

Bruno Briseghella

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6224802/publications.pdf>

Version: 2024-02-01

127
papers

1,791
citations

279487

23
h-index

360668

35
g-index

130
all docs

130
docs citations

130
times ranked

982
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of ultra-high performance concrete and its application in bridge engineering. <i>Construction and Building Materials</i> , 2020, 260, 119844.	3.2	192
2	Effects of debonding on circular CFST stub columns. <i>Journal of Constructional Steel Research</i> , 2012, 69, 64-76.	1.7	100
3	Parametric and pushover analyses on integral abutment bridge. <i>Engineering Structures</i> , 2011, 33, 502-515.	2.6	53
4	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> , 2014, 75, 73-86.	2.6	47
5	Parameter identification of degrading and pinched hysteretic systems using a modified Boucâ€Wen model. <i>Structure and Infrastructure Engineering</i> , 2018, 14, 1573-1585.	2.0	43
6	Experimental study on K-joints of concrete-filled steel tubular truss structures. <i>Journal of Constructional Steel Research</i> , 2015, 107, 182-193.	1.7	42
7	Temperature Monitoring and Response of Deck-Extension Side-by-Side Box Girder Bridges. <i>Journal of Performance of Constructed Facilities</i> , 2020, 34, .	1.0	39
8	Evaluation of equivalent linearization analysis methods for seismically isolated buildings characterized by SDOF systems. <i>Engineering Structures</i> , 2014, 59, 619-634.	2.6	37
9	Experimental study on joint resistance and failure modes of concrete filled steel tubular (CFST) truss girders. <i>Journal of Constructional Steel Research</i> , 2018, 141, 241-250.	1.7	37
10	On the form of the Musmeciâ€™s bridge over the Basento river. <i>Engineering Structures</i> , 2019, 191, 658-673.	2.6	37
11	Improved equivalent viscous damping model for base-isolated structures with lead rubber bearings. <i>Engineering Structures</i> , 2014, 75, 340-352.	2.6	36
12	A corrosion model for the interpretation of cyclic behavior of reinforced concrete sections. <i>Structural Concrete</i> , 2020, 21, 1732-1746.	1.5	36
13	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> , 2018, 8, 1671.	1.3	35
14	Integral abutment bridges: Investigation of seismic soilâ€structure interaction effects by shaking table testing. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 1517-1538.	2.5	32
15	Application of Topological Optimization to Bridge Design. <i>Journal of Bridge Engineering</i> , 2013, 18, 790-800.	1.4	31
16	Timeâ€dependent cyclic behavior of reinforced concrete bridge columns under chloridesâ€induced corrosion and rebars buckling. <i>Structural Concrete</i> , 2022, 23, 81-103.	1.5	31
17	Test study on residual stress distribution of hybrid steel u-rib stiffened plates. <i>Journal of Constructional Steel Research</i> , 2016, 121, 261-267.	1.7	30
18	Ultra-High performance concrete (UHPC) with polypropylene (Pp) and steel Fibres: Investigation on the high temperature behaviour. <i>Construction and Building Materials</i> , 2021, 304, 124608.	3.2	28

#	ARTICLE	IF	CITATIONS
19	An improved equivalent linear model of seismic isolation system with bilinear behavior. <i>Engineering Structures</i> , 2014, 61, 113-126.	2.6	26
20	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> , 2014, 1, 280-292.	2.0	25
21	Relevant outcomes from the history of Polcevera Viaduct in Genova, from design to nowadays failure. <i>Journal of Civil Structural Health Monitoring</i> , 2020, 10, 87-107.	2.0	25
22	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> , 2013, 23, 285-294.	0.5	24
23	An innovative steel-concrete joint for integral abutment bridges. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2015, 2, 209-222.	2.0	24
24	Finite Element Analysis of Reinforced Concrete Bridge Piers Including a Flexure-Shear Interaction Model. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2209.	1.3	24
25	Finite element thermo-mechanical analysis of concrete box-girders. <i>Structures</i> , 2021, 33, 2424-2444.	1.7	24
26	Solar Radiation Parameters for Assessing Temperature Distributions on Bridge Cross-Sections. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 627.	1.3	23
27	Integral abutment bridge concept applied to the rehabilitation of a simply supported concrete structure. <i>Structural Concrete</i> , 2007, 8, 25-33.	1.5	22
28	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> , 2011, 21, 304-310.	0.5	22
29	Finite Element Model Updating of Canonica Bridge Using Experimental Modal Data and Genetic Algorithm. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2016, 26, 27-36.	0.5	22
30	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> , 2007, 17, 228-234.	0.5	21
31	Preliminary data and field observations of the 21st August 2017 Ischia earthquake. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 1221-1256.	2.3	21
32	Dynamic characteristics of a curved steel-concrete composite cable-stayed bridge and effects of different design choices. <i>Structures</i> , 2021, 34, 4669-4681.	1.7	21
33	A repair and retrofitting intervention to improve plastic dissipation and shear strength of Chinese rc bridges. <i>IABSE Symposium Report</i> , 2015, , .	0.0	20
34	Equivalent Viscous Damping of Bilinear Hysteretic Oscillators. <i>Journal of Structural Engineering</i> , 2015, 141, .	1.7	18
35	Optimal arches shape for single-point-supported deck bridges. <i>Acta Mechanica</i> , 2018, 229, 2291-2297.	1.1	18
36	Probabilistic seismic response and uncertainty analysis of continuous bridges under near-fault ground motions. <i>Frontiers of Structural and Civil Engineering</i> , 2019, 13, 1510-1519.	1.2	17

#	ARTICLE	IF	CITATIONS
37	A degrading Boucâ€Wen model for the hysteresis of reinforced concrete structural elements. <i>Structure and Infrastructure Engineering</i> , 2020, 16, 917-930.	2.0	17
38	Development and Validation of New Boucâ€Wen Data-Driven Hysteresis Model for Masonry Infilled RC Frames. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	1.6	17
39	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> , 2010, 20, 72-78.	0.5	16
40	Optimization Indexes to Identify the Optimal Design Solution of Shell-Supported Bridges. <i>Journal of Bridge Engineering</i> , 2016, 21, .	1.4	16
41	Influence of soil type on damping reduction factor: A stochastic analysis based on peak theory. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 104, 365-368.	1.9	16
42	Design and field tests of a deck-extension bridge with small box girder. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2018, 5, 467-479.	2.0	16
43	Longitudinal Joint Performance of a Concrete Hollow Core Slab Bridge. <i>Transportation Research Record</i> , 2018, 2672, 196-206.	1.0	16
44	Degrading Boucâ€Wen Model Parameters Identification Under Cyclic Load. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2017, 8, 60-81.	0.3	15
45	Optimum design of piles with pre-hole filled with high-damping material: Experimental tests and analytical modeling. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 151, 106995.	1.9	15
46	Optimal Design of Pile Foundation in Fully Integral Abutment Bridge. <i>Springer Tracts on Transportation and Traffic</i> , 2016, , 3-15.	0.2	13
47	Experimental and numerical investigation of the cyclic behaviour of an innovative prefabricated beam-to-column joint. <i>Engineering Structures</i> , 2017, 150, 373-389.	2.6	13
48	Seismic duration effect on damping reduction factor using random vibration theory. <i>Engineering Structures</i> , 2019, 179, 296-309.	2.6	13
49	The optimal shapes of piles in integral abutment bridges. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2017, 4, 576-593.	2.0	12
50	A Resilience-Based Model for the Seismic Assessment of the Functionality of Road Networks Affected by Bridge Damage and Restoration. <i>Infrastructures</i> , 2021, 6, 112.	1.4	12
51	Curved shell-supported footbridges. <i>IABSE Symposium Report</i> , 2015, , .	0.0	12
52	Temperatures and gradients in concrete Bridges: Experimental, finite element analysis and design. <i>Structures</i> , 2022, 37, 960-976.	1.7	12
53	Seismic Reassessment of the Leaning Tower of Pisa: Dynamic Monitoring, Site Response, and SSI. <i>Earthquake Spectra</i> , 2019, 35, 703-736.	1.6	11
54	Cable optimization of a cable-stayed bridge based on genetic algorithms and the influence matrix method. <i>Engineering Optimization</i> , 2022, 54, 20-39.	1.5	11

#	ARTICLE	IF	CITATIONS
55	Wireless-Based Identification and Model Updating of a Skewed Highway Bridge for Structural Health Monitoring. Applied Sciences (Switzerland), 2020, 10, 2347.	1.3	11
56	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.	1.3	11
57	Experimental and numerical investigation of the static performance of innovative prefabricated high-strength composite columns. Engineering Structures, 2018, 159, 227-244.	2.6	10
58	IMPA ² : Incremental Modal Pushover Analysis for Bridges. Applied Sciences (Switzerland), 2020, 10, 4287.	1.3	10
59	Photocatalytic concrete for degrading organic dyes in water. Environmental Science and Pollution Research, 2022, 29, 39027-39040.	2.7	10
60	Effect of pinching on structural resilience: performance of reinforced concrete and timber structures under repeated cycles. Structure and Infrastructure Engineering, 0, , 1-17.	2.0	10
61	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.	0.5	9
62	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.	1.0	9
63	Equivalent damping of bilinear hysteretic SDOF system considering the influence of initial elastic damping. Soil Dynamics and Earthquake Engineering, 2017, 97, 74-85.	1.9	8
64	Prediction of ultimate load capacities of CFST columns with debonding by EPR. Thin-Walled Structures, 2021, 164, 107912.	2.7	8
65	Simplified equivalent finite element modelling of concrete-filled steel tubular K-joints with and without studs. Engineering Structures, 2022, 266, 114634.	2.6	8
66	Nonlinear experimental response of non-conventional composite steel and concrete connection. Frontiers of Architecture and Civil Engineering in China, 2009, 3, 42-49.	0.4	7
67	Tensegrity Bridge with Prestressed Deck. IABSE Symposium Report, 2010, , .	0.0	7
68	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.	0.5	7
69	Lateral performance of midply wood shear walls with anchor tie-down system: Experimental investigation and numerical simulation. Construction and Building Materials, 2020, 235, 117518.	3.2	7
70	Effects of Excitation Bandwidth on Damping Reduction Factor. Journal of Earthquake Engineering, 2021, 25, 649-676.	1.4	7
71	Geometrical Parametric Study on Steel Beams Exposed to Solar Radiation. Applied Sciences (Switzerland), 2021, 11, 9198.	1.3	7
72	Volume/thrust optimal shape criteria for arches under static vertical loads. Journal of Traffic and Transportation Engineering (English Edition), 2018, 5, 503-509.	2.0	6

#	ARTICLE	IF	CITATIONS
73	Asynchronous earthquake strong motion and RC bridges response. Journal of Traffic and Transportation Engineering (English Edition), 2018, 5, 454-466.	2.0	6
74	Shell-supported footbridges. Curved and Layered Structures, 2020, 7, 199-214.	0.5	6
75	Experimental research on debonding in concrete-filled steel tubes columns subjected to eccentric loading. IABSE Symposium Report, 2010, , .	0.0	6
76	Dynamic assessment, FE modelling and parametric updating of a butterfly-arch stress-ribbon pedestrian bridge. Structure and Infrastructure Engineering, 0, , 1-12.	2.0	6
77	Curved footbridges supported by a shell obtained through thrust network analysis. Journal of Traffic and Transportation Engineering (English Edition), 2019, 6, 65-75.	2.0	5
78	Comparison of Direct and Iterative Methods for Model Updating of a Curved Cable-stayed Bridge Using Experimental Modal Data. IABSE Symposium Report, 2016, , .	0.0	5
79	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.	0.5	4
80	Application of the Incremental Modal Pushover Analysis to Bridges Subjected to Near-Fault Ground Motions. Applied Sciences (Switzerland), 2020, 10, 6738.	1.3	4
81	IMPA versus Cloud Analysis and IDA: Different Methods to Evaluate Structural Seismic Fragility. Applied Sciences (Switzerland), 2022, 12, 3687.	1.3	4
82	Finite element modelling and operational modal analysis of a curved cable stayed bridge in Venice. , 2008, , .		3
83	Optimized Design for Soil-Pile Interaction and Abutment Size of Integral Abutment Bridges. , 2010, , .		3
84	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.	0.5	3
85	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.	3.3	3
86	Seismic behavior of a low-rise horizontal cylindrical tank. International Journal of Advanced Structural Engineering, 2018, 10, 143-152.	1.3	3
87	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.	0.4	3
88	Optimal design criteria for form-finding of double-curved surfaces. Procedia Manufacturing, 2020, 44, 28-35.	1.9	3
89	Semi Static Loads in an Integral Abutment Bridge. , 2016, , .		3
90	Structural robustness of an RC pier under repeated earthquakes. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 0, , 1-8.	0.3	3

#	ARTICLE	IF	CITATIONS
91	Curved deck arch bridges supported by an inclined arch. , 2016, , .		3
92	Time-Dependent Analysis of Precast Segmental Bridges. International Journal of Concrete Structures and Materials, 2021, 15, .	1.4	2
93	Seismic Assessment of Reinforced Concrete Frames: Influence of Shear-Flexure Interaction and Rebar Corrosion. Lecture Notes in Computer Science, 2020, , 463-478.	1.0	2
94	Design and analysis of a variable stiffness movable footbridge. , 2002, , .		2
95	Pseudo-static Test on Mechanic Behavior of Pile with Pre-Hole filled by Foam in IABs. IABSE Symposium Report, 2019, , .	0.0	2
96	FRP Reinforcement to Retrofit Bridge Pier After Repair: Experimental Test Results. Lecture Notes in Civil Engineering, 2022, , 449-458.	0.3	2
97	Numerical simulation and simplified calculation of the effective slab width for composite cable-stayed bridges. Structures, 2022, 39, 512-526.	1.7	2
98	A composite integral bridge in Trento, Italy: Design and Analysis. , 2004, , 238.		1
99	Dynamic Assessment of a Curved Cable-Stayed Bridge Based on Multi-Year Monitoring. , 2012, , .		1
100	A Discrete Bond Law for Precast Panels Systems without Reinforcement. IABSE Symposium Report, 2014, , .	0.0	1
101	To compute or not to compute?. Journal of Traffic and Transportation Engineering (English Edition), 2019, 6, 85-93.	2.0	1
102	Numerical analyses on flexural performance of UHPC link slab- abutment backwall system in jointless bridges. , 2021, , .		1
103	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), 2021, 31, 527-535.	0.5	1
104	Chinese High Rise Reinforced Concrete Building Retrofitted with CLT Panels. Sustainability, 2021, 13, 9667.	1.6	1
105	A probabilistic evaluation of an integral abutment bridge. , 2016, , 267-267.		1
106	SEISMIC BEHAVIOUR OF NOVEL INTEGRAL ABUTMENT BRIDGES. NED University Journal of Research, 2019, 1, 1-20.	0.4	1
107	Research on Friction between Grade Flat Approach Slab and Sliding Material in Jointless Bridges. , 2019, , .		1
108	Dynamic Characterization of a Stress Ribbon and Butterfly Arch Pedestrian Bridge Using Wireless Measurements. Structural Integrity, 2020, , 395-403.	0.8	1

#	ARTICLE	IF	CITATIONS
109	Seismic assessment of corroded concrete bridges using incremental modal pushover analysis. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 0, , 1-29.	0.3	1
110	Adjustable Deck Solutions for "Veneto Strade" Flyovers. , 2004, , 242.		0
111	Structural optimization of a composite steel and concrete connection through FE analysis and testing. , 2008, , .		0
112	Cyclic Behaviour of Prefabricated High-Strength Concrete Composite Beam-to-Column Joints. , 2010, , .		0
113	Seismic Analysis of a Concrete Arch Bridge with Steel Tubular Truss Bridge. IABSE Symposium Report, 2014, , .	0.0	0
114	Influence of substructure height on fully integral abutment bridge in sand. IABSE Symposium Report, 2014, , .	0.0	0
115	Adaptive form-finding method for form-fixed spatial network structures. International Journal of Advanced Structural Engineering, 2018, 10, 99-109.	1.3	0
116	Comparative study on seismic design and check of piers by Chinese and European Codes. , 2021, , .		0
117	Numerical analyses of joint with steel endplates, headed stud anchors and concrete cross-beam in continuous steel-concrete composite girder bridges. , 2021, , .		0
118	The Impact of Corrosion on the Seismic Assessment of Reinforced Concrete Bridge Piers. Lecture Notes in Computer Science, 2021, , 718-725.	1.0	0
119	Numerical analyses on flexural performance of prefabricated UHPC link slab. , 2021, , .		0
120	Numerical analyses on mechanical performance of flat buried approach slab and soil deformation. , 2021, , .		0
121	Innovative solutions for retrofitting and new construction of bridge structures responding to new functional demands. , 2006, , .		0
122	Refurbishment of an arch bridge increasing its stiffness and reducing its weight. IABSE Symposium Report, 2007, , .	0.0	0
123	E-Learning, The future of Structural Engineering Education?. IABSE Symposium Report, 2015, , .	0.0	0
124	Research on Effective Temperature of T-shaped Girder for Jointless Bridges in China. , 2019, , .		0
125	Nonlinear Static Analysis by Finite Elements of a Fujian Hakka Tulou. IABSE Symposium Report, 2019, , .	0.0	0
126	Experimental Research on Effects of Debonding on Circular CFST Columns with Different Slenderness Ratios. Structural Integrity, 2020, , 369-377.	0.8	0

#	ARTICLE	IF	CITATIONS
127	Structural stress analyses of long-span railway extradosed cable- stayed bridge based on reasonable construction state. IABSE Symposium Report, 2022, , .	0.0	0