendulum bearings (FPB) in simply supported railway bridges. Bulletin of Earthquake Engineering, 2019, 17, 6109-6139.	2.3	32
79	Lateral-torsional buckling of box beam with corrugated steel webs. Journal of Central South University, 2019, 26, 1946-1957.	1.2	9
80	Analysis of flexural natural vibrations of thinâ€walled box beams using higher order beam theory. Structural Design of Tall and Special Buildings, 2019, 28, e1659.	0.9	2
81	Train-bridge system dynamics analysis with uncertain parameters based on new point estimate method. Engineering Structures, 2019, 199, 109454.	2.6	64
82	A Novel Method to Search for the Wheel–Rail Contact Point. International Journal of Structural Stability and Dynamics, 2019, 19, 1950142.	1.5	15
83	A feasible vibration measurement and active control method of reinforced concrete lightweight pier railway bridges for heavy-haul monorail trains. European Journal of Environmental and Civil Engineering, 2019, , 1-19.	1.0	2
84	Dynamic Response Analysis of a Simply Supported Double-Beam System under Successive Moving Loads. Applied Sciences (Switzerland), 2019, 9, 2162.	1.3	22
85	Effects of friction-based fixed bearings on seismic performance of high-speed railway simply supported girder bridges and experimental validation. Advances in Structural Engineering, 2019, 22, 687-701.	1.2	8
86	Numerical and experimental investigations on the Park-Ang damage index for high-speed railway bridge piers with flexure failures. Engineering Structures, 2019, 201, 109851.	2.6	27
87	A Practical Wheel-Rail Interaction Element for Modeling Vehicle-Track-Bridge Systems. International Journal of Structural Stability and Dynamics, 2019, 19, 1950011.	1.5	23
88	Effects of uncertain characteristic periods of ground motions on seismic vulnerabilities of a continuous track–bridge system of high-speed railway. Bulletin of Earthquake Engineering, 2018, 16, 3739-3769.	2.3	39
89	The Multangular-Pyramid Concave Friction System (MPCFS) for seismic isolation: A preliminary numerical study. Engineering Structures, 2018, 160, 383-394.	2.6	10
90	Numerical investigation on scaling a pure friction isolation system for civil structures in shaking table model tests. International Journal of Non-Linear Mechanics, 2018, 98, 1-12.	1.4	16

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91	Effects of friction-based fixed bearings on the seismic vulnerability of a high-speed railway continuous bridge. Advances in Structural Engineering, 2018, 21, 643-657.	1.2	50
92	Natural vibration analysis of steel–concrete composite box beam using improved finite beam element method. Advances in Structural Engineering, 2018, 21, 918-932.	1.2	8
93	The Impact of the Convex Friction Distribution on the Seismic Response of a Spring-friction Isolation System. KSCE Journal of Civil Engineering, 2018, 22, 1203-1213.	0.9	17
94	Effects of vertical ground motions on seismic vulnerabilities of a continuous track-bridge system of high-speed railway. Soil Dynamics and Earthquake Engineering, 2018, 115, 281-290.	1.9	61
95	An Analytical Study on Dynamic Response of Multiple Simply Supported Beam System Subjected to Moving Loads. Shock and Vibration, 2018, 2018, 1-14.	0.3	163
96	Seismic Isolation Characteristics of a Friction System. Journal of Testing and Evaluation, 2018, 46, 1411-1420.	0.4	14
97	Numerical analysis on longitudinal seismic responses of high-speed railway bridges isolated by friction pendulum bearings. Journal of Vibroengineering, 2018, 20, 1748-1760.	0.5	11
98	Introduction of the convex friction system (CFS) for seismic isolation. Structural Control and Health Monitoring, 2017, 24, e1861.	1.9	10
99	Seismic Response of Rolling Isolation Systems with Concave Friction Distribution. Journal of Earthquake Engineering, 2017, 21, 325-342.	1.4	24
100	Improved finite beam element method for analyzing the flexural natural vibration of thin-walled box girders. Advances in Mechanical Engineering, 2017, 9, 168781401772629.	0.8	2
101	Seismic damage evaluation of high-speed railway bridge components under different intensities of earthquake excitations. Engineering Structures, 2017, 152, 116-128.	2.6	54
102	Improved Finite Beam Element Method to Analyze the Natural Vibration of Steel-Concrete Composite Truss Beam. Shock and Vibration, 2017, 2017, 1-12.	0.3	8
103	Seismic Vulnerability Evaluation of a Three-Span Continuous Beam Railway Bridge. Mathematical Problems in Engineering, 2017, 2017, 1-13.	0.6	10
104	Experimental Study on the Seismic Behaviour of Mortise–Tenon Joints of the Ancient Timbers. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2017, 27, 512-519.	0.5	22
105	The impact of the concave distribution of rolling friction coefficient on the seismic isolation performance of a spring-rolling system. International Journal of Non-Linear Mechanics, 2016, 83, 65-77.	1.4	32
106	Effects of friction variability on isolation performance of rolling-spring systems. Journal of Central South University, 2016, 23, 233-239.	1.2	15
107	Elastic Distortional Buckling Analysis of I-Steel Concrete Composite Beam Considering Shear Deformation. International Journal of Structural Stability and Dynamics, 2016, 16, 1550045.	1.5	14
108	Influence of soil–structure interaction (structure-to-soil relative stiffness and mass ratio) on the fundamental period of buildings: experimental observation and analytical verification. Bulletin of Earthquake Engineering, 2016, 14, 139-160.	2.3	23

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109	Lateral Buckling Analysis of the Steel-Concrete Composite Beams in Negative Moment Region. Advances in Materials Science and Engineering, 2015, 2015, 1-8.	1.0	4
110	Experimental study on seismic behaviors of steel-concrete composite frames. Journal of Central South University, 2015, 22, 4396-4413.	1.2	3
111	Experimental investigations of the seismic performance of bridge piers with rounded rectangular cross-sections. Earthquake and Structures, 2014, 7, 463-484.	1.0	46
112	Near-fault directivity pulse-like ground motion effect on high-speed railway bridge. Journal of Central South University, 2014, 21, 2425-2436.	1.2	29
113	Analysis of free vibration characteristic of steel-concrete composite box-girder considering shear lag and slip. Journal of Central South University, 2013, 20, 2570-2577.	1.2	15
114	Prediction of Traffic Volume in Bridge Load Random Process Based on Grey Markov Chain. Journal of Highway and Transportation Research and Development (English Edition), 2012, 6, 61-65.	0.2	1
115	Closed-form solution to thin-walled box girders considering effects of shear deformation and shear lag. Journal of Central South University, 2012, 19, 2650-2655.	1.2	19
116	Closed-form solution for shear lag effects of steel-concrete composite box beams considering shear deformation and slip. Journal of Central South University, 2012, 19, 2976-2982.	1.2	13
117	Explicit concomitance of implicit method to solve vibration equation. Earthquake Engineering and Engineering Vibration, 2012, 11, 269-272.	1.1	2
118	Numerical Modeling and Simulation on Seismic Performance of High-Speed Railway Bridge System. Noise and Vibration Worldwide, 2011, 42, 15-21.	0.4	5
119	Effects of interface slip and semi-rigid joint on elastic seismic response of steel-concrete composite frames. Central South University, 2010, 17, 1327-1335.	0.5	6
120	Long term behavior of self-compacting reinforced concrete beams. Central South University, 2008, 15, 423-428.	0.5	9
121	Study of resonance condition of railway bridge subjected to train loads with a four-beam system. Mechanics Based Design of Structures and Machines, 0, , 1-21.	3.4	4
122	Research on dynamic response of multi-layer beam system considering random interlayer parameters. JVC/Journal of Vibration and Control, 0, , 107754632110726.	1.5	1