

# Xian-Xun Yuan

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

717  
citations

516681

16  
h-index

526264

27  
g-index

38  
all docs

38  
docs citations

38  
times ranked

625  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel robustness index for progressive collapse analysis of structures considering the full risk spectrum of damage evolution. <i>Structure and Infrastructure Engineering</i> , 2022, 18, 376-394.	3.7	9
2	Robustness-oriented optimal design for reinforced concrete frames considering the large uncertainty of progressive collapse threats. <i>Structural Safety</i> , 2022, 94, 102139.	5.3	14
3	Stochastic deterioration modelling of sidewalk performance using compound poisson processes. <i>Sustainable and Resilient Infrastructure</i> , 2022, 7, 861-877.	2.8	0
4	Stochastic modelling of maintenance flexibility in Value for Money assessment of PPP road projects. <i>Construction Management and Economics</i> , 2021, 39, 173-191.	3.0	4
5	Robustness Assessment of Reinforced Concrete Frames under Progressive Collapse Hazards: Novel Risk-Based Framework. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	17
6	Estimation of the value of an inspection and maintenance program: A Bayesian gamma process model. <i>Reliability Engineering and System Safety</i> , 2021, 216, 107912.	8.9	21
7	Toward a Big Data-Based Approach: A Review on Degradation Models for Prognosis of Critical Infrastructure. <i>Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems</i> , 2021, 4, .	0.9	14
8	Review and categorization of existing studies on the estimation of probabilistic failure metrics for Reactor Coolant Pressure Boundary piping and steam generator tubes in Nuclear Power Plants. <i>Progress in Nuclear Energy</i> , 2020, 118, 103105.	2.9	5
9	Comparison of cost and schedule performance of large public projects under P3 and traditional delivery models: a Canadian study. <i>Construction Management and Economics</i> , 2020, 38, 739-755.	3.0	9
10	Development of performance measures for pedestrian sidewalk asset management. <i>Infrastructure Asset Management</i> , 2020, 7, 190-200.	1.6	4
11	An advanced local calibration method for mechanisticâ€”empirical pavement design. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 1276-1290.	9.8	3
12	Integrative modeling of performance deterioration and maintenance effectiveness for infrastructure assets with missing condition data. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019, 34, 677-695.	9.8	18
13	Discussion on Chen, Zhuo and Liu, Xiaoyue Cathy (2019), “Roadway asset inspection sampling using highâ€”dimensional clustering and localityâ€”sensitivity hashing,” <i>Computerâ€”Aided Civil and Infrastructure Engineering</i> , 34:2, 116â€”129. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019, 34, 539-541.	9.8	0
14	Engineering innovations in Canadaâ€™s publicâ€”private partnerships. <i>Infrastructure Asset Management</i> , 2019, 6, 178-184.	1.6	3
15	A non-iterative progressive collapse design method for RC structures based on virtual thermal pushdown analysis. <i>Engineering Structures</i> , 2019, 189, 484-496.	5.3	18
16	A two-time-scale point process model of water main breaks for infrastructure asset management. <i>Water Research</i> , 2019, 150, 296-309.	11.3	19
17	Irregularity index for quick identification of worst column removal scenarios of RC frame structures. <i>Engineering Structures</i> , 2019, 178, 191-205.	5.3	15
18	A low-cost video-based pavement distress screening system for low-volume roads. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2018, 22, 376-389.	4.2	20

#	ARTICLE	IF	CITATIONS
19	Residual Value Risks of Highway Pavements in Public-Private Partnerships. Journal of Infrastructure Systems, 2018, 24, .	1.8	6
20	Local Calibration of the MEPDG Distress and Performance Models for Ontario's Flexible Roads: Overview, Impacts, and Reflection. Transportation Research Record, 2018, 2672, 207-216.	1.9	14
21	Principles and guidelines of deterioration modelling for water and waste water assets. Infrastructure Asset Management, 2017, 4, 19-35.	1.6	17
22	Reliability Analysis of Soil Nail Walls against External Failures in Layered Ground. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, 04016077.	3.0	19
23	Development of regression equations for local calibration of rutting and IRI as predicted by the MEPDG models for flexible pavements using Ontario's long-term PMS data. International Journal of Pavement Engineering, 2016, 17, 166-175.	4.4	16
24	Probabilistic spill occurrence simulation for chemical spills management. Journal of Hazardous Materials, 2013, 262, 517-526.	12.4	3
25	Numerical Modeling of Dynamic Behavior of Annular Tuned Liquid Dampers for Applications in Wind Towers. Computer-Aided Civil and Infrastructure Engineering, 2013, 28, 38-51.	9.8	43
26	Fuzzy-Valued Intensity Measures for Near-Fault Pulse-Like Ground Motions. Computer-Aided Civil and Infrastructure Engineering, 2013, 28, 780-795.	9.8	20
27	Bayesian method for the correlated competitive bidding model. Construction Management and Economics, 2012, 30, 477-491.	3.0	8
28	A correlated bidding model for markup size decisions. Construction Management and Economics, 2011, 29, 1101-1119.	3.0	19
29	Advances and Research Needs in Risk-Informed In-Service Inspection Methodology. , 2010, , .		0
30	A Stochastic Model for Piping Failure Frequency Analysis Using OPDE Data. Journal of Engineering for Gas Turbines and Power, 2009, 131, .	1.1	4
31	Discussion of "Model Selection in Applied Science and Engineering: A Decision-Theoretic Approach" by R. V. Field Jr. and M. Grigoriu. Journal of Engineering Mechanics - ASCE, 2009, 135, 358-359.	2.9	1
32	A nonlinear mixed-effects model for degradation data obtained from in-service inspections. Reliability Engineering and System Safety, 2009, 94, 509-519.	8.9	85
33	A Bayesian approach to modeling and predicting pitting flaws in steam generator tubes. Reliability Engineering and System Safety, 2009, 94, 1838-1847.	8.9	31
34	The influence of temporal uncertainty of deterioration on life-cycle management of structures. Structure and Infrastructure Engineering, 2009, 5, 145-156.	3.7	140
35	A probabilistic model of wall thinning in CANDU feeders due to flow-accelerated corrosion. Nuclear Engineering and Design, 2008, 238, 16-24.	1.7	44
36	A Point Process Model for Piping Failure Frequency Analysis Using OPDE Data. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
37	Analysis of approximations for multinormal integration in system reliability computation. Structural Safety, 2006, 28, 361-377.	5.3	54