

David Y Yang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7640684/david-y-yang-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Risk-based life-cycle optimization of deteriorating steel bridges: Investigation on the use of novel corrosion resistant steel. <i>Advances in Structural Engineering</i> , 2021 , 24, 1668-1686	1.9	4
32	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> , 2021 , 7, 04021013	1.7	3
31	Ship service life extension considering ship condition and remaining design life. <i>Marine Structures</i> , 2021 , 78, 102940	3.8	3
30	Bridge Load Testing: State-of-the-Practice. <i>Journal of Bridge Engineering</i> , 2021 , 26, 03120002	2.7	10
29	Error analysis for approximate structural life-cycle reliability and risk using machine learning methods. <i>Structural Safety</i> , 2021 , 89, 102033	4.9	5
28	Optimum maintenance of deteriorated steel bridges using corrosion resistant steel based on system reliability and life-cycle cost. <i>Engineering Structures</i> , 2021 , 243, 112633	4.7	7
27	Probabilistic cost-benefit analysis for service life extension of ships. <i>Ocean Engineering</i> , 2020 , 201, 107094	3.9	5
26	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> , 2020 , 6, 04020032	1.7	4
25	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> , 2020 , 6, 04020001	1.7	3
24	Network-Level Risk-Based Framework for Optimal Bridge Adaptation Management Considering Scour and Climate Change. <i>Journal of Infrastructure Systems</i> , 2020 , 26, 04019037	2.9	19
23	Life-cycle management of deteriorating bridge networks with network-level risk bounds and system reliability analysis. <i>Structural Safety</i> , 2020 , 83, 101911	4.9	16
22	Inclusion of environmental impacts in life-cycle cost analysis of bridge structures. <i>Sustainable and Resilient Infrastructure</i> , 2020 , 5, 252-267	3.3	7
21	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> , 2020 , 16, 531-546	2.9	9
20	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> , 2019 , 24, 04019099	2.7	20
19	Time-variant reliability analysis of steel plates in marine environments considering pit nucleation and propagation. <i>Probabilistic Engineering Mechanics</i> , 2019 , 57, 32-42	2.6	15
18	Probabilistic life-cycle optimization of durability-enhancing maintenance actions: Application to FRP strengthening planning. <i>Engineering Structures</i> , 2019 , 188, 340-349	4.7	28
17	Probabilistic Life-Cycle Management Framework for Ship Structures Subjected to Coupled Corrosion Fatigue Deterioration Processes. <i>Journal of Structural Engineering</i> , 2019 , 145, 04019116	3	9

16	Reliability-Based Analysis and Life-Cycle Management of Load Tests 2019 , 265-296		2
15	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> , 2019 , 183, 197-212	6.3	29
14	Societal risk assessment of transportation networks under uncertainties due to climate change and population growth. <i>Structural Safety</i> , 2019 , 78, 33-47	4.9	18
13	Probabilistic optimization framework for inspection/repair planning of fatigue-critical details using dynamic Bayesian networks. <i>Computers and Structures</i> , 2018 , 198, 40-50	4.5	29
12	Risk-Informed Bridge Ranking at Project and Network Levels. <i>Journal of Infrastructure Systems</i> , 2018 , 24, 04018018	2.9	21
11	Sustainability-Informed Bridge Ranking under Scour Based on Transportation Network Performance and Multiattribute Utility. <i>Journal of Bridge Engineering</i> , 2018 , 23, 04018082	2.7	27
10	Renewal-theory-based Life-cycle Risk Assessment of Bridge Deck Unseating under Hurricanes 2018 , 1996-2003		1
9	Evidence-based framework for real-time life-cycle management of fatigue-critical details of structures. <i>Structure and Infrastructure Engineering</i> , 2018 , 14, 509-522	2.9	17
8	Bridging the gap between sustainability and resilience of civil infrastructure using lifetime resilience 2018 , 419-442		4
7	Cross-entropy-based adaptive importance sampling for time-dependent reliability analysis of deteriorating structures. <i>Structural Safety</i> , 2017 , 66, 38-50	4.9	23
6	Lifetime reliability-based optimization of post-tensioned box-girder bridges. <i>Engineering Structures</i> , 2017 , 145, 381-391	4.7	44
5	Life-cycle optimization of FRP-strengthening interventions for RC bridge superstructures 2016 , 90-90		1
4	Comparing the life-cycle cost of optimal bridge designs using a lifetime reliability-based approach 2016 , 209-209		0
3	Efficient adaptive importance sampling for time-dependent reliability analysis of structures 2015 ,		3
2	Risk-based inspection planning of deteriorating structures. <i>Structure and Infrastructure Engineering</i> , 1-20	2.9	3
1	Multi-stakeholder framework for assessing the life-cycle social cost of construction projects. <i>Structure and Infrastructure Engineering</i> , 1-16	2.9	1