Bruno Briseghella

List of Publications by Year in Descending Order

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	Photocatalytic concrete for degrading organic dyes in water.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	2
100	Temperatures and gradients in concrete Bridges: Experimental, finite element analysis and design. *Structures*, **2022**, 37, 960-976	3.4	1
99	FRP Reinforcement to Retrofit Bridge Pier After Repair: Experimental Test Results. *Lecture Notes in Civil Engineering*, **2022**, 449-458	0.3	
98	IMPA versus Cloud Analysis and IDA: Different Methods to Evaluate Structural Seismic Fragility. *Applied Sciences (Switzerland)*, **2022**, 12, 3687	2.6	0
97	Numerical simulation and simplified calculation of the effective slab width for composite cable-stayed bridges. *Structures*, **2022**, 39, 512-526	3.4	1
96	Dynamic characteristics of a curved steel–concrete composite cable-stayed bridge and effects of different design choices. *Structures*, **2021**, 34, 4669-4681	3.4	6
95	Geometrical Parametric Study on Steel Beams Exposed to Solar Radiation. *Applied Sciences (Switzerland)*, **2021**, 11, 9198	2.6	2
94	Integral abutment bridges: Investigation of seismic soil-structure interaction effects by shaking table testing. *Earthquake Engineering and Structural Dynamics*, **2021**, 50, 1517-1538	4	10
93	Prediction of ultimate load capacities of CFST columns with debonding by EPR. *Thin-Walled Structures*, **2021**, 164, 107912	4.7	1
92	Structural Optimization of a Steel Arch Bridge with Genetic Algorithm. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2021**, 31, 347-356	1	3
91	Effects of Excitation Bandwidth on Damping Reduction Factor. *Journal of Earthquake Engineering*, **2021**, 25, 649-676	1.8	6
90	Time-Dependent Analysis of Precast Segmental Bridges. *International Journal of Concrete Structures and Materials*, **2021**, 15,	2.8	1
89	A Resilience-Based Model for the Seismic Assessment of the Functionality of Road Networks Affected by Bridge Damage and Restoration. *Infrastructures*, **2021**, 6, 112	2.6	1
88	Chinese High Rise Reinforced Concrete Building Retrofitted with CLT Panels. *Sustainability*, **2021**, 13, 9667	3.6	0
87	Finite element thermo-mechanical analysis of concrete box-girders. *Structures*, **2021**, 33, 2424-2444	3.4	10
86	Ultra-High performance concrete (UHPC) with polypropylene (Pp) and steel Fibres: Investigation on the high temperature behaviour. *Construction and Building Materials*, **2021**, 304, 124608	6.7	4
85	Development and Validation of New Bouc–Wen Data-Driven Hysteresis Model for Masonry Infilled RC Frames. *Journal of Engineering Mechanics - ASCE*, **2021**, 147, 04021092	2.4	6

84	Optimum design of piles with pre-hole filled with high-damping material: Experimental tests and analytical modeling. *Soil Dynamics and Earthquake Engineering*, **2021**, 151, 106995	3.5	2
83	The Impact of Corrosion on the Seismic Assessment of Reinforced Concrete Bridge Piers. *Lecture Notes in Computer Science*, **2021**, 718-725	0.9	
82	Optimal design criteria for form-finding of double-curved surfaces. *Procedia Manufacturing*, **2020**, 44, 28-35	1.5	3
81	Wireless-Based Identification and Model Updating of a Skewed Highway Bridge for Structural Health Monitoring. *Applied Sciences (Switzerland)*, **2020**, 10, 2347	2.6	4
80	IMPA Incremental Modal Pushover Analysis for Bridges. *Applied Sciences (Switzerland)*, **2020**, 10, 4287	2.6	5
79	Review of ultra-high performance concrete and its application in bridge engineering. *Construction and Building Materials*, **2020**, 260, 119844	6.7	59
78	Experiment on Interaction of Abutment, Steel H-Pile and Soil in Integral Abutment Jointless Bridges (IAJBs) under Low-Cycle Pseudo-Static Displacement Loads. *Applied Sciences (Switzerland)*, **2020**, 10, 1358	2.6	7
77	Finite Element Analysis of Reinforced Concrete Bridge Piers Including a Flexure-Shear Interaction Model. *Applied Sciences (Switzerland)*, **2020**, 10, 2209	2.6	14
76	Shell-supported footbridges. *Curved and Layered Structures*, **2020**, 7, 199-214	1.9	1
75	Application of the Incremental Modal Pushover Analysis to Bridges Subjected to Near-Fault Ground Motions. *Applied Sciences (Switzerland)*, **2020**, 10, 6738	2.6	3
74	Experimental Research on Effects of Debonding on Circular CFST Columns with Different Slenderness Ratios. *Structural Integrity*, **2020**, 369-377	0.2	
73	Dynamic Characterization of a Stress Ribbon and Butterfly Arch Pedestrian Bridge Using Wireless Measurements. *Structural Integrity*, **2020**, 395-403	0.2	1
72	Seismic Assessment of Reinforced Concrete Frames: Influence of Shear-Flexure Interaction and Rebar Corrosion. *Lecture Notes in Computer Science*, **2020**, 463-478	0.9	2
71	A corrosion model for the interpretation of cyclic behavior of reinforced concrete sections. *Structural Concrete*, **2020**, 21, 1732-1746	2.6	20
70	Relevant outcomes from the history of Polcevera Viaduct in Genova, from design to nowadays failure. *Journal of Civil Structural Health Monitoring*, **2020**, 10, 87-107	2.9	12
69	Temperature Monitoring and Response of Deck-Extension Side-by-Side Box Girder Bridges. *Journal of Performance of Constructed Facilities*, **2020**, 34, 04019122	2	21
68	Lateral performance of midply wood shear walls with anchor tie-down system: Experimental investigation and numerical simulation. *Construction and Building Materials*, **2020**, 235, 117518	6.7	3
67	Cable optimization of a cable-stayed bridge based on genetic algorithms and the influence matrix method. *Engineering Optimization*, **2020**, 1-20	2	3

66	A degrading Bouc□Wen model for the hysteresis of reinforced concrete structural elements. *Structure and Infrastructure Engineering*, **2020**, 16, 917-930	2.9	9
65	Probabilistic Seismic Response Analysis on Continuous Bridges Under Near-Fault Ground Motions. *Iranian Journal of Science and Technology - Transactions of Civil Engineering*, **2019**, 43, 491-500	1.1	5
64	Curved footbridges supported by a shell obtained through thrust network analysis. *Journal of Traffic and Transportation Engineering (English Edition)*, **2019**, 6, 65-75	3.9	3
63	On the form of the Musmeci□ bridge over the Basento river. *Engineering Structures*, **2019**, 191, 658-673	4.7	25
62	To compute or not to compute?. *Journal of Traffic and Transportation Engineering (English Edition)*, **2019**, 6, 85-93	3.9	1
61	Seismic Reassessment of the Leaning Tower of Pisa: Dynamic Monitoring, Site Response, and SSI. *Earthquake Spectra*, **2019**, 35, 703-736	3.4	7
60	Probabilistic seismic response and uncertainty analysis of continuous bridges under near-fault ground motions. *Frontiers of Structural and Civil Engineering*, **2019**, 13, 1510-1519	2.5	10
59	SEISMIC BEHAVIOUR OF NOVEL INTEGRAL ABUTMENT BRIDGES. *NED University Journal of Research*, **2019**, 1, 1-20	0.3	
58	A Heuristic Approach to Identify the Steel Grid Direction of R/C Slabs Using the Yield-Line Method for Analysis. *Advances in Civil Engineering*, **2019**, 2019, 1-15	1.3	2
57	Seismic duration effect on damping reduction factor using random vibration theory. *Engineering Structures*, **2019**, 179, 296-309	4.7	10
56	Preliminary data and field observations of the 21st August 2017 Ischia earthquake. *Bulletin of Earthquake Engineering*, **2019**, 17, 1221-1256	3.7	12
55	Adaptive form-finding method for form-fixed spatial network structures. *International Journal of Advanced Structural Engineering*, **2018**, 10, 99-109	2	
54	Optimal arches shape for single-point-supported deck bridges. *Acta Mechanica*, **2018**, 229, 2291-2297	2.1	15
53	Experimental and numerical investigation of the static performance of innovative prefabricated high-strength composite columns. *Engineering Structures*, **2018**, 159, 227-244	4.7	6
52	Use of Plastic Correction Formula to Improve Accuracy of Welding Residual Stress Test with Blind-Hole Method. *Transactions of Tianjin University*, **2018**, 24, 480-488	2.9	1
51	Seismic behavior of a low-rise horizontal cylindrical tank. *International Journal of Advanced Structural Engineering*, **2018**, 10, 143-152	2	2
50	Experimental study on joint resistance and failure modes of concrete filled steel tubular (CFST) truss girders. *Journal of Constructional Steel Research*, **2018**, 141, 241-250	3.8	21
49	Influence of soil type on damping reduction factor: A stochastic analysis based on peak theory. *Soil Dynamics and Earthquake Engineering*, **2018**, 104, 365-368	3.5	13

48	Solar Radiation Parameters for Assessing Temperature Distributions on Bridge Cross-Sections. *Applied Sciences (Switzerland)*, **2018**, 8, 627	2.6	15
47	Severely Damaged Reinforced Concrete Circular Columns Repaired by Turned Steel Rebar and High-Performance Concrete Jacketing with Steel or Polymer Fibers. *Applied Sciences (Switzerland)*, **2018**, 8, 1671	2.6	23
46	Volume/thrust optimal shape criteria for arches under static vertical loads. *Journal of Traffic and Transportation Engineering (English Edition)*, **2018**, 5, 503-509	3.9	4
45	Asynchronous earthquake strong motion and RC bridges response. *Journal of Traffic and Transportation Engineering (English Edition)*, **2018**, 5, 454-466	3.9	4
44	Design and field tests of a deck-extension bridge with small box girder. *Journal of Traffic and Transportation Engineering (English Edition)*, **2018**, 5, 467-479	3.9	6
43	Parameter identification of degrading and pinched hysteretic systems using a modified Bouc–Wen model. *Structure and Infrastructure Engineering*, **2018**, 14, 1573-1585	2.9	24
42	Longitudinal Joint Performance of a Concrete Hollow Core Slab Bridge. *Transportation Research Record*, **2018**, 2672, 196-206	1.7	6
41	Equivalent damping of bilinear hysteretic SDOF system considering the influence of initial elastic damping. *Soil Dynamics and Earthquake Engineering*, **2017**, 97, 74-85	3.5	7
40	Experimental and numerical investigation of the cyclic behaviour of an innovative prefabricated beam-to-column joint. *Engineering Structures*, **2017**, 150, 373-389	4.7	9
39	The optimal shapes of piles in integral abutment bridges. *Journal of Traffic and Transportation Engineering (English Edition)*, **2017**, 4, 576-593	3.9	9
38	Degrading Bouc–Wen Model Parameters Identification Under Cyclic Load. *International Journal of Geotechnical Earthquake Engineering*, **2017**, 8, 60-81	0.2	12
37	Optimal Design of Pile Foundation in Fully Integral Abutment Bridge. *Springer Tracts on Transportation and Traffic*, **2016**, 3-15	0.3	6
36	Optimization Indexes to Identify the Optimal Design Solution of Shell-Supported Bridges. *Journal of Bridge Engineering*, **2016**, 21, 04015067	2.7	13
35	Finite Element Model Updating of Canonica Bridge Using Experimental Modal Data and Genetic Algorithm. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2016**, 26, 27-36	1	14
34	Test study on residual stress distribution of hybrid steel u-rib stiffened plates. *Journal of Constructional Steel Research*, **2016**, 121, 261-267	3.8	21
33	Curved deck arch bridges supported by an inclined arch **2016**,		1
32	Comparison of Direct and Iterative Methods for Model Updating of a Curved Cable-stayed Bridge Using Experimental Modal Data **2016**,		2
31	An innovative steel-concrete joint for integral abutment bridges. *Journal of Traffic and Transportation Engineering (English Edition)*, **2015**, 2, 209-222	3.9	16

30	A repair and retrofitting intervention to improve plastic dissipation and shear strength of Chinese RC bridges **2015**,		16
29	Experimental study on K-joints of concrete-filled steel tubular truss structures. *Journal of Constructional Steel Research*, **2015**, 107, 182-193	3.8	27
28	Equivalent Viscous Damping of Bilinear Hysteretic Oscillators. *Journal of Structural Engineering*, **2015**, 141, 06015002	3	15
27	Curved shell-supported footbridges **2015**,		8
26	An improved equivalent linear model of seismic isolation system with bilinear behavior. *Engineering Structures*, **2014**, 61, 113-126	4.7	19
25	Evaluation of equivalent linearization analysis methods for seismically isolated buildings characterized by SDOF systems. *Engineering Structures*, **2014**, 59, 619-634	4.7	29
24	Shaking table tests for the evaluation of the seismic performance of an innovative lightweight bridge with CFST composite truss girder and lattice pier. *Engineering Structures*, **2014**, 75, 73-86	4.7	28
23	Improved equivalent viscous damping model for base-isolated structures with lead rubber bearings. *Engineering Structures*, **2014**, 75, 340-352	4.7	27
22	Simplified Linear Static Analysis for Base-Isolated Buildings with Friction Pendulum Systems. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2014**, 24, 490-502	1	1
21	Finite element model updating of a tied-arch bridge using Douglas-Reid method and Rosenbrock optimization algorithm. *Journal of Traffic and Transportation Engineering (English Edition)*, **2014**, 1, 280-292	3.9	18
20	Application of Topological Optimization to Bridge Design. *Journal of Bridge Engineering*, **2013**, 18, 790-800	2.7	24
19	Topology Optimization of Bridges Supported by a Concrete Shell. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2013**, 23, 285-294	1	22
18	Friction Pendulum System as a Retrofit Technique for Existing Reinforced Concrete Building. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2013**, 23, 219-224	1	6
17	Effects of debonding on circular CFST stub columns. *Journal of Constructional Steel Research*, **2012**, 69, 64-76	3.8	68
16	Analytical Formulation for Limit Length of Integral Abutment Bridges. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2011**, 21, 304-310	1	12
15	Parametric and pushover analyses on integral abutment bridge. *Engineering Structures*, **2011**, 33, 502-515	4.7	38
14	The Fourth Bridge over the Grand Canal in Venice: From Idea to Analysis and Construction. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2010**, 20, 6-12	1	3
13	Bridge Structural Optimization Through Step-by-Step Evolutionary Process. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2010**, 20, 72-78	1	15

12	Optimized Design for Soil-Pile Interaction and Abutment Size of Integral Abutment Bridges **2010**,		2
11	Tensegrity Bridge with Prestressed Deck **2010**,		3
10	Experimental Research on Debonding in Concrete-Filled Steel Tubes Columns Subjected to Eccentric Loading **2010**,		4
9	Nonlinear experimental response of non-conventional composite steel and concrete connection. *Frontiers of Architecture and Civil Engineering in China*, **2009**, 3, 42-49		5
8	Integral abutment bridge concept applied to the rehabilitation of a simply supported concrete structure. *Structural Concrete*, **2007**, 8, 25-33	2.6	13
7	Attainment of an Integral Abutment Bridge through the Refurbishment of a Simply Supported Structure. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2007**, 17, 228-234	1	15
6	Structural robustness of an RC pier under repeated earthquakes. *Proceedings of the Institution of Civil Engineers: Bridge Engineering*,1-20	0.5	1
5	Seismic assessment of corroded concrete bridges using incremental modal pushover analysis. *Proceedings of the Institution of Civil Engineers: Bridge Engineering*,1-29	0.5	0
4	Dynamic assessment, FE modelling and parametric updating of a butterfly-arch stress-ribbon pedestrian bridge. *Structure and Infrastructure Engineering*,1-12	2.9	0
3	Comparison of Form-finding Methods to Shape Concrete Shells for Curved Footbridges. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*,1-9	1	
2	Time-dependent cyclic behavior of reinforced concrete bridge columns under chlorides-induced corrosion and rebars buckling. *Structural Concrete*,	2.6	5
1	Effect of pinching on structural resilience: performance of reinforced concrete and timber structures under repeated cycles. *Structure and Infrastructure Engineering*,1-17	2.9	2