

# Bruno Briseghella

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101  
papers

980  
citations

18  
h-index

24  
g-index

130  
ext. papers

1,388  
ext. citations

2.7  
avg, IF

4.83  
L-index

#	Paper	IF	Citations
101	Effects of debonding on circular CFST stub columns. <i>Journal of Constructional Steel Research</i> , <b>2012</b> , 69, 64-76	3.8	68
100	Review of ultra-high performance concrete and its application in bridge engineering. <i>Construction and Building Materials</i> , <b>2020</b> , 260, 119844	6.7	59
99	Parametric and pushover analyses on integral abutment bridge. <i>Engineering Structures</i> , <b>2011</b> , 33, 502-515	4.7	38
98	Evaluation of equivalent linearization analysis methods for seismically isolated buildings characterized by SDOF systems. <i>Engineering Structures</i> , <b>2014</b> , 59, 619-634	4.7	29
97	Shaking table tests for the evaluation of the seismic performance of an innovative lightweight bridge with CFST composite truss girder and lattice pier. <i>Engineering Structures</i> , <b>2014</b> , 75, 73-86	4.7	28
96	Improved equivalent viscous damping model for base-isolated structures with lead rubber bearings. <i>Engineering Structures</i> , <b>2014</b> , 75, 340-352	4.7	27
95	Experimental study on K-joints of concrete-filled steel tubular truss structures. <i>Journal of Constructional Steel Research</i> , <b>2015</b> , 107, 182-193	3.8	27
94	On the form of the Musmeci bridge over the Basento river. <i>Engineering Structures</i> , <b>2019</b> , 191, 658-673	4.7	25
93	Application of Topological Optimization to Bridge Design. <i>Journal of Bridge Engineering</i> , <b>2013</b> , 18, 790-800	4.7	24
92	Parameter identification of degrading and pinched hysteretic systems using a modified Bouc-Wen model. <i>Structure and Infrastructure Engineering</i> , <b>2018</b> , 14, 1573-1585	2.9	24
91	Severely Damaged Reinforced Concrete Circular Columns Repaired by Turned Steel Rebar and High-Performance Concrete Jacketing with Steel or Polymer Fibers. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1671	2.6	23
90	Topology Optimization of Bridges Supported by a Concrete Shell. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , <b>2013</b> , 23, 285-294	1	22
89	Test study on residual stress distribution of hybrid steel u-rib stiffened plates. <i>Journal of Constructional Steel Research</i> , <b>2016</b> , 121, 261-267	3.8	21
88	Temperature Monitoring and Response of Deck-Extension Side-by-Side Box Girder Bridges. <i>Journal of Performance of Constructed Facilities</i> , <b>2020</b> , 34, 04019122	2	21
87	Experimental study on joint resistance and failure modes of concrete filled steel tubular (CFST) truss girders. <i>Journal of Constructional Steel Research</i> , <b>2018</b> , 141, 241-250	3.8	21
86	A corrosion model for the interpretation of cyclic behavior of reinforced concrete sections. <i>Structural Concrete</i> , <b>2020</b> , 21, 1732-1746	2.6	20
85	An improved equivalent linear model of seismic isolation system with bilinear behavior. <i>Engineering Structures</i> , <b>2014</b> , 61, 113-126	4.7	19

84	Finite element model updating of a tied-arch bridge using Douglas-Reid method and Rosenbrock optimization algorithm. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , <b>2014</b> , 1, 280-292	3.9	18
83	An innovative steel-concrete joint for integral abutment bridges. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , <b>2015</b> , 2, 209-222	3.9	16
82	A repair and retrofitting intervention to improve plastic dissipation and shear strength of Chinese RC bridges <b>2015</b> ,		16
81	Optimal arches shape for single-point-supported deck bridges. <i>Acta Mechanica</i> , <b>2018</b> , 229, 2291-2297	2.1	15
80	Equivalent Viscous Damping of Bilinear Hysteretic Oscillators. <i>Journal of Structural Engineering</i> , <b>2015</b> , 141, 06015002	3	15
79	Bridge Structural Optimization Through Step-by-Step Evolutionary Process. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , <b>2010</b> , 20, 72-78	1	15
78	Attainment of an Integral Abutment Bridge through the Refurbishment of a Simply Supported Structure. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , <b>2007</b> , 17, 228-234	1	15
77	Solar Radiation Parameters for Assessing Temperature Distributions on Bridge Cross-Sections. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 627	2.6	15
76	Finite Element Analysis of Reinforced Concrete Bridge Piers Including a Flexure-Shear Interaction Model. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2209	2.6	14
75	Finite Element Model Updating of Canonical Bridge Using Experimental Modal Data and Genetic Algorithm. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , <b>2016</b> , 26, 27-36	1	14
74	Optimization Indexes to Identify the Optimal Design Solution of Shell-Supported Bridges. <i>Journal of Bridge Engineering</i> , <b>2016</b> , 21, 04015067	2.7	13
73	Integral abutment bridge concept applied to the rehabilitation of a simply supported concrete structure. <i>Structural Concrete</i> , <b>2007</b> , 8, 25-33	2.6	13
72	Influence of soil type on damping reduction factor: A stochastic analysis based on peak theory. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2018</b> , 104, 365-368	3.5	13
71	Degrading Bouc-Wen Model Parameters Identification Under Cyclic Load. <i>International Journal of Geotechnical Earthquake Engineering</i> , <b>2017</b> , 8, 60-81	0.2	12
70	Analytical Formulation for Limit Length of Integral Abutment Bridges. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , <b>2011</b> , 21, 304-310	1	12
69	Relevant outcomes from the history of Polcevera Viaduct in Genova, from design to nowadays failure. <i>Journal of Civil Structural Health Monitoring</i> , <b>2020</b> , 10, 87-107	2.9	12
68	Preliminary data and field observations of the 21st August 2017 Ischia earthquake. <i>Bulletin of Earthquake Engineering</i> , <b>2019</b> , 17, 1221-1256	3.7	12
67	Probabilistic seismic response and uncertainty analysis of continuous bridges under near-fault ground motions. <i>Frontiers of Structural and Civil Engineering</i> , <b>2019</b> , 13, 1510-1519	2.5	10

66	Integral abutment bridges: Investigation of seismic soil-structure interaction effects by shaking table testing. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2021</b> , 50, 1517-1538	4	10
65	Seismic duration effect on damping reduction factor using random vibration theory. <i>Engineering Structures</i> , <b>2019</b> , 179, 296-309	4.7	10
64	Finite element thermo-mechanical analysis of concrete box-girders. <i>Structures</i> , <b>2021</b> , 33, 2424-2444	3.4	10
63	Experimental and numerical investigation of the cyclic behaviour of an innovative prefabricated beam-to-column joint. <i>Engineering Structures</i> , <b>2017</b> , 150, 373-389	4.7	9
62	The optimal shapes of piles in integral abutment bridges. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , <b>2017</b> , 4, 576-593	3.9	9
61	A degrading Bouc-Wen model for the hysteresis of reinforced concrete structural elements. <i>Structure and Infrastructure Engineering</i> , <b>2020</b> , 16, 917-930	2.9	9
60	Curved shell-supported footbridges <b>2015</b> ,		8
59	Equivalent damping of bilinear hysteretic SDOF system considering the influence of initial elastic damping. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2017</b> , 97, 74-85	3.5	7
58	Seismic Reassessment of the Leaning Tower of Pisa: Dynamic Monitoring, Site Response, and SSI. <i>Earthquake Spectra</i> , <b>2019</b> , 35, 703-736	3.4	7
57	Experiment on Interaction of Abutment, Steel H-Pile and Soil in Integral Abutment Jointless Bridges (IAJBs) under Low-Cycle Pseudo-Static Displacement Loads. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1358	2.6	7
56	Optimal Design of Pile Foundation in Fully Integral Abutment Bridge. <i>Springer Tracts on Transportation and Traffic</i> , <b>2016</b> , 3-15	0.3	6
55	Experimental and numerical investigation of the static performance of innovative prefabricated high-strength composite columns. <i>Engineering Structures</i> , <b>2018</b> , 159, 227-244	4.7	6
54	Friction Pendulum System as a Retrofit Technique for Existing Reinforced Concrete Building. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , <b>2013</b> , 23, 219-224	1	6
53	Dynamic characteristics of a curved steel-concrete composite cable-stayed bridge and effects of different design choices. <i>Structures</i> , <b>2021</b> , 34, 4669-4681	3.4	6
52	Effects of Excitation Bandwidth on Damping Reduction Factor. <i>Journal of Earthquake Engineering</i> , <b>2021</b> , 25, 649-676	1.8	6
51	Design and field tests of a deck-extension bridge with small box girder. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , <b>2018</b> , 5, 467-479	3.9	6
50	Longitudinal Joint Performance of a Concrete Hollow Core Slab Bridge. <i>Transportation Research Record</i> , <b>2018</b> , 2672, 196-206	1.7	6
49	Development and Validation of New Bouc-Wen Data-Driven Hysteresis Model for Masonry Infilled RC Frames. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2021</b> , 147, 04021092	2.4	6

48	Probabilistic Seismic Response Analysis on Continuous Bridges Under Near-Fault Ground Motions. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , <b>2019</b> , 43, 491-500	1.1	5
47	IMPA Incremental Modal Pushover Analysis for Bridges. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4287	2.6	5
46	Nonlinear experimental response of non-conventional composite steel and concrete connection. <i>Frontiers of Architecture and Civil Engineering in China</i> , <b>2009</b> , 3, 42-49		5
45	Time-dependent cyclic behavior of reinforced concrete bridge columns under chlorides-induced corrosion and rebars buckling. <i>Structural Concrete</i> ,	2.6	5
44	Wireless-Based Identification and Model Updating of a Skewed Highway Bridge for Structural Health Monitoring. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2347	2.6	4
43	Experimental Research on Debonding in Concrete-Filled Steel Tubes Columns Subjected to Eccentric Loading <b>2010</b> ,		4
42	Volume/thrust optimal shape criteria for arches under static vertical loads. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , <b>2018</b> , 5, 503-509	3.9	4
41	Asynchronous earthquake strong motion and RC bridges response. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , <b>2018</b> , 5, 454-466	3.9	4
40	Ultra-High performance concrete (UHPC) with polypropylene (Pp) and steel Fibres: Investigation on the high temperature behaviour. <i>Construction and Building Materials</i> , <b>2021</b> , 304, 124608	6.7	4
39	Curved footbridges supported by a shell obtained through thrust network analysis. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , <b>2019</b> , 6, 65-75	3.9	3
38	Optimal design criteria for form-finding of double-curved surfaces. <i>Procedia Manufacturing</i> , <b>2020</b> , 44, 28-35	1.5	3
37	The Fourth Bridge over the Grand Canal in Venice: From Idea to Analysis and Construction. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , <b>2010</b> , 20, 6-12	1	3
36	Tensegrity Bridge with Prestressed Deck <b>2010</b> ,		3
35	Application of the Incremental Modal Pushover Analysis to Bridges Subjected to Near-Fault Ground Motions. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6738	2.6	3
34	Lateral performance of midply wood shear walls with anchor tie-down system: Experimental investigation and numerical simulation. <i>Construction and Building Materials</i> , <b>2020</b> , 235, 117518	6.7	3
33	Cable optimization of a cable-stayed bridge based on genetic algorithms and the influence matrix method. <i>Engineering Optimization</i> , <b>2020</b> , 1-20	2	3
32	Structural Optimization of a Steel Arch Bridge with Genetic Algorithm. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , <b>2021</b> , 31, 347-356	1	3
31	Seismic behavior of a low-rise horizontal cylindrical tank. <i>International Journal of Advanced Structural Engineering</i> , <b>2018</b> , 10, 143-152	2	2

30	Optimized Design for Soil-Pile Interaction and Abutment Size of Integral Abutment Bridges <b>2010</b> ,		2
29	Photocatalytic concrete for degrading organic dyes in water.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	2
28	Geometrical Parametric Study on Steel Beams Exposed to Solar Radiation. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9198	2.6	2
27	Seismic Assessment of Reinforced Concrete Frames: Influence of Shear-Flexure Interaction and Rebar Corrosion. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 463-478	0.9	2
26	Comparison of Direct and Iterative Methods for Model Updating of a Curved Cable-stayed Bridge Using Experimental Modal Data <b>2016</b> ,		2
25	A Heuristic Approach to Identify the Steel Grid Direction of R/C Slabs Using the Yield-Line Method for Analysis. <i>Advances in Civil Engineering</i> , <b>2019</b> , 2019, 1-15	1.3	2
24	Optimum design of piles with pre-hole filled with high-damping material: Experimental tests and analytical modeling. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2021</b> , 151, 106995	3.5	2
23	Effect of pinching on structural resilience: performance of reinforced concrete and timber structures under repeated cycles. <i>Structure and Infrastructure Engineering</i> , 1-17	2.9	2
22	To compute or not to compute?. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , <b>2019</b> , 6, 85-93	3.9	1
21	Use of Plastic Correction Formula to Improve Accuracy of Welding Residual Stress Test with Blind-Hole Method. <i>Transactions of Tianjin University</i> , <b>2018</b> , 24, 480-488	2.9	1
20	Simplified Linear Static Analysis for Base-Isolated Buildings with Friction Pendulum Systems. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , <b>2014</b> , 24, 490-502	1	1
19	Temperatures and gradients in concrete Bridges: Experimental, finite element analysis and design. <i>Structures</i> , <b>2022</b> , 37, 960-976	3.4	1
18	Shell-supported footbridges. <i>Curved and Layered Structures</i> , <b>2020</b> , 7, 199-214	1.9	1
17	Structural robustness of an RC pier under repeated earthquakes. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 1-20	0.5	1
16	Curved deck arch bridges supported by an inclined arch <b>2016</b> ,		1
15	Dynamic Characterization of a Stress Ribbon and Butterfly Arch Pedestrian Bridge Using Wireless Measurements. <i>Structural Integrity</i> , <b>2020</b> , 395-403	0.2	1
14	Prediction of ultimate load capacities of CFST columns with debonding by EPR. <i>Thin-Walled Structures</i> , <b>2021</b> , 164, 107912	4.7	1
13	Time-Dependent Analysis of Precast Segmental Bridges. <i>International Journal of Concrete Structures and Materials</i> , <b>2021</b> , 15,	2.8	1

12	A Resilience-Based Model for the Seismic Assessment of the Functionality of Road Networks Affected by Bridge Damage and Restoration. <i>Infrastructures</i> , <b>2021</b> , 6, 112	2.6	1
11	Numerical simulation and simplified calculation of the effective slab width for composite cable-stayed bridges. <i>Structures</i> , <b>2022</b> , 39, 512-526	3.4	1
10	Seismic assessment of corroded concrete bridges using incremental modal pushover analysis. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 1-29	0.5	0
9	Dynamic assessment, FE modelling and parametric updating of a butterfly-arch stress-ribbon pedestrian bridge. <i>Structure and Infrastructure Engineering</i> , 1-12	2.9	0
8	Chinese High Rise Reinforced Concrete Building Retrofitted with CLT Panels. <i>Sustainability</i> , <b>2021</b> , 13, 9667	3.6	0
7	IMPA versus Cloud Analysis and IDA: Different Methods to Evaluate Structural Seismic Fragility. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 3687	2.6	0
6	Adaptive form-finding method for form-fixed spatial network structures. <i>International Journal of Advanced Structural Engineering</i> , <b>2018</b> , 10, 99-109	2	
5	FRP Reinforcement to Retrofit Bridge Pier After Repair: Experimental Test Results. <i>Lecture Notes in Civil Engineering</i> , <b>2022</b> , 449-458	0.3	
4	SEISMIC BEHAVIOUR OF NOVEL INTEGRAL ABUTMENT BRIDGES. <i>NED University Journal of Research</i> , <b>2019</b> , 1, 1-20	0.3	
3	Experimental Research on Effects of Debonding on Circular CFST Columns with Different Slenderness Ratios. <i>Structural Integrity</i> , <b>2020</b> , 369-377	0.2	
2	Comparison of Form-finding Methods to Shape Concrete Shells for Curved Footbridges. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 1-9	1	
1	The Impact of Corrosion on the Seismic Assessment of Reinforced Concrete Bridge Piers. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 718-725	0.9	