

You Dong

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.

82
papers

1,527
citations

22
h-index

37
g-index

88
ext. papers

2,097
ext. citations

3.7
avg, IF

5.87
L-index

#	Paper	IF	Citations
82	Risk and resilience assessment of bridges under mainshock and aftershocks incorporating uncertainties. <i>Engineering Structures</i> , 2015 , 83, 198-208	4.7	123
81	Bridge life-cycle performance and cost: analysis, prediction, optimisation and decision-making Based on the T.Y. Lin plenary lecture and the associated paper presented at the 8th International Conference on Bridge Maintenance, Safety and Management (IABMAS2016), Iguassu Falls, Paraná, Brazil, 26-30 June, 2016. View all notes. <i>Structure and Infrastructure Engineering</i> , 2017 , 12, 830-847	2.9	122
80	Time-variant sustainability assessment of seismically vulnerable bridges subjected to multiple hazards. <i>Earthquake Engineering and Structural Dynamics</i> , 2013 , 42, 1451-1467	4	122
79	Resilience and life-cycle performance of smart bridges with shape memory alloy (SMA)-cable-based bearings. <i>Construction and Building Materials</i> , 2018 , 158, 389-400	6.7	79
78	Probabilistic Time-Dependent Multihazard Life-Cycle Assessment and Resilience of Bridges Considering Climate Change. <i>Journal of Performance of Constructed Facilities</i> , 2016 , 30, 04016034	2	77
77	Sustainability-informed maintenance optimization of highway bridges considering multi-attribute utility and risk attitude. <i>Engineering Structures</i> , 2015 , 102, 310-321	4.7	60
76	Risk-informed life-cycle optimum inspection and maintenance of ship structures considering corrosion and fatigue. <i>Ocean Engineering</i> , 2015 , 101, 161-171	3.9	60
75	Sustainability of Highway Bridge Networks Under Seismic Hazard. <i>Journal of Earthquake Engineering</i> , 2014 , 18, 41-66	1.8	59
74	Performance-based seismic assessment of conventional and base-isolated steel buildings including environmental impact and resilience. <i>Earthquake Engineering and Structural Dynamics</i> , 2016 , 45, 739-756 ⁴		44
73	Pre-Earthquake Multi-Objective Probabilistic Retrofit Optimization of Bridge Networks Based on Sustainability. <i>Journal of Bridge Engineering</i> , 2014 , 19, 04014018	2.7	42
72	Optimizing Bridge Network Retrofit Planning Based on Cost-Benefit Evaluation and Multi-Attribute Utility Associated with Sustainability. <i>Earthquake Spectra</i> , 2015 , 31, 2255-2280	3.4	36
71	Performance assessment and design of ultra-high performance concrete (UHPC) structures incorporating life-cycle cost and environmental impacts. <i>Construction and Building Materials</i> , 2018 , 167, 414-425	6.7	34
70	Incorporation of risk and updating in inspection of fatigue-sensitive details of ship structures. <i>International Journal of Fatigue</i> , 2016 , 82, 676-688	5	34
69	Time-variant reliability analysis of widened deteriorating prestressed concrete bridges considering shrinkage and creep. <i>Engineering Structures</i> , 2017 , 153, 1-16	4.7	33
68	Assessment of Risk Using Bridge Element Condition Ratings. <i>Journal of Infrastructure Systems</i> , 2013 , 19, 252-265	2.9	33
67	Performance-based assessment of bridges with steel-SMA reinforced piers in a life-cycle context by numerical approach. <i>Bulletin of Earthquake Engineering</i> , 2019 , 17, 1667-1688	3.7	33
66	Life cycle utility-informed maintenance planning based on lifetime functions: optimum balancing of cost, failure consequences and performance benefit. <i>Structure and Infrastructure Engineering</i> , 2016 , 12, 830-847	2.9	32

65	Hierarchical life-cycle design of reinforced concrete structures incorporating durability, economic efficiency and green objectives. <i>Engineering Structures</i> , 2018 , 157, 119-131	4.7	32
64	Long-term resilience and loss assessment of highway bridges under multiple natural hazards. <i>Structure and Infrastructure Engineering</i> , 2020 , 16, 626-641	2.9	32
63	Probabilistic assessment of an interdependent healthcareBridge network system under seismic hazard. <i>Structure and Infrastructure Engineering</i> , 2017 , 13, 160-170	2.9	28
62	Probabilistic ship collision risk and sustainability assessment considering risk attitudes. <i>Structural Safety</i> , 2015 , 53, 75-84	4.9	27
61	Seismic fragility assessment of large-scale pile-supported wharf structures considering soil-pile interaction. <i>Engineering Structures</i> , 2019 , 186, 270-281	4.7	23
60	Multi-hazard vulnerability of structures and lifelines due to the 2015 Gorkha earthquake and 2017 central Nepal flash flood. <i>Journal of Building Engineering</i> , 2018 , 17, 196-201	5.2	21
59	Probabilistic life-cycle cost-benefit analysis of portfolios of buildings under flood hazard. <i>Engineering Structures</i> , 2017 , 142, 290-299	4.7	18
58	Normalization of correlated random variables in structural reliability analysis using fourth-moment transformation. <i>Structural Safety</i> , 2020 , 82, 101888	4.9	18
57	A decision support system for mission-based ship routing considering multiple performance criteria. <i>Reliability Engineering and System Safety</i> , 2016 , 150, 190-201	6.3	17
56	Seismic loss and resilience assessment of single-column rocking bridges. <i>Bulletin of Earthquake Engineering</i> , 2020 , 18, 4481-4513	3.7	17
55	Performance-based probabilistic framework for seismic risk, resilience, and sustainability assessment of reinforced concrete structures. <i>Advances in Structural Engineering</i> , 2020 , 23, 1454-1472	1.9	16
54	Time-Dependent Reliability and Redundancy of Corroded Prestressed Concrete Bridges at Material, Component, and System Levels. <i>Journal of Bridge Engineering</i> , 2019 , 24, 04019085	2.7	15
53	Experimental and 3D numerical investigation of solitary wave forces on coastal bridges. <i>Ocean Engineering</i> , 2020 , 209, 107499	3.9	13
52	Multi-criteria decision making for seismic intensity measure selection considering uncertainty. <i>Earthquake Engineering and Structural Dynamics</i> , 2020 , 49, 1095-1114	4	13
51	Efficient Uncertainty Quantification of Wharf Structures under Seismic Scenarios Using Gaussian Process Surrogate Model. <i>Journal of Earthquake Engineering</i> , 2021 , 25, 117-138	1.8	13
50	Fast integration algorithms for time-dependent structural reliability analysis considering correlated random variables. <i>Structural Safety</i> , 2019 , 78, 23-32	4.9	10
49	Bond behavior between multi-strand tendons and surrounding grout: Interface equivalent modeling method. <i>Construction and Building Materials</i> , 2019 , 226, 61-71	6.7	10
48	Optimal restoration schedules of transportation network considering resilience. <i>Structure and Infrastructure Engineering</i> , 2020 , 1-14	2.9	10

47	Durability assessment of reinforced concrete structures considering global warming: A performance-based engineering and experimental approach. <i>Construction and Building Materials</i> , 2020 , 233, 117251	6.7	10
46	Accelerated Construction of Self-Anchored Suspension Bridge Using Novel Tower-Girder Anchorage Technique. <i>Journal of Bridge Engineering</i> , 2019 , 24, 05019006	2.7	9
45	Seismic resilience of retrofitted RC buildings. <i>Earthquake Engineering and Engineering Vibration</i> , 2020 , 19, 561-571	2	9
44	Nonlinear stability analysis of steel cooling towers considering imperfection sensitivity. <i>Thin-Walled Structures</i> , 2020 , 146, 106448	4.7	9
43	Novel Technique for Configuration Transformation of 3D Curved Cables of Suspension Bridges: Application to the Dongtiao River Bridge. <i>Journal of Performance of Constructed Facilities</i> , 2018 , 32, 04018045	2.8	9
42	Higher-order analysis of probabilistic long-term loss under nonstationary hazards. <i>Reliability Engineering and System Safety</i> , 2020 , 203, 107092	6.3	8
41	Adaptation Optimization of Residential Buildings under Hurricane Threat Considering Climate Change in a Lifecycle Context. <i>Journal of Performance of Constructed Facilities</i> , 2017 , 31, 04017099	2	8
40	Probabilistic failure analysis, performance assessment, and sensitivity analysis of corroded reinforced concrete structures. <i>Engineering Failure Analysis</i> , 2021 , 124, 105328	3.2	7
39	Performance-based risk assessment of reinforced concrete bridge piers subjected to vehicle collision. <i>Engineering Structures</i> , 2021 , 229, 111640	4.7	6
38	Application of PZT Technology and Clustering Algorithm for Debonding Detection of Steel-UHPC Composite Slabs. <i>Sensors</i> , 2018 , 18,	3.8	6
37	Probabilistic performance of coastal bridges under hurricane waves using experimental and 3D numerical investigations. <i>Engineering Structures</i> , 2021 , 242, 112493	4.7	6
36	Two-step translation method for time-dependent reliability of structures subject to both continuous deterioration and sudden events. <i>Engineering Structures</i> , 2020 , 225, 111291	4.7	5
35	Life-Cycle Cost Analysis of Deteriorating Civil Infrastructures Incorporating Social Sustainability. <i>Journal of Infrastructure Systems</i> , 2021 , 27,	2.9	5
34	Uncertainty and multi-criteria global sensitivity analysis of structural systems using acceleration algorithm and sparse polynomial chaos expansion. <i>Mechanical Systems and Signal Processing</i> , 2022 , 163, 108120	7.8	5
33	A Novel Construction Technology for Self-Anchored Suspension Bridge Considering Safety and Sustainability Performance. <i>Sustainability</i> , 2020 , 12, 2973	3.6	4
32	Seismic performance assessment of a pile-supported wharf retrofitted with different slope strengthening strategies. <i>Soil Dynamics and Earthquake Engineering</i> , 2020 , 129, 105903	3.5	4
31	Copula-Based Vulnerability Analysis of Civil Infrastructure Subjected to Hurricanes. <i>Frontiers in Built Environment</i> , 2020 , 6,	2.2	4
30	Long-term loss assessment of coastal bridges from hurricanes incorporating overturning failure mode. <i>Advances in Bridge Engineering</i> , 2021 , 2,	1.1	4

29	Full-scale experimental and numerical investigation on the ductility, plastic redistribution, and redundancy of deteriorated concrete bridges. <i>Engineering Structures</i> , 2021 , 234, 111930	4.7	4
28	Seismic performance of bridges with ECC-reinforced piers. <i>Soil Dynamics and Earthquake Engineering</i> , 2021 , 146, 106753	3.5	4
27	Reliability-based retrofit assessment of coastal bridges subjected to wave forces using 3D CFD simulation and metamodeling. <i>Civil Engineering and Environmental Systems</i> , 2021 , 38, 59-83	2.1	4
26	A Comparative Study on the Efficiency of Reliability Methods for the Probabilistic Analysis of Local Scour at a Bridge Pier in Clay-Sand-Mixed Sediments. <i>Modelling</i> , 2021 , 2, 63-77	2.5	4
25	Bridging Multi-hazard Vulnerability and Sustainability: Approaches and Applications to Nepali Highway Bridges 2019 , 361-378		3
24	Prediction of fatigue damage in ribbed steel bars under cyclic loading with a magneto-mechanical coupling model. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 530, 167943	2.8	3
23	Risk-, resilience-, and sustainability-informed assessment and management of civil infrastructure in a life-cycle context. <i>Structure and Infrastructure Engineering</i> , 2021 , 17, 441-442	2.9	3
22	Monitoring dynamic characteristics of 600 m+ Shanghai Tower during two consecutive typhoons. <i>Structural Control and Health Monitoring</i> , 2021 , 28, e2666	4.5	3
21	Performance-based decision-making of buildings under seismic hazard considering long-term loss, sustainability, and resilience. <i>Structure and Infrastructure Engineering</i> , 2021 , 17, 454-470	2.9	3
20	Wind characteristics atop Shanghai Tower during typhoon Jongdari using field monitoring data. <i>Journal of Building Engineering</i> , 2021 , 33, 101815	5.2	3
19	High-efficient decoupling method for coupling systems with multiple subdomains and time steps. <i>Mechanical Systems and Signal Processing</i> , 2022 , 163, 108159	7.8	3
18	Spatial failure mechanism of coastal bridges under extreme waves using high-efficient pseudo-fluid-structure interaction solution scheme. <i>Ocean Engineering</i> , 2021 , 240, 109894	3.9	2
17	Design and construction of the Second Humen Bridge, China. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2019 , 172, 161-166	0.4	2
16	Time-Dependent Reliability Analysis Based on Point-Evolution Kernel Density Estimation: Comprehensive Approach with Continuous and Shock Deterioration and Maintenance. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2021 , 7, 04021032	1.7	2
15	Comparative life cycle assessment of composite structures incorporating uncertainty and global sensitivity analysis. <i>Engineering Structures</i> , 2021 , 242, 112394	4.7	2
14	Practical Applications of Life-Cycle Considerations in Sustainable Development of Infrastructure 2014 ,		1
13	Performance-Based Bi-Objective Retrofit Optimization of Building Portfolios Considering Uncertainties and Environmental Impacts. <i>Buildings</i> , 2022 , 12, 85	3.2	1
12	Life cycle utility-informed maintenance planning based on lifetime functions: optimum balancing of cost, failure consequences and performance benefit		1

11	Life-Cycle Performance of Infrastructure Networks 2019 , 65-94		1
10	Prediction of dry shrinkage deformation for partially enclosed steel reinforced concrete columns. <i>Journal of Building Engineering</i> , 2021 , 44, 102675	5.2	1
9	Response-based bridge deck limit state considering component-level failure under extreme wave. <i>Marine Structures</i> , 2022 , 83, 103184	3.8	1
8	Tension Force Estimation of Cables with Two Intermediate Supports. <i>International Journal of Structural Stability and Dynamics</i> , 2020 , 20, 2050032	1.9	0
7	Efficient subset simulation for rare-event integrating point-evolution kernel density and adaptive polynomial chaos kriging. <i>Mechanical Systems and Signal Processing</i> , 2022 , 169, 108762	7.8	0
6	The Performance Study on the Long-Span Bridge Involving the Wireless Sensor Network Technology in a Big Data Environment. <i>Complexity</i> , 2018 , 2018, 1-13	1.6	0
5	Experimental and numerical investigation on wave impacts on box-girder bridges. <i>Structure and Infrastructure Engineering</i> , 1-19	2.9	0
4	Surrogate-assisted seismic performance assessment incorporating vine copula captured dependence. <i>Engineering Structures</i> , 2022 , 257, 114073	4.7	0
3	Evaluation of shear lag effect in HSS-UHPC composite beams with perfobond strip connectors: Experimental and numerical studies. <i>Journal of Constructional Steel Research</i> , 2022 , 194, 107312	3.8	0
2	Seismic risk assessment of transportation networks 2022 , 321-351		
1	Probabilistic Long-Term Resilience of Bridges under Seismic and Deterioration Processes. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 1-33	0.5	