

# Paolo Gardoni

## List of Publications by Citations

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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.

191  
papers

4,545  
citations

37  
h-index

60  
g-index

200  
ext. papers

5,540  
ext. citations

3.7  
avg, IF

6.4  
L-index

#	Paper	IF	Citations
191	Probabilistic Capacity Models and Fragility Estimates for Reinforced Concrete Columns based on Experimental Observations. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2002</b> , 128, 1024-1038	2.4	385
190	Base isolation system with shape memory alloy device for elevated highway bridges. <i>Engineering Structures</i> , <b>2000</b> , 22, 222-229	4.7	246
189	PROBABILISTIC SEISMIC DEMAND MODELS AND FRAGILITY ESTIMATES FOR RC BRIDGES. <i>Journal of Earthquake Engineering</i> , <b>2003</b> , 7, 79-106	1.8	159
188	Seismic fragility estimates for reinforced concrete bridges subject to corrosion. <i>Structural Safety</i> , <b>2009</b> , 31, 275-283	4.9	158
187	Probabilistic capacity models and seismic fragility estimates for RC columns subject to corrosion. <i>Reliability Engineering and System Safety</i> , <b>2008</b> , 93, 383-393	6.3	158
186	Matrix-based system reliability method and applications to bridge networks. <i>Reliability Engineering and System Safety</i> , <b>2008</b> , 93, 1584-1593	6.3	128
185	Modeling the resilience of critical infrastructure: the role of network dependencies. <i>Sustainable and Resilient Infrastructure</i> , <b>2016</b> , 1, 153-168	3.3	115
184	Probabilistic Demand Models and Fragility Curves for Reinforced Concrete Frames. <i>Journal of Structural Engineering</i> , <b>2006</b> , 132, 1563-1572	3	106
183	Resilience analysis: a mathematical formulation to model resilience of engineering systems. <i>Sustainable and Resilient Infrastructure</i> , <b>2018</b> , 3, 49-67	3.3	99
182	The Centerville Virtual Community: a fully integrated decision model of interacting physical and social infrastructure systems. <i>Sustainable and Resilient Infrastructure</i> , <b>2016</b> , 1, 95-107	3.3	87
181	Seismic Response and Fragility of Deteriorated Reinforced Concrete Bridges. <i>Journal of Structural Engineering</i> , <b>2010</b> , 136, 1273-1281	3	83
180	A multidisciplinary definition and evaluation of resilience: the role of social justice in defining resilience. <i>Sustainable and Resilient Infrastructure</i> , <b>2019</b> , 4, 112-123	3.3	68
179	Probabilistic framework to evaluate the resilience of engineering systems using Bayesian and dynamic Bayesian networks. <i>Reliability Engineering and System Safety</i> , <b>2020</b> , 198, 106813	6.3	60
178	Probabilistic Seismic Demand Models and Fragility Estimates for Reinforced Concrete Highway Bridges with One Single-Column Bent. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2010</b> , 136, 1340-1353	2.4	60
177	Closed-Form Fragility Estimates, Parameter Sensitivity, and Bayesian Updating for RC Columns. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2007</b> , 133, 833-843	2.4	60
176	Reliability-Based Optimal Design of Electrical Transmission Towers Using Multi-Objective Genetic Algorithms. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2007</b> , 22, 282-292	8.4	57
175	Network reliability analysis with link and nodal weights and auxiliary nodes. <i>Structural Safety</i> , <b>2017</b> , 65, 12-26	4.9	54

174	The role of society in engineering risk analysis: a capabilities-based approach. <i>Risk Analysis</i> , <b>2006</b> , 26, 1073-83	3.9	54
173	A probabilistic damage detection approach using vibration-based nondestructive testing. <i>Structural Safety</i> , <b>2012</b> , 38, 11-21	4.9	53
172	A stochastic framework to model deterioration in engineering systems. <i>Structural Safety</i> , <b>2015</b> , 53, 36-43	4.9	51
171	Stiffness Degradation and Time to Cracking of Cover Concrete in Reinforced Concrete Structures Subject to Corrosion. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2010</b> , 136, 209-219	2.4	49
170	State-dependent stochastic models: A general stochastic framework for modeling deteriorating engineering systems considering multiple deterioration processes and their interactions. <i>Structural Safety</i> , <b>2018</b> , 72, 99-110	4.9	48
169	Probabilistic Assessment of Structural Damage due to Earthquakes for Buildings in Mid-America. <i>Journal of Structural Engineering</i> , <b>2009</b> , 135, 1155-1163	3	48
168	A Probabilistic Framework for Bayesian Adaptive Forecasting of Project Progress. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2007</b> , 22, 182-196	8.4	48
167	Multi-hazard reliability assessment of offshore wind turbines. <i>Wind Energy</i> , <b>2015</b> , 18, 1433-1450	3.4	47
166	Modeling Structural Degradation of RC Bridge Columns Subjected to Earthquakes and Their Fragility Estimates. <i>Journal of Structural Engineering</i> , <b>2012</b> , 138, 42-51	3	47
165	Integration of physical infrastructure and social systems in communities: Reliability and resilience analysis. <i>Reliability Engineering and System Safety</i> , <b>2019</b> , 185, 476-492	6.3	47
164	The acceptability and the tolerability of societal risks: a capabilities-based approach. <i>Science and Engineering Ethics</i> , <b>2008</b> , 14, 77-92	3.1	46
163	A scale of risk. <i>Risk Analysis</i> , <b>2014</b> , 34, 1208-27	3.9	45
162	Probabilistic demand model and performance-based fragility estimates for RC column subject to vehicle collision. <i>Engineering Structures</i> , <b>2014</b> , 74, 86-95	4.7	44
161	. <i>Journal of Earthquake Engineering</i> , <b>2003</b> , 7, 79	1.8	44
160	Seismic fragility estimates for corroding reinforced concrete bridges. <i>Structure and Infrastructure Engineering</i> , <b>2012</b> , 8, 55-69	2.9	43
159	Statistical, Risk, and Reliability Analyses of Bridge Scour. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2014</b> , 140, 04013011	3.4	42
158	Fragility Increment Functions for Deteriorating Reinforced Concrete Bridge Columns. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2010</b> , 136, 969-978	2.4	42
157	Decision analysis for seismic retrofit of structures. <i>Structural Safety</i> , <b>2009</b> , 31, 188-196	4.9	41

156	Gauging the societal impacts of natural disasters using a capability approach. <i>Disasters</i> , <b>2010</b> , 34, 619-362.8	40
155	Probabilistic capacity and seismic demand models and fragility estimates for reinforced concrete buildings based on three-dimensional analyses. <i>Engineering Structures</i> , <b>2016</b> , 112, 200-214	4.7 37
154	Classification and moral evaluation of uncertainties in engineering modeling. <i>Science and Engineering Ethics</i> , <b>2011</b> , 17, 553-70	3.1 37
153	Reliability-Based Optimization Models for Scheduling Pavement Rehabilitation. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2010</b> , 25, 227-237	8.4 37
152	Determining public policy and resource allocation priorities for mitigating natural hazards: a capabilities-based approach. <i>Science and Engineering Ethics</i> , <b>2007</b> , 13, 489-504	3.1 37
151	Probabilistic demand models and fragility estimates for offshore wind turbine support structures. <i>Engineering Structures</i> , <b>2013</b> , 52, 478-487	4.7 36
150	Seismic fragility increment functions for deteriorating reinforced concrete bridges. <i>Structure and Infrastructure Engineering</i> , <b>2011</b> , 7, 869-879	2.9 35
149	Capabilities-Based Approach to Measuring the Societal Impacts of Natural and Man-Made Hazards in Risk Analysis. <i>Natural Hazards Review</i> , <b>2009</b> , 10, 29-37	3.5 34
148	Probabilistic Fire Analysis: Material Models and Evaluation of Steel Structural Members. <i>Journal of Structural Engineering</i> , <b>2015</b> , 141, 04015050	3 32
147	Probabilistic Seismic Demand Models and Fragility Estimates for Reinforced Concrete Bridges with Two-Column Bents. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2008</b> , 134, 495-504	2.4 32
146	Regional resilience analysis: A multiscale approach to optimize the resilience of interdependent infrastructure. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2020</b> , 35, 1315-1330	8.4 32
145	Probability of Exceedance Estimates for Scour Depth around Bridge Piers. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2008</b> , 134, 175-184	3.4 31
144	Reliability Estimation for Networks of Reinforced Concrete Bridges. <i>Journal of Infrastructure Systems</i> , <b>2009</b> , 15, 61-69	2.9 30
143	Story-specific demand models and seismic fragility estimates for multi-story buildings. <i>Structural Safety</i> , <b>2011</b> , 33, 96-107	4.9 30
142	Fire load: Survey data, recent standards, and probabilistic models for office buildings. <i>Engineering Structures</i> , <b>2014</b> , 58, 152-165	4.7 28
141	Seismic Fragility and Confidence Bounds for Gravity Load Designed Reinforced Concrete Frames of Varying Height. <i>Journal of Structural Engineering</i> , <b>2008</b> , 134, 639-650	3 28
140	Probabilistic capacity models and fragility estimates for RC columns retrofitted with FRP composites. <i>Engineering Structures</i> , <b>2014</b> , 74, 13-22	4.7 27
139	Probabilistic seismic demand model and fragility estimates for rocking symmetric blocks. <i>Engineering Structures</i> , <b>2016</b> , 114, 25-34	4.7 26

138	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> , <b>2015</b> , 1, 04015002	1.7	25
137	Probabilistic Capacity Models for Corroding Posttensioning Strands Calibrated Using Laboratory Results. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2009</b> , 135, 906-916	2.4	25
136	Society-based design: promoting societal well-being by designing sustainable and resilient infrastructure. <i>Sustainable and Resilient Infrastructure</i> , <b>2020</b> , 5, 4-19	3.3	24
135	Performance-Based Probabilistic Capacity Models and Fragility Estimates for RC Columns Subject to Vehicle Collision. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2015</b> , 30, 555-569	8.4	22
134	Development of a Bridge Bumper to Protect Bridge Girders from Overheight Vehicle Impacts. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2008</b> , 23, 415-426	8.4	22
133	Probabilistic Capacity Models and Fragility Estimates for Reinforced Concrete Columns Incorporating NDT Data. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2009</b> , 135, 1384-1392	2.4	21
132	Simulation-based approach for estimation of stochastic performances of deteriorating engineering systems. <i>Probabilistic Engineering Mechanics</i> , <b>2018</b> , 52, 28-39	2.6	20
131	The Life Profitability Method (LPM): A financial approach to engineering decisions. <i>Structural Safety</i> , <b>2016</b> , 63, 11-20	4.9	20
130	Stochastic procedure for the simulation of synthetic main shock-aftershock ground motion sequences. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2018</b> , 47, 2275-2296	4	19
129	Assessing capability instead of achieved functionings in risk analysis. <i>Journal of Risk Research</i> , <b>2010</b> , 13, 137-147	4.2	19
128	Seismic Reliability Analysis of Deteriorating Representative U.S. West Coast Bridge Transportation Networks. <i>Journal of Structural Engineering</i> , <b>2016</b> , 142,	3	19
127	Probabilistic performance-based evaluation of a tall steel moment resisting frame under post-earthquake fires. <i>Journal of Structural Fire Engineering</i> , <b>2016</b> , 7, 193-216	0.9	19
126	Evaluating the Source of the Risks Associated with Natural Events. <i>Res Publica</i> , <b>2011</b> , 17, 125-140	0.2	18
125	Risk and Reliability Analysis. <i>Springer Series in Reliability Engineering</i> , <b>2017</b> , 3-24	0.2	16
124	A Reliability-Based Capability Approach. <i>Risk Analysis</i> , <b>2018</b> , 38, 410-424	3.9	16
123	Modeling Laterally Loaded Single Piles Accounting for Nonlinear Soil-Pile Interactions. <i>Journal of Engineering (United States)</i> , <b>2013</b> , 2013, 1-7	1.5	15
122	Probabilistic Models for the Tensile Strength of Corroding Strands in Posttensioned Segmental Concrete Bridges. <i>Journal of Materials in Civil Engineering</i> , <b>2010</b> , 22, 967-977	3	15
121	Probabilistic models for the erosion rate in embankments and reliability analysis of earth dams. <i>Reliability Engineering and System Safety</i> , <b>2019</b> , 181, 142-155	6.3	15

120	Life-Cycle Analysis of Engineering Systems: Modeling Deterioration, Instantaneous Reliability, and Resilience. <i>Springer Series in Reliability Engineering</i> , <b>2017</b> , 465-494	0.2	14
119	Stochastic life-cycle analysis: renewal-theory life-cycle analysis with state-dependent deterioration stochastic models. <i>Structure and Infrastructure Engineering</i> , <b>2019</b> , 15, 1001-1014	2.9	14
118	Improved latent space approach for modelling non-stationary spatial-temporal random fields. <i>Spatial Statistics</i> , <b>2018</b> , 23, 160-181	2.2	14
117	Probabilistic Models for Erosion Parameters and Reliability Analysis of Earth Dams and Levees. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , <b>2016</b> , 2, 04016006	1.7	14
116	Probabilistic models for blast parameters and fragility estimates of steel columns subject to blast loads. <i>Engineering Structures</i> , <b>2020</b> , 222, 110944	4.7	14
115	Reliability-based topology optimization using a new method for sensitivity approximation - application to ground structures. <i>Structural and Multidisciplinary Optimization</i> , <b>2016</b> , 54, 553-571	3.6	14
114	Integration of detailed household and housing unit characteristic data with critical infrastructure for post-hazard resilience modeling. <i>Sustainable and Resilient Infrastructure</i> , <b>2019</b> , 1-17	3.3	14
113	Societal Risk and Resilience Analysis: Dynamic Bayesian Network Formulation of a Capability Approach. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , <b>2019</b> , 5, 04018046	1.7	14
112	A simplified method for reliability- and integrity-based design of engineering systems and its application to offshore mooring systems. <i>Marine Structures</i> , <b>2014</b> , 36, 88-104	3.8	13
111	Probabilistic model for steel-concrete bond behavior in bridge columns affected by alkali silica reactions. <i>Engineering Structures</i> , <b>2014</b> , 71, 1-11	4.7	13
110	Time-Variant Strength Capacity Model for GFRP Bars Embedded in Concrete. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2013</b> , 139, 1435-1445	2.4	13
109	A probabilistic framework to justify allowable admixed chloride limits in concrete. <i>Construction and Building Materials</i> , <b>2017</b> , 139, 490-500	6.7	12
108	Bayesian Updating of Seismic Demand Models and Fragility Estimates for Reinforced Concrete Bridges with Two-Column Bents. <i>Journal of Earthquake Engineering</i> , <b>2009</b> , 13, 716-735	1.8	12
107	The role of transportation infrastructure on the impact of natural hazards on communities. <i>Reliability Engineering and System Safety</i> , <b>2021</b> , 219, 108184	6.3	12
106	Performance of RC Columns Affected by ASR. I: Accelerated Exposure and Damage. <i>Journal of Bridge Engineering</i> , <b>2015</b> , 20, 04014069	2.7	11
105	Time-Variant Flexural Reliability of Posttensioned, Segmental Concrete Bridges Exposed to Corrosive Environments. <i>Journal of Structural Engineering</i> , <b>2014</b> , 140,	3	11
104	The Capability Approach in Risk Analysis <b>2012</b> , 979-997		11
103	Multivariate Fragility Models for Earthquake Engineering. <i>Earthquake Spectra</i> , <b>2016</b> , 32, 441-461	3.4	10

102	Progressive reliability method and its application to offshore mooring systems. <i>Engineering Structures</i> , <b>2013</b> , 56, 2131-2138	4.7	10
101	Performance of RC Columns Affected by ASR. II: Experiments and Assessment. <i>Journal of Bridge Engineering</i> , <b>2015</b> , 20, 04014070	2.7	10
100	Conditional formulation for the calibration of multi-level random fields with incomplete data. <i>Reliability Engineering and System Safety</i> , <b>2020</b> , 204, 107121	6.3	10
99	Multi-level, multi-variate, non-stationary, random field modeling and fragility analysis of engineering systems. <i>Structural Safety</i> , <b>2020</b> , 87, 101999	4.9	10
98	Big influence of small random imperfections in origami-based metamaterials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2020</b> , 476, 20200236	2.4	10
97	Life-cycle probabilistic seismic risk assessment of high-rise buildings considering carbonation induced deterioration. <i>Engineering Structures</i> , <b>2021</b> , 231, 111752	4.7	10
96	Mathematical modeling of interdependent infrastructure: An object-oriented approach for generalized network-system analysis. <i>Reliability Engineering and System Safety</i> , <b>2022</b> , 217, 108042	6.3	10
95	Physics-based probabilistic models: Integrating differential equations and observational data. <i>Structural Safety</i> , <b>2020</b> , 87, 101981	4.9	9
94	A ground-up approach to estimate the likelihood of business interruption. <i>International Journal of Disaster Risk Reduction</i> , <b>2019</b> , 41, 101314	4.5	9
93	Integrity Index and Integrity-based Optimal Design of structural systems. <i>Engineering Structures</i> , <b>2014</b> , 60, 206-213	4.7	9
92	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> , <b>2015</b> , 1, 04015014	1.7	9
91	Risk-based catastrophe bond design for a spatially distributed portfolio. <i>Structural Safety</i> , <b>2020</b> , 83, 101908	4.9	9
90	Reliability-Based Approach to Investigating Long-Term Clogging in Green Stormwater Infrastructure. <i>Journal of Sustainable Water in the Built Environment</i> , <b>2019</b> , 5, 04018015	2.4	9
89	Modeling Time-varying Reliability and Resilience of Deteriorating Infrastructure. <i>Reliability Engineering and System Safety</i> , <b>2021</b> , 108074	6.3	9
88	Quantifying the value of information from inspecting and monitoring engineering systems subject to gradual and shock deterioration. <i>Structural Health Monitoring</i> , 147592172098186	4.4	9
87	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. <i>Canadian Geotechnical Journal</i> , <b>2019</b> , 56, 1816-1831	3.2	8
86	Seismic performance of precast segmental bridge columns repaired with CFRP wraps. <i>Composite Structures</i> , <b>2020</b> , 243, 112218	5.3	8
85	The responsibilities of engineers. <i>Science and Engineering Ethics</i> , <b>2014</b> , 20, 519-38	3.1	8

84	Second-order Logarithmic formulation for hazard curves and closed-form approximation to annual failure probability. <i>Structural Safety</i> , <b>2013</b> , 45, 18-23	4.9	8
83	Time-Variant Reliability Analysis and Flexural Design of GFRP-Reinforced Bridge Decks. <i>Journal of Composites for Construction</i> , <b>2012</b> , 16, 359-370	3.3	8
82	Using opportunities in big data analytics to more accurately predict societal consequences of natural disasters. <i>Civil Engineering and Environmental Systems</i> , <b>2019</b> , 36, 100-114	2.1	7
81	Risk Analysis for Hurricanes Accounting for the Effects of Climate Change <b>2019</b> , 39-72		7
80	Probabilistic aerostability capacity models and fragility estimates for cable-stayed bridge decks based on wind tunnel test data. <i>Engineering Structures</i> , <b>2016</b> , 126, 106-120	4.7	7
79	Segmental multi-point linearization for parameter sensitivity approximation in reliability analysis. <i>Structural Safety</i> , <b>2016</b> , 62, 101-115	4.9	7
78	A Bayesian definition of most probable parameters. <i>Geotechnical Research</i> , <b>2018</b> , 5, 130-142	1.2	7
77	Probabilistic Demand Models and Fragility Estimates for Bridges Elevated with Steel Pedestals. <i>Journal of Structural Engineering</i> , <b>2013</b> , 139, 1515-1528	3	7
76	Modeling Pavement Fragility. <i>Journal of Transportation Engineering</i> , <b>2010</b> , 136, 592-596		7
75	Experimental and analytical study on a shape memory alloy damper <b>1998</b> ,		7
74	A Critical Review on Structural Health Monitoring: Definitions, Methods, and Perspectives. <i>Archives of Computational Methods in Engineering</i> , 1	7.8	7
73	Classification and mathematical modeling of infrastructure interdependencies. <i>Sustainable and Resilient Infrastructure</i> , <b>2021</b> , 6, 4-25	3.3	7
72	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> , <b>2019</b> , 145, 04019133	3	6
71	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> , <b>2019</b> , 5, 04019013	1.7	6
70	Predicting Fatality Rates Due to Earthquakes Accounting for Community Vulnerability. <i>Earthquake Spectra</i> , <b>2019</b> , 35, 513-536	3.4	6
69	Service reliability of offshore wind turbines. <i>International Journal of Sustainable Energy</i> , <b>2015</b> , 34, 468-484	4.7	6
68	Probabilistic formulation for storm surge predictions. <i>Structure and Infrastructure Engineering</i> , <b>2020</b> , 16, 547-566	2.9	6
67	Worldwide Predictions of Earthquake Casualty Rates with Seismic Intensity Measure and Socioeconomic Data: A Fragility-Based Formulation. <i>Natural Hazards Review</i> , <b>2020</b> , 21, 04020001	3.5	6



66	Seismic vulnerability assessment of tilt-up concrete structures. <i>Structure and Infrastructure Engineering</i> , <b>2015</b> , 11, 1131-1146	2.9	6
65	Bayesian Statistical Framework to Construct Probabilistic Models for the Elastic Modulus of Concrete. <i>Journal of Materials in Civil Engineering</i> , <b>2007</b> , 19, 898-905	3	6
64	Predicting Road Blockage Due to Building Damage Following Earthquakes. <i>Reliability Engineering and System Safety</i> , <b>2021</b> , 108220	6.3	6
63	Design, Risk and Capabilities. <i>Philosophy of Engineering and Technology</i> , <b>2012</b> , 173-188	0.1	6
62	A load-transfer function for the side resistance of drilled shafts in soft rock. <i>Soils and Foundations</i> , <b>2019</b> , 59, 1241-1259	2.9	6
61	Probabilistic Analysis of Building Fire Severity Based on Fire Load Density Models. <i>Fire Technology</i> , <b>2019</b> , 55, 1349-1375	3	6
60	Mechanical Behavior of Submarine Pipelines under Active Strike-Slip Fault Movement. <i>Journal of Pipeline Systems Engineering and Practice</i> , <b>2018</b> , 9, 04018006	1.5	5
59	Case Study: Scenario-Based Seismic Loss Estimation for Concrete Buildings in Mid-America. <i>Earthquake Spectra</i> , <b>2014</b> , 30, 1585-1599	3.4	5
58	Experimental investigation and low-cycle fatigue behavior of I-shaped steel bracing members with gusset plate connections. <i>Thin-Walled Structures</i> , <b>2021</b> , 162, 107593	4.7	5
57	A generalized Bayesian approach for prediction of strength and elastic properties of rock. <i>Engineering Geology</i> , <b>2021</b> , 289, 106187	6	5
56	Resilience assessment of dynamic engineering systems. <i>MATEC Web of Conferences</i> , <b>2019</b> , 281, 01008	0.3	4
55	Probabilistic Model and LRFD Resistance Factors for the Tip Resistance of Drilled Shafts in Soft Sedimentary Rock Based on Axial Load Tests <b>2018</b> ,		4
54	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> , <b>2019</b> , 124, 104129	6	4
53	Closed-form seismic fragility estimates, sensitivity analysis and importance measures for reinforced concrete columns in two-column bents. <i>Structure and Infrastructure Engineering</i> , <b>2012</b> , 8, 669-685	2.9	4
52	Probabilistic Capacity Models and Fragility Estimates for Steel Pedestals Used to Elevate Bridges. <i>Journal of Structural Engineering</i> , <b>2011</b> , 137, 1583-1592	3	4
51	Reliability assessment of excavation systems considering both stability and serviceability performance. <i>Georisk</i> , <b>2007</b> , 1, 123-141	1.9	4
50	Response of Water Systems under Extreme Events: A Comprehensive Approach to Modeling Water System Resilience <b>2016</b> ,		4
49	Understanding Engineers' Responsibilities: A Prerequisite to Designing Engineering Education : Commentary on "Educating Engineers for the Public Good Through International Internships: Evidence from a Case Study at Universitat Politècnica de València". <i>Science and Engineering Ethics</i> , <b>2019</b> , 25, 1817-1820	3.1	4

48	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> , <b>2021</b> , 147, 04020314	3	4
47	Quantitatively Determining the High-Pass Filter Cutoff Period of Ground Motions. <i>Bulletin of the Seismological Society of America</i> , <b>2018</b> , 108, 857-865	2.3	4
46	A density extrapolation approach to estimate failure probabilities. <i>Structural Safety</i> , <b>2021</b> , 93, 102128	4.9	4
45	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> , <b>2020</b> , 146, 04020046	2.4	3
44	Effects of overlay designs on reliability of flexible pavements. <i>Structure and Infrastructure Engineering</i> , <b>2012</b> , 8, 185-198	2.9	3
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