You Dong

List of Publications by Year in Descending Order

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	Performance-Based Bi-Objective Retrofit Optimization of Building Portfolios Considering Uncertainties and Environmental Impacts. *Buildings*, **2022**, 12, 85	3.2	1
81	Seismic risk assessment of transportation networks **2022**, 321-351		
80	Efficient subset simulation for rare-event integrating point-evolution kernel density and adaptive polynomial chaos kriging. *Mechanical Systems and Signal Processing*, **2022**, 169, 108762	7.8	0
79	High-efficient decoupling method for coupling systems with multiple subdomains and time steps. *Mechanical Systems and Signal Processing*, **2022**, 163, 108159	7.8	3
78	Uncertainty and multi-criteria global sensitivity analysis of structural systems using acceleration algorithm and sparse polynomial chaos expansion. *Mechanical Systems and Signal Processing*, **2022**, 163, 108120	7.8	5
77	Surrogate-assisted seismic performance assessment incorporating vine copula captured dependence. *Engineering Structures*, **2022**, 257, 114073	4.7	0
76	Response-based bridge deck limit state considering component-level failure under extreme wave. *Marine Structures*, **2022**, 83, 103184	3.8	1
75	Evaluation of shear lag effect in HSS-UHPC composite beams with perfobond strip connectors: Experimental and numerical studies. *Journal of Constructional Steel Research*, **2022**, 194, 107312	3.8	0
74	Spatial failure mechanism of coastal bridges under extreme waves using high-efficient pseudo-fluid-structure interaction solution scheme. *Ocean Engineering*, **2021**, 240, 109894	3.9	2
73	Long-term loss assessment of coastal bridges from hurricanes incorporating overturning failure mode. *Advances in Bridge Engineering*, **2021**, 2,	1.1	4
72	Full-scale experimental and numerical investigation on the ductility, plastic redistribution, and redundancy of deteriorated concrete bridges. *Engineering Structures*, **2021**, 234, 111930	4.7	4
71	Probabilistic failure analysis, performance assessment, and sensitivity analysis of corroded reinforced concrete structures. *Engineering Failure Analysis*, **2021**, 124, 105328	3.2	7
70	Seismic performance of bridges with ECC-reinforced piers. *Soil Dynamics and Earthquake Engineering*, **2021**, 146, 106753	3.5	4
69	Prediction of fatigue damage in ribbed steel bars under cyclic loading with a magneto-mechanical coupling model. *Journal of Magnetism and Magnetic Materials*, **2021**, 530, 167943	2.8	3
68	Efficient Uncertainty Quantification of Wharf Structures under Seismic Scenarios Using Gaussian Process Surrogate Model. *Journal of Earthquake Engineering*, **2021**, 25, 117-138	1.8	13
67	Risk-, resilience-, and sustainability-informed assessment and management of civil infrastructure in a life-cycle context. *Structure and Infrastructure Engineering*, **2021**, 17, 441-442	2.9	3
66	Monitoring dynamic characteristics of 600 m+ Shanghai Tower during two consecutive typhoons. *Structural Control and Health Monitoring*, **2021**, 28, e2666	4.5	3

65	Performance-based decision-making of buildings under seismic hazard considering long-term loss, sustainability, and resilience. *Structure and Infrastructure Engineering*, **2021**, 17, 454-470	2.9	3
64	Performance-based risk assessment of reinforced concrete bridge piers subjected to vehicle collision. *Engineering Structures*, **2021**, 229, 111640	4.7	6
63	Wind characteristics atop Shanghai Tower during typhoon Jongdari using field monitoring data. *Journal of Building Engineering*, **2021**, 33, 101815	5.2	3
62	Reliability-based retrofit assessment of coastal bridges subjected to wave forces using 3D CFD simulation and metamodeling. *Civil Engineering and Environmental Systems*, **2021**, 38, 59-83	2.1	4
61	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. *Modelling*, **2021**, 2, 63-77	2.5	4
60	Life-Cycle Cost Analysis of Deteriorating Civil Infrastructures Incorporating Social Sustainability. *Journal of Infrastructure Systems*, **2021**, 27,	2.9	5
59	Probabilistic performance of coastal bridges under hurricane waves using experimental and 3D numerical investigations. *Engineering Structures*, **2021**, 242, 112493	4.7	6
58	Time-Dependent Reliability Analysis Based on Point-Evolution Kernel Density Estimation: Comprehensive Approach with Continuous and Shock Deterioration and Maintenance. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, **2021**, 7, 04021032	1.7	2
57	Comparative life cycle assessment of composite structures incorporating uncertainty and global sensitivity analysis. *Engineering Structures*, **2021**, 242, 112394	4.7	2
56	Prediction of dry shrinkage deformation for partially enclosed steel reinforced concrete columns. *Journal of Building Engineering*, **2021**, 44, 102675	5.2	1
55	Experimental and 3D numerical investigation of solitary wave forces on coastal bridges. *Ocean Engineering*, **2020**, 209, 107499	3.9	13
54	Tension Force Estimation of Cables with Two Intermediate Supports. *International Journal of Structural Stability and Dynamics*, **2020**, 20, 2050032	1.9	0
53	Higher-order analysis of probabilistic long-term loss under nonstationary hazards. *Reliability Engineering and System Safety*, **2020**, 203, 107092	6.3	8
52	A Novel Construction Technology for Self-Anchored Suspension Bridge Considering Safety and Sustainability Performance. *Sustainability*, **2020**, 12, 2973	3.6	4
51	Multi-criteria decision making for seismic intensity measure selection considering uncertainty. *Earthquake Engineering and Structural Dynamics*, **2020**, 49, 1095-1114	4	13
50	Seismic loss and resilience assessment of single-column rocking bridges. *Bulletin of Earthquake Engineering*, **2020**, 18, 4481-4513	3.7	17
49	Seismic performance assessment of a pile-supported wharf retrofitted with different slope strengthening strategies. *Soil Dynamics and Earthquake Engineering*, **2020**, 129, 105903	3.5	4
48	Long-term resilience and loss assessment of highway bridges under multiple natural hazards. *Structure and Infrastructure Engineering*, **2020**, 16, 626-641	2.9	32

47	Performance-based probabilistic framework for seismic risk, resilience, and sustainability assessment of reinforced concrete structures. *Advances in Structural Engineering*, **2020**, 23, 1454-1472	1.9	16
46	Two-step translation method for time-dependent reliability of structures subject to both continuous deterioration and sudden events. *Engineering Structures*, **2020**, 225, 111291	4.7	5
45	Seismic resilience of retrofitted RC buildings. *Earthquake Engineering and Engineering Vibration*, **2020**, 19, 561-571	2	9
44	Copula-Based Vulnerability Analysis of Civil Infrastructure Subjected to Hurricanes. *Frontiers in Built Environment*, **2020**, 6,	2.2	4
43	Optimal restoration schedules of transportation network considering resilience. *Structure and Infrastructure Engineering*, **2020**, 1-14	2.9	10
42	Nonlinear stability analysis of steel cooling towers considering imperfection sensitivity. *Thin-Walled Structures*, **2020**, 146, 106448	4.7	9
41	Durability assessment of reinforced concrete structures considering global warming: A performance-based engineering and experimental approach. *Construction and Building Materials*, **2020**, 233, 117251	6.7	10
40	Normalization of correlated random variables in structural reliability analysis using fourth-moment transformation. *Structural Safety*, **2020**, 82, 101888	4.9	18
39	Fast integration algorithms for time-dependent structural reliability analysis considering correlated random variables. *Structural Safety*, **2019**, 78, 23-32	4.9	10
38	Time-Dependent Reliability and Redundancy of Corroded Prestressed Concrete Bridges at Material, Component, and System Levels. *Journal of Bridge Engineering*, **2019**, 24, 04019085	2.7	15
37	Bridging Multi-hazard Vulnerability and Sustainability: Approaches and Applications to Nepali Highway Bridges **2019**, 361-378		3
36	Accelerated Construction of Self-Anchored Suspension Bridge Using Novel Tower-Girder Anchorage Technique. *Journal of Bridge Engineering*, **2019**, 24, 05019006	2.7	9
35	Seismic fragility assessment of large-scale pile-supported wharf structures considering soil-pile interaction. *Engineering Structures*, **2019**, 186, 270-281	4.7	23
34	Bond behavior between multi-strand tendons and surrounding grout: Interface equivalent modeling method. *Construction and Building Materials*, **2019**, 226, 61-71	6.7	10
33	Life-Cycle Performance of Infrastructure Networks **2019**, 65-94		1
32	Performance-based assessment of bridges with steel-SMA reinforced piers in a life-cycle context by numerical approach. *Bulletin of Earthquake Engineering*, **2019**, 17, 1667-1688	3.7	33
31	Design and construction of the Second Humen Bridge, China. *Proceedings of the Institution of Civil Engineers: Civil Engineering*, **2019**, 172, 161-166	0.4	2
30	Performance assessment and design of ultra-high performance concrete (UHPC) structures incorporating life-cycle cost and environmental impacts. *Construction and Building Materials*, **2018**, 167, 414-425	6.7	34

29	Multi-hazard vulnerability of structures and lifelines due to the 2015 Gorkha earthquake and 2017 central Nepal flash flood. *Journal of Building Engineering*, **2018**, 17, 196-201	5.2	21
28	Hierarchical life-cycle design of reinforced concrete structures incorporating durability, economic efficiency and green objectives. *Engineering Structures*, **2018**, 157, 119-131	4.7	32
27	Resilience and life-cycle performance of smart bridges with shape memory alloy (SMA)-cable-based bearings. *Construction and Building Materials*, **2018**, 158, 389-400	6.7	79
26	Application of PZT Technology and Clustering Algorithm for Debonding Detection of Steel-UHPC Composite Slabs. *Sensors*, **2018**, 18,	3.8	6
25	The Performance Study on the Long-Span Bridge Involving the Wireless Sensor Network Technology in a Big Data Environment. *Complexity*, **2018**, 2018, 1-13	1.6	0
24	Novel Technique for Configuration Transformation of 3D Curved Cables of Suspension Bridges: Application to the Dongtiao River Bridge. *Journal of Performance of Constructed Facilities*, **2018**, 32, 04018045	2	9
23	Bridge life-cycle performance and cost: analysis, prediction, optimisation and decision-makingBased 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, Paran□Brazil, 26□0 June, 2016.View all notes. *Structure and Infrastructure Engineering*, **2017**,	2.9	122
22	Probabilistic life-cycle cost-benefit analysis of portfolios of buildings under flood hazard. *Engineering Structures*, **2017**, 142, 290-299	4.7	18
21	Time-variant reliability analysis of widened deteriorating prestressed concrete bridges considering shrinkage and creep. *Engineering Structures*, **2017**, 153, 1-16	4.7	33
20	Adaptation Optimization of Residential Buildings under Hurricane Threat Considering Climate Change in a Lifecycle Context. *Journal of Performance of Constructed Facilities*, **2017**, 31, 04017099	2	8
19	Probabilistic assessment of an interdependent healthcare□bridge network system under seismic hazard. *Structure and Infrastructure Engineering*, **2017**, 13, 160-170	2.9	28
18	Life cycle utility-informed maintenance planning based on lifetime functions: optimum balancing of cost, failure consequences and performance benefit. *Structure and Infrastructure Engineering*, **2016**, 12, 830-847	2.9	32
17	Performance-based seismic assessment of conventional and base-isolated steel buildings including environmental impact and resilience. *Earthquake Engineering and Structural Dynamics*, **2016**, 45, 739-756	4	44
16	A decision support system for mission-based ship routing considering multiple performance criteria. *Reliability Engineering and System Safety*, **2016**, 150, 190-201	6.3	17
15	Incorporation of risk and updating in inspection of fatigue-sensitive details of ship structures. *International Journal of Fatigue*, **2016**, 82, 676-688	5	34
14	Probabilistic Time-Dependent Multihazard Life-Cycle Assessment and Resilience of Bridges Considering Climate Change. *Journal of Performance of Constructed Facilities*, **2016**, 30, 04016034	2	77
13	Sustainability-informed maintenance optimization of highway bridges considering multi-attribute utility and risk attitude. *Engineering Structures*, **2015**, 102, 310-321	4.7	60
12	Risk and resilience assessment of bridges under mainshock and aftershocks incorporating uncertainties. *Engineering Structures*, **2015**, 83, 198-208	4.7	123

11	Risk-informed life-cycle optimum inspection and maintenance of ship structures considering corrosion and fatigue. *Ocean Engineering*, **2015**, 101, 161-171	3.9	60
10	Optimizing Bridge Network Retrofit Planning Based on Cost-Benefit Evaluation and Multi-Attribute Utility Associated with Sustainability. *Earthquake Spectra*, **2015**, 31, 2255-2280	3.4	36
9	Probabilistic ship collision risk and sustainability assessment considering risk attitudes. *Structural Safety*, **2015**, 53, 75-84	4.9	27
8	Sustainability of Highway Bridge Networks Under Seismic Hazard. *Journal of Earthquake Engineering*, **2014**, 18, 41-66	1.8	59
7	Practical Applications of Life-Cycle Considerations in Sustainable Development of Infrastructure **2014**,		1
6	Pre-Earthquake Multi-Objective Probabilistic Retrofit Optimization of Bridge Networks Based on Sustainability. *Journal of Bridge Engineering*, **2014**, 19, 04014018	2.7	42
5	Assessment of Risk Using Bridge Element Condition Ratings. *Journal of Infrastructure Systems*, **2013** , 19, 252-265	2.9	33
4	Time-variant sustainability assessment of seismically vulnerable bridges subjected to multiple hazards. *Earthquake Engineering and Structural Dynamics*, **2013**, 42, 1451-1467	4	122
3	Probabilistic Long-Term Resilience of Bridges under Seismic and Deterioration Processes. *Proceedings of the Institution of Civil Engineers: Bridge Engineering*,1-33	0.5	
2	Life cycle utility-informed maintenance planning based on lifetime functions: optimum balancing of cost, failure consequences and performance benefit		1
1	Experimental and numerical investigation on wave impacts on box-girder bridges. *Structure and Infrastructure Engineering*,1-19	2.9	0