

Paolo Gardoni

List of Publications by Year in descending order

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195
papers

6,758
citations

57631

44
h-index

79541

73
g-index

200
all docs

200
docs citations

200
times ranked

3088
citing authors

#	ARTICLE	IF	CITATIONS
1	Probabilistic Capacity Models and Fragility Estimates for Reinforced Concrete Columns based on Experimental Observations. <i>Journal of Engineering Mechanics - ASCE</i> , 2002, 128, 1024-1038.	1.6	523
2	Base isolation system with shape memory alloy device for elevated highway bridges. <i>Engineering Structures</i> , 2000, 22, 222-229.	2.6	306
3	PROBABILISTIC SEISMIC DEMAND MODELS AND FRAGILITY ESTIMATES FOR RC BRIDGES. <i>Journal of Earthquake Engineering</i> , 2003, 7, 79-106.	1.4	205
4	Seismic fragility estimates for reinforced concrete bridges subject to corrosion. <i>Structural Safety</i> , 2009, 31, 275-283.	2.8	205
5	Probabilistic capacity models and seismic fragility estimates for RC columns subject to corrosion. <i>Reliability Engineering and System Safety</i> , 2008, 93, 383-393.	5.1	199
6	Modeling the resilience of critical infrastructure: the role of network dependencies. <i>Sustainable and Resilient Infrastructure</i> , 2016, 1, 153-168.	1.7	168
7	Resilience analysis: a mathematical formulation to model resilience of engineering systems. <i>Sustainable and Resilient Infrastructure</i> , 2018, 3, 49-67.	1.7	161
8	Matrix-based system reliability method and applications to bridge networks. <i>Reliability Engineering and System Safety</i> , 2008, 93, 1584-1593.	5.1	160
9	Probabilistic framework to evaluate the resilience of engineering systems using Bayesian and dynamic Bayesian networks. <i>Reliability Engineering and System Safety</i> , 2020, 198, 106813.	5.1	135
10	Probabilistic Demand Models and Fragility Curves for Reinforced Concrete Frames. <i>Journal of Structural Engineering</i> , 2006, 132, 1563-1572.	1.7	130
11	The Centerville Virtual Community: a fully integrated decision model of interacting physical and social infrastructure systems. <i>Sustainable and Resilient Infrastructure</i> , 2016, 1, 95-107.	1.7	120
12	A multidisciplinary definition and evaluation of resilience: the role of social justice in defining resilience. <i>Sustainable and Resilient Infrastructure</i> , 2019, 4, 112-123.	1.7	113
13	Seismic Response and Fragility of Deteriorated Reinforced Concrete Bridges. <i>Journal of Structural Engineering</i> , 2010, 136, 1273-1281.	1.7	101
14	Regional resilience analysis: A multiscale approach to optimize the resilience of interdependent infrastructure. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 1315-1330.	6.3	90
15	Network reliability analysis with link and nodal weights and auxiliary nodes. <i>Structural Safety</i> , 2017, 65, 12-26.	2.8	82
16	Integration of physical infrastructure and social systems in communities' reliability and resilience analysis. <i>Reliability Engineering and System Safety</i> , 2019, 185, 476-492.	5.1	79
17	State-dependent stochastic models: A general stochastic framework for modeling deteriorating engineering systems considering multiple deterioration processes and their interactions. <i>Structural Safety</i> , 2018, 72, 99-110.	2.8	77
18	Closed-Form Fragility Estimates, Parameter Sensitivity, and Bayesian Updating for RC Columns. <i>Journal of Engineering Mechanics - ASCE</i> , 2007, 133, 833-843.	1.6	73

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19	A review and assessment of importance sampling methods for reliability analysis. <i>Structural Safety</i> , 2022, 97, 102216.	2.8	73
20	Probabilistic Seismic Demand Models and Fragility Estimates for Reinforced Concrete Highway Bridges with One Single-Column Bent. <i>Journal of Engineering Mechanics - ASCE</i> , 2010, 136, 1340-1353.	1.6	72
21	The Role of Society in Engineering Risk Analysis: A Capabilities-Based Approach. <i>Risk Analysis</i> , 2006, 26, 1073-1083.	1.5	71
22	Reliability-Based Optimal Design of Electrical Transmission Towers Using Multi-Objective Genetic Algorithms. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2007, 22, 282-292.	6.3	69
23	A stochastic framework to model deterioration in engineering systems. <i>Structural Safety</i> , 2015, 53, 36-43.	2.8	67
24	The Acceptability and the Tolerability of Societal Risks: A Capabilities-based Approach. <i>Science and Engineering Ethics</i> , 2008, 14, 77-92.	1.7	63
25	A probabilistic damage detection approach using vibration-based nondestructive testing. <i>Structural Safety</i> , 2012, 38, 11-21.	2.8	61
26	Title is missing!. <i>Journal of Earthquake Engineering</i> , 2003, 7, 79.	1.4	60
27	Probabilistic Assessment of Structural Damage due to Earthquakes for Buildings in Mid-America. <i>Journal of Structural Engineering</i> , 2009, 135, 1155-1163.	1.7	58
28	Probabilistic demand model and performance-based fragility estimates for RC column subject to vehicle collision. <i>Engineering Structures</i> , 2014, 74, 86-95.	2.6	57
29	Multi-hazard reliability assessment of offshore wind turbines. <i>Wind Energy</i> , 2015, 18, 1433-1450.	1.9	57
30	Statistical, Risk, and Reliability Analyses of Bridge Scour. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014, 140, .	1.5	56
31	A Probabilistic Framework for Bayesian Adaptive Forecasting of Project Progress. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2007, 22, 182-196.	6.3	55
32	Modeling Structural Degradation of RC Bridge Columns Subjected to Earthquakes and Their Fragility Estimates. <i>Journal of Structural Engineering</i> , 2012, 138, 42-51.	1.7	55
33	The role of transportation infrastructure on the impact of natural hazards on communities. <i>Reliability Engineering and System Safety</i> , 2022, 219, 108184.	5.1	55
34	Stiffness Degradation and Time to Cracking of Cover Concrete in Reinforced Concrete Structures Subject to Corrosion. <i>Journal of Engineering Mechanics - ASCE</i> , 2010, 136, 209-219.	1.6	54
35	Seismic fragility estimates for corroding reinforced concrete bridges. <i>Structure and Infrastructure Engineering</i> , 2012, 8, 55-69.	2.0	54
36	A Scale of Risk. <i>Risk Analysis</i> , 2014, 34, 1208-1227.	1.5	54

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37	Determining Public Policy and Resource Allocation Priorities for Mitigating Natural Hazards: A Capabilities-based Approach. <i>Science and Engineering Ethics</i> , 2007, 13, 489-504.	1.7	50
38	Gauging the societal impacts of natural disasters using a capability approach. <i>Disasters</i> , 2010, 34, 619-636.	1.1	50
39	Fragility Increment Functions for Deteriorating Reinforced Concrete Bridge Columns. <i>Journal of Engineering Mechanics - ASCE</i> , 2010, 136, 969-978.	1.6	50
40	Classification and Moral Evaluation of Uncertainties in Engineering Modeling. <i>Science and Engineering Ethics</i> , 2011, 17, 553-570.	1.7	50
41	Probabilistic demand models and fragility estimates for offshore wind turbine support structures. <i>Engineering Structures</i> , 2013, 52, 478-487.	2.6	50
42	Modeling Time-varying Reliability and Resilience of Deteriorating Infrastructure. <i>Reliability Engineering and System Safety</i> , 2022, 217, 108074.	5.1	48
43	Society-based design: promoting societal well-being by designing sustainable and resilient infrastructure. <i>Sustainable and Resilient Infrastructure</i> , 2020, 5, 4-19.	1.7	47
44	Decision analysis for seismic retrofit of structures. <i>Structural Safety</i> , 2009, 31, 188-196.	2.8	46
45	Reliability-Based Optimization Models for Scheduling Pavement Rehabilitation. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2010, 25, 227-237.	6.3	45
46	Probabilistic Fire Analysis: Material Models and Evaluation of Steel Structural Members. <i>Journal of Structural Engineering</i> , 2015, 141, .	1.7	44
47	Probabilistic capacity and seismic demand models and fragility estimates for reinforced concrete buildings based on three-dimensional analyses. <i>Engineering Structures</i> , 2016, 112, 200-214.	2.6	44
48	Probability of Exceedance Estimates for Scour Depth around Bridge Piers. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008, 134, 175-184.	1.5	43
49	Mathematical modeling of interdependent infrastructure: An object-oriented approach for generalized network-system analysis. <i>Reliability Engineering and System Safety</i> , 2022, 217, 108042.	5.1	43
50	Probabilistic capacity models and fragility estimates for RC columns retrofitted with FRP composites. <i>Engineering Structures</i> , 2014, 74, 13-22.	2.6	41
51	Seismic fragility increment functions for deteriorating reinforced concrete bridges. <i>Structure and Infrastructure Engineering</i> , 2011, 7, 869-879.	2.0	39
52	Uncertainty propagation in risk and resilience analysis of hierarchical systems. <i>Reliability Engineering and System Safety</i> , 2022, 219, 108208.	5.1	39
53	Story-specific demand models and seismic fragility estimates for multi-story buildings. <i>Structural Safety</i> , 2011, 33, 96-107.	2.8	38
54	Fire load: Survey data, recent standards, and probabilistic models for office buildings. <i>Engineering Structures</i> , 2014, 58, 152-165.	2.6	38

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55	Capabilities-Based Approach to Measuring the Societal Impacts of Natural and Man-Made Hazards in Risk Analysis. <i>Natural Hazards Review</i> , 2009, 10, 29-37.	0.8	37
56	Probabilistic Seismic Demand Models and Fragility Estimates for Reinforced Concrete Bridges with Two-Column Bents. <i>Journal of Engineering Mechanics - ASCE</i> , 2008, 134, 495-504.	1.6	36
57	Reliability Estimation for Networks of Reinforced Concrete Bridges. <i>Journal of Infrastructure Systems</i> , 2009, 15, 61-69.	1.0	34
58	A Critical Review on Structural Health Monitoring: Definitions, Methods, and Perspectives. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 2209-2235.	6.0	34
59	Seismic Fragility and Confidence Bounds for Gravity Load Designed Reinforced Concrete Frames of Varying Height. <i>Journal of Structural Engineering</i> , 2008, 134, 639-650.	1.7	33
60	Performance-Based Probabilistic Capacity Models and Fragility Estimates for RC Columns Subject to Vehicle Collision. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2015, 30, 555-569.	6.3	32
61	Probabilistic seismic demand model and fragility estimates for rocking symmetric blocks. <i>Engineering Structures</i> , 2016, 114, 25-34.	2.6	32
62	Integration of detailed household and housing unit characteristic data with critical infrastructure for post-hazard resilience modeling. <i>Sustainable and Resilient Infrastructure</i> , 2021, 6, 385-401.	1.7	32
63	Probabilistic Capacity Models for Corroding Posttensioning Strands Calibrated Using Laboratory Results. <i>Journal of Engineering Mechanics - ASCE</i> , 2009, 135, 906-916.	1.6	30
64	A density extrapolation approach to estimate failure probabilities. <i>Structural Safety</i> , 2021, 93, 102128.	2.8	30
65	Seismic Reliability Analysis of Deteriorating Representative U.S. West Coast Bridge Transportation Networks. <i>Journal of Structural Engineering</i> , 2016, 142, .	1.7	29
66	Stochastic procedure for the simulation of synthetic main shock+aftershock ground motion sequences. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 2275-2296.	2.5	29
67	Development of a Bridge Bumper to Protect Bridge Girders from Overheight Vehicle Impacts. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2008, 23, 415-426.	6.3	28
68	Empirical Bayes Approach for Developing Hierarchical Probabilistic Predictive Models and Its Application to the Seismic Reliability Analysis of FRP-Retrofitted RC Bridges. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2015, 1, .	1.1	28
69	Probabilistic performance-based evaluation of a tall steel moment resisting frame under post-earthquake fires. <i>Journal of Structural Fire Engineering</i> , 2016, 7, 193-216.	0.4	28
70	The Life Profitability Method (LPM): A financial approach to engineering decisions. <i>Structural Safety</i> , 2016, 63, 11-20.	2.8	28
71	Simulation-based approach for estimation of stochastic performances of deteriorating engineering systems. <i>Probabilistic Engineering Mechanics</i> , 2018, 52, 28-39.	1.3	28
72	Probabilistic models for the erosion rate in embankments and reliability analysis of earth dams. <i>Reliability Engineering and System Safety</i> , 2019, 181, 142-155.	5.1	28

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73	Predicting road blockage due to building damage following earthquakes. Reliability Engineering and System Safety, 2022, 219, 108220.	5.1	28
74	Stochastic life-cycle analysis: renewal-theory life-cycle analysis with state-dependent deterioration stochastic models. Structure and Infrastructure Engineering, 2019, 15, 1001-1014.	2.0	27
75	Application and modelling of Shape-Memory Alloys for structural vibration control: State-of-the-art review. Construction and Building Materials, 2022, 342, 127975.	3.2	27
76	Assessing capability instead of achieved functionings in risk analysis. Journal of Risk Research, 2010, 13, 137-147.	1.4	26
77	Probabilistic Capacity Models and Fragility Estimates for Reinforced Concrete Columns Incorporating NDT Data. Journal of Engineering Mechanics - ASCE, 2009, 135, 1384-1392.	1.6	25
78	Reliability-based topology optimization using a new method for sensitivity approximation - application to ground structures. Structural and Multidisciplinary Optimization, 2016, 54, 553-571.	1.7	24
79	Probabilistic models for blast parameters and fragility estimates of steel columns subject to blast loads. Engineering Structures, 2020, 222, 110944.	2.6	24
80	Risk-based catastrophe bond design for a spatially distributed portfolio. Structural Safety, 2020, 83, 101908.	2.8	24
81	Modeling Laterally Loaded Single Piles Accounting for Nonlinear Soil-Pile Interactions. Journal of Engineering (United States), 2013, 2013, 1-7.	0.5	23
82	A Reliability-Based Capability Approach. Risk Analysis, 2018, 38, 410-424.	1.5	23
83	Seismic demand and capacity models, and fragility estimates for underground structures considering spatially varying soil properties. Tunnelling and Underground Space Technology, 2022, 119, 104231.	3.0	23
84	Classification and mathematical modeling of infrastructure interdependencies. Sustainable and Resilient Infrastructure, 2021, 6, 4-25.	1.7	22
85	Evaluating the Source of the Risks Associated with Natural Events. Res Publica, 2011, 17, 125-140.	0.4	21
86	Multi-level, multi-variate, non-stationary, random field modeling and fragility analysis of engineering systems. Structural Safety, 2020, 87, 101999.	2.8	21
87	A simplified method for reliability- and integrity-based design of engineering systems and its application to offshore mooring systems. Marine Structures, 2014, 36, 88-104.	1.6	20
88	Big influence of small random imperfections in origami-based metamaterials. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, .	1.0	20
89	Seismic performance of precast segmental bridge columns repaired with CFRP wraps. Composite Structures, 2020, 243, 112218.	3.1	20
90	Probabilistic demand models and fragilities for reinforced concrete frame structures subject to mainshock-aftershock sequences. Engineering Structures, 2021, 245, 112904.	2.6	20

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91	Risk and Reliability Analysis. Springer Series in Reliability Engineering, 2017, , 3-24.	0.3	19
92	Improved latent space approach for modelling non-stationary spatial-temporal random fields. Spatial Statistics, 2018, 23, 160-181.	0.9	19
93	Quantifying the value of information from inspecting and monitoring engineering systems subject to gradual and shock deterioration. Structural Health Monitoring, 2022, 21, 72-89.	4.3	19
94	Evaluation of Different Bearing Fault Classifiers in Utilizing CNN Feature Extraction Ability. Sensors, 2022, 22, 3314.	2.1	19
95	Probabilistic Models for the Tensile Strength of Corroding Strands in Posttensioned Segmental Concrete Bridges. Journal of Materials in Civil Engineering, 2010, 22, 967-977.	1.3	18
96	Probabilistic model for steel-concrete bond behavior in bridge columns affected by alkali silica reactions. Engineering Structures, 2014, 71, 1-11.	2.6	18
97	Societal Risk and Resilience Analysis: Dynamic Bayesian Network Formulation of a Capability Approach. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2019, 5, .	1.1	18
98	Physics-based probabilistic models: Integrating differential equations and observational data. Structural Safety, 2020, 87, 101981.	2.8	18
99	Life-cycle probabilistic seismic risk assessment of high-rise buildings considering carbonation induced deterioration. Engineering Structures, 2021, 231, 111752.	2.6	18
100	Probabilistic Models for Erosion Parameters and Reliability Analysis of Earth Dams and Levees. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2016, 2, 04016006.	1.1	17
101	Multivariate Fragility Models for Earthquake Engineering. Earthquake Spectra, 2016, 32, 441-461.	1.6	17
102	Conditional formulation for the calibration of multi-level random fields with incomplete data. Reliability Engineering and System Safety, 2020, 204, 107121.	5.1	17
103	Segmental multi-point linearization for parameter sensitivity approximation in reliability analysis. Structural Safety, 2016, 62, 101-115.	2.8	16
104	Risk-based CAT bond pricing considering parameter uncertainties. Sustainable and Resilient Infrastructure, 2021, 6, 315-329.	1.7	16
105	Reliability-Based Approach to Investigating Long-Term Clogging in Green Stormwater Infrastructure. Journal of Sustainable Water in the Built Environment, 2019, 5, .	0.9	16
106	Damage Detection for Conveyor Belt Surface Based on Conditional Cycle Generative Adversarial Network. Sensors, 2022, 22, 3485.	2.1	16
107	Bayesian Updating of Seismic Demand Models and Fragility Estimates for Reinforced Concrete Bridges with Two-Column Bents. Journal of Earthquake Engineering, 2009, 13, 716-735.	1.4	15
108	Progressive reliability method and its application to offshore mooring systems. Engineering Structures, 2013, 56, 2131-2138.	2.6	15

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109	Life-Cycle Analysis of Engineering Systems: Modeling Deterioration, Instantaneous Reliability, and Resilience. Springer Series in Reliability Engineering, 2017, , 465-494.	0.3	15
110	A probabilistic framework to justify allowable admixed chloride limits in concrete. Construction and Building Materials, 2017, 139, 490-500.	3.2	15
111	A ground-up approach to estimate the likelihood of business interruption. International Journal of Disaster Risk Reduction, 2019, 41, 101314.	1.8	15
112	Evaluation of peak side resistance for rock socketed shafts in weak sedimentary rock from an extensive database of published field load tests: a limit state approach. Canadian Geotechnical Journal, 2019, 56, 1816-1831.	1.4	15
113	Probabilistic seismic demand models for circular tunnels subjected to transversal seismic load. Tunnelling and Underground Space Technology, 2022, 125, 104527.	3.0	15
114	Time-Variant Flexural Reliability of Posttensioned, Segmental Concrete Bridges Exposed to Corrosive Environments. Journal of Structural Engineering, 2014, 140, .	1.7	14
115	A Bayesian definition of "most probable" parameters. Geotechnical Research, 2018, 5, 130-142.	0.8	14
116	Using opportunities in big data analytics to more accurately predict societal consequences of natural disasters. Civil Engineering and Environmental Systems, 2019, 36, 100-114.	0.4	14
117	Probabilistic formulation for storm surge predictions. Structure and Infrastructure Engineering, 2020, 16, 547-566.	2.0	14
118	Time-Variant Strength Capacity Model for GFRP Bars Embedded in Concrete. Journal of Engineering Mechanics - ASCE, 2013, 139, 1435-1445.	1.6	13
119	Worldwide Predictions of Earthquake Casualty Rates with Seismic Intensity Measure and Socioeconomic Data: A Fragility-Based Formulation. Natural Hazards Review, 2020, 21, .	0.8	13
120	A generalized Bayesian approach for prediction of strength and elastic properties of rock. Engineering Geology, 2021, 289, 106187.	2.9	13
121	Which consequences matter in risk analysis and disaster assessment?. International Journal of Disaster Risk Reduction, 2022, 71, 102740.	1.8	13
122	Second-order Logarithmic formulation for hazard curves and closed-form approximation to annual failure probability. Structural Safety, 2013, 45, 18-23.	2.8	12
123	The Responsibilities of Engineers. Science and Engineering Ethics, 2014, 20, 519-538.	1.7	12
124	Integrity Index and Integrity-based Optimal Design of structural systems. Engineering Structures, 2014, 60, 206-213.	2.6	12
125	Performance of RC Columns Affected by ASR. II: Experiments and Assessment. Journal of Bridge Engineering, 2015, 20, .	1.4	12
126	Performance of RC Columns Affected by ASR. I: Accelerated Exposure and Damage. Journal of Bridge Engineering, 2015, 20, 04014069.	1.4	12

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127	Reliability-based design approach for high-rise buildings subject to earthquakes and strong winds. <i>Engineering Structures</i> , 2021, 244, 112771.	2.6	12
128	The Capability Approach in Risk Analysis. , 2012, , 979-997.		11
129	Probabilistic Models to Assess the Seismic Safety of Rigid Block-Like Elements and the Effectiveness of Two Safety Devices. <i>Journal of Structural Engineering</i> , 2019, 145, .	1.7	11
130	Predicting Fatality Rates Due to Earthquakes Accounting for Community Vulnerability. <i>Earthquake Spectra</i> , 2019, 35, 513-536.	1.6	11
131	Empirical Predictive Modeling Approach to Quantifying Social Vulnerability to Natural Hazards. <i>Annals of the American Association of Geographers</i> , 2021, 111, 1559-1583.	1.5	11
132	Optimal outrigger locations and damping parameters for single-outrigger systems considering earthquake and wind excitations. <i>Engineering Structures</i> , 2021, 245, 112868.	2.6	11
133	Adaptive Reliability Analysis of Reinforced Concrete Bridges Subject to Seismic Loading Using Nondestructive Testing. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2015, 1, .	1.1	10
134	Mechanical Behavior of Submarine Pipelines under Active Strike-Slip Fault Movement. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2018, 9, .	0.9	10
135	Probabilistic Analysis of Building Fire Severity Based on Fire Load Density Models. <i>Fire Technology</i> , 2019, 55, 1349-1375.	1.5	10
136	Adaptive prediction of wall movement during excavation using Bayesian inference. <i>Computers and Geotechnics</i> , 2021, 137, 104249.	2.3	10
137	Physics-based probabilistic demand model and reliability analysis for reinforced concrete beams under blast loads. <i>Engineering Structures</i> , 2021, 248, 112932.	2.6	10
138	<title>Experimental and analytical study on a shape memory alloy damper</title>. , 1998, , .		9
139	Modeling Pavement Fragility. <i>Journal of Transportation Engineering</i> , 2010, 136, 592-596.	0.9	9
140	Service reliability of offshore wind turbines. <i>International Journal of Sustainable Energy</i> , 2015, 34, 468-484.	1.3	9
141	Bayesian estimation of the normal and shear stiffness for rock sockets in weak sedimentary rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 124, 104129.	2.6	9
142	Risk Analysis for Hurricanes Accounting for the Effects of Climate Change. , 2019, , 39-72.		9
143	Stochastic Modeling of Deterioration and Time-Variant Performance of Reinforced Concrete Structures under Joint Effects of Earthquakes, Corrosion, and ASR. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	9
144	Design, Risk and Capabilities. <i>Philosophy of Engineering and Technology</i> , 2012, , 173-188.	0.1	9

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145	Probabilistic models of concrete compressive strength and elastic modulus with rubber aggregates. <i>Construction and Building Materials</i> , 2022, 322, 126145.	3.2	9
146	Bayesian Statistical Framework to Construct Probabilistic Models for the Elastic Modulus of Concrete. <i>Journal of Materials in Civil Engineering</i> , 2007, 19, 898-905.	1.3	8
147	Time-Variant Reliability Analysis and Flexural Design of GFRP-Reinforced Bridge Decks. <i>Journal of Composites for Construction</i> , 2012, 16, 359-370.	1.7	8
148	Probabilistic Demand Models and Fragility Estimates for Bridges Elevated with Steel Pedestals. <i>Journal of Structural Engineering</i> , 2013, 139, 1515-1528.	1.7	8
149	Time-Dependent Probability of Exceeding a Target Level of Recovery. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2019, 5, .	1.1	8
150	Dynamic and Seismic Protection of Rigid-Block-Like Elements and Structures on Deformable Ground with Mass-Damper Dynamic Absorbers. <i>Journal of Engineering Mechanics - ASCE</i> , 2020, 146, .	1.6	8
151	Probabilistic Seismic Demand Models and Life-Cycle Fragility Estimates for High-Rise Buildings. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	8
152	Probabilistic aerostability capacity models and fragility estimates for cable-stayed bridge decks based on wind tunnel test data. <i>Engineering Structures</i> , 2016, 126, 106-120.	2.6	7
153	Understanding Engineersâ€™ Responsibilities: A Prerequisite to Designing Engineering Education. <i>Science and Engineering Ethics</i> , 2019, 25, 1817-1820.	1.7	7
154	Experimental investigation and low-cycle fatigue behavior of I-shaped steel bracing members with gusset plate connections. <i>Thin-Walled Structures</i> , 2021, 162, 107593.	2.7	7
155	Case Study: Scenario-Based Seismic Loss Estimation for Concrete Buildings in Mid-America. <i>Earthquake Spectra</i> , 2014, 30, 1585-1599.	1.6	6
156	Seismic vulnerability assessment of tilt-up concrete structures. <i>Structure and Infrastructure Engineering</i> , 2015, 11, 1131-1146.	2.0	6
157	A load-transfer function for the side resistance of drilled shafts in soft rock. <i>Soils and Foundations</i> , 2019, 59, 1241-1259.	1.3	6
158	Physics-based repair rate curves for segmented pipelines subject to seismic excitations. <i>Sustainable and Resilient Infrastructure</i> , 2023, 8, 121-141.	1.7	6
159	Physics-based Demand Model and Fragility Functions of Industrial Tanks under blast loading. <i>Journal of Loss Prevention in the Process Industries</i> , 2022, , 104798.	1.7	6
160	Reliability assessment of excavation systems considering both stability and serviceability performance. <i>Georisk</i> , 2007, 1, 123-141.	2.6	5
161	Probabilistic seismic demand models and fragility estimates for reinforced concrete bridges with base isolation. <i>Earthquake and Structures</i> , 2013, 4, 527-555.	1.0	5
162	Response of Water Systems under Extreme Events: A Comprehensive Approach to Modeling Water System Resilience. , 2016, , .		5

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163	Resilience assessment of dynamic engineering systems. MATEC Web of Conferences, 2019, 281, 01008.	0.1	5
164	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, .	1.1	5
165	Innovative Surface-Borehole Transient Electromagnetic Method for Sensing the Coal Seam Roof Grouting Effect. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-9.	2.7	5
166	Kriging metamodels for the dynamic response of high-rise buildings with outrigger systems and fragility estimates for seismic and wind loads. , 2022, 1, 110-122.		5
167	Maneuver-based deep learning parameter identification of vehicle suspensions subjected to performance degradation. Vehicle System Dynamics, 2023, 61, 1260-1276.	2.2	5
168	Probabilistic Capacity Models and Fragility Estimates for Steel Pedestals Used to Elevate Bridges. Journal of Structural Engineering, 2011, 137, 1583-1592.	1.7	4
169	Effects of overlay designs on reliability of flexible pavements. Structure and Infrastructure Engineering, 2012, 8, 185-198.	2.0	4
170	Closed-form seismic fragility estimates, sensitivity analysis and importance measures for reinforced concrete columns in two-column bents. Structure and Infrastructure Engineering, 2012, 8, 669-685.	2.0	4
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