

# David Y Yang

## List of Publications by Citations

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**Version:** 2024-04-28

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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.

33  
papers

390  
citations

13  
h-index

18  
g-index

35  
ext. papers

552  
ext. citations

3.4  
avg, IF

4.84  
L-index

#	Paper	IF	Citations
33	Lifetime reliability-based optimization of post-tensioned box-girder bridges. <i>Engineering Structures</i> , <b>2017</b> , 145, 381-391	4.7	44
32	Probabilistic optimization framework for inspection/repair planning of fatigue-critical details using dynamic Bayesian networks. <i>Computers and Structures</i> , <b>2018</b> , 198, 40-50	4.5	29
31	Life-cycle management of deteriorating civil infrastructure considering resilience to lifetime hazards: A general approach based on renewal-reward processes. <i>Reliability Engineering and System Safety</i> , <b>2019</b> , 183, 197-212	6.3	29
30	Probabilistic life-cycle optimization of durability-enhancing maintenance actions: Application to FRP strengthening planning. <i>Engineering Structures</i> , <b>2019</b> , 188, 340-349	4.7	28
29	Sustainability-Informed Bridge Ranking under Scour Based on Transportation Network Performance and Multiattribute Utility. <i>Journal of Bridge Engineering</i> , <b>2018</b> , 23, 04018082	2.7	27
28	Cross-entropy-based adaptive importance sampling for time-dependent reliability analysis of deteriorating structures. <i>Structural Safety</i> , <b>2017</b> , 66, 38-50	4.9	23
27	Risk-Informed Bridge Ranking at Project and Network Levels. <i>Journal of Infrastructure Systems</i> , <b>2018</b> , 24, 04018018	2.9	21
26	Physics-Based Assessment of Climate Change Impact on Long-Term Regional Bridge Scour Risk Using Hydrologic Modeling: Application to Lehigh River Watershed. <i>Journal of Bridge Engineering</i> , <b>2019</b> , 24, 04019099	2.7	20
25	Network-Level Risk-Based Framework for Optimal Bridge Adaptation Management Considering Scour and Climate Change. <i>Journal of Infrastructure Systems</i> , <b>2020</b> , 26, 04019037	2.9	19
24	Societal risk assessment of transportation networks under uncertainties due to climate change and population growth. <i>Structural Safety</i> , <b>2019</b> , 78, 33-47	4.9	18
23	Evidence-based framework for real-time life-cycle management of fatigue-critical details of structures. <i>Structure and Infrastructure Engineering</i> , <b>2018</b> , 14, 509-522	2.9	17
22	Life-cycle management of deteriorating bridge networks with network-level risk bounds and system reliability analysis. <i>Structural Safety</i> , <b>2020</b> , 83, 101911	4.9	16
21	Time-variant reliability analysis of steel plates in marine environments considering pit nucleation and propagation. <i>Probabilistic Engineering Mechanics</i> , <b>2019</b> , 57, 32-42	2.6	15
20	Bridge Load Testing: State-of-the-Practice. <i>Journal of Bridge Engineering</i> , <b>2021</b> , 26, 03120002	2.7	10
19	Probabilistic Life-Cycle Management Framework for Ship Structures Subjected to Coupled Corrosion/Fatigue Deterioration Processes. <i>Journal of Structural Engineering</i> , <b>2019</b> , 145, 04019116	3	9
18	Risk-based portfolio management of civil infrastructure assets under deep uncertainties associated with climate change: a robust optimisation approach. <i>Structure and Infrastructure Engineering</i> , <b>2020</b> , 16, 531-546	2.9	9
17	Inclusion of environmental impacts in life-cycle cost analysis of bridge structures. <i>Sustainable and Resilient Infrastructure</i> , <b>2020</b> , 5, 252-267	3.3	7

16	Optimum maintenance of deteriorated steel bridges using corrosion resistant steel based on system reliability and life-cycle cost. <i>Engineering Structures</i> , <b>2021</b> , 243, 112633	4.7	7
15	Probabilistic cost-benefit analysis for service life extension of ships. <i>Ocean Engineering</i> , <b>2020</b> , 201, 107094	3.9	5
14	Error analysis for approximate structural life-cycle reliability and risk using machine learning methods. <i>Structural Safety</i> , <b>2021</b> , 89, 102033	4.9	5
13	Risk-Based Vulnerability Analysis of Deteriorating Coastal Bridges under Hurricanes Considering Deep Uncertainty of Climatic and Socioeconomic Changes. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , <b>2020</b> , 6, 04020032	1.7	4
12	Risk-based life-cycle optimization of deteriorating steel bridges: Investigation on the use of novel corrosion resistant steel. <i>Advances in Structural Engineering</i> , <b>2021</b> , 24, 1668-1686	1.9	4
11	Bridging the gap between sustainability and resilience of civil infrastructure using lifetime resilience <b>2018</b> , 419-442		4
10	Investigation of Effects of Time Preference and Risk Perception on Life-Cycle Management of Civil Infrastructure. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , <b>2020</b> , 6, 04020001	1.7	3
9	Efficient adaptive importance sampling for time-dependent reliability analysis of structures <b>2015</b> ,		3
8	Risk-based inspection planning of deteriorating structures. <i>Structure and Infrastructure Engineering</i> , 1-20	2.9	3
7	Determining Target Reliability Index of Structures Based on Cost Optimization and Acceptance Criteria for Fatality Risk. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , <b>2021</b> , 7, 04021013	1.7	3
6	Ship service life extension considering ship condition and remaining design life. <i>Marine Structures</i> , <b>2021</b> , 78, 102940	3.8	3
5	Reliability-Based Analysis and Life-Cycle Management of Load Tests <b>2019</b> , 265-296		2
4	Renewal-theory-based Life-cycle Risk Assessment of Bridge Deck Unseating under Hurricanes <b>2018</b> , 1996-2003	1	1
3	Life-cycle optimization of FRP-strengthening interventions for RC bridge superstructures <b>2016</b> , 90-90		1
2	Multi-stakeholder framework for assessing the life-cycle social cost of construction projects. <i>Structure and Infrastructure Engineering</i> , 1-16	2.9	1
1	Comparing the life-cycle cost of optimal bridge designs using a lifetime reliability-based approach <b>2016</b> , 209-209		0