Paolo Gardoni

List of Publications by Year in Descending Order

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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.

60 4,545 191 37 h-index g-index citations papers 6.4 5,540 3.7 200 L-index avg, IF ext. citations ext. papers

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 191 | Risks and Compromises: Principled Compromises in Managing Societal Risks of Extreme Events. <i>Springer Tracts in Civil Engineering</i> , 2022 , 31-44 | 0.4 | 1 |
| 190 | Which consequences matter in risk analyis and disaster assessment?. <i>International Journal of Disaster Risk Reduction</i> , 2022 , 71, 102740 | 4.5 | 1 |
| 189 | Probabilistic models of concrete compressive strength and elastic modulus with rubber aggregates. <i>Construction and Building Materials</i> , 2022 , 322, 126145 | 6.7 | Ο |
| 188 | Innovative Surface-Borehole Transient Electromagnetic method for Sensing the Coal Seam Roof Grouting Effect. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1 | 8.1 | 0 |
| 187 | Physics-Based Probabilistic Models for the Reliability Analysis of Bridges. <i>Lecture Notes in Civil Engineering</i> , 2022 , 285-294 | 0.3 | |
| 186 | Uncertainty propagation in risk and resilience analysis of hierarchical systems. <i>Reliability Engineering and System Safety</i> , 2022 , 219, 108208 | 6.3 | 2 |
| 185 | Seismic demand and capacity models, and fragility estimates for underground structures considering spatially varying soil properties. <i>Tunnelling and Underground Space Technology</i> , 2022 , 119, 104231 | 5.7 | 2 |
| 184 | Mathematical modeling of interdependent infrastructure: An object-oriented approach for generalized network-system analysis. <i>Reliability Engineering and System Safety</i> , 2022 , 217, 108042 | 6.3 | 10 |
| 183 | A review and assessment of importance sampling methods for reliability analysis. <i>Structural Safety</i> , 2022 , 97, 102216 | 4.9 | 2 |
| 182 | A probabilistic, empirical model for permeability of mudstone. <i>Probabilistic Engineering Mechanics</i> , 2022 , 69, 103262 | 2.6 | О |
| 181 | A Renewal Theory Formulation for the Quantification of the Benefits of Structural Health Monitoring. <i>Lecture Notes in Civil Engineering</i> , 2022 , 277-284 | 0.3 | |
| 180 | Monitoring Direct Current Resistivity during Coal Mining Process for Underground Water Detection: An Experimental Case Study. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1 | 8.1 | 1 |
| 179 | Probabilistic seismic demand models for circular tunnels subjected to transversal seismic load. <i>Tunnelling and Underground Space Technology</i> , 2022 , 125, 104527 | 5.7 | 3 |
| 178 | A New Deep Model for Detecting Multiple Moving Targets in Real Traffic Scenarios: Machine Vision-Based Vehicles. <i>Sensors</i> , 2022 , 22, 3742 | 3.8 | |
| 177 | Physics-based Demand Model and Fragility Functions of Industrial Tanks under blast loading. Journal of Loss Prevention in the Process Industries, 2022, 104798 | 3.5 | 1 |
| 176 | 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 | | O |
| 175 | Adaptive Contrastive Learning with Label Consistency for Source Data Free Unsupervised Domain Adaptation. <i>Sensors</i> , 2022 , 22, 4238 | 3.8 | |

(2021-2021)

| 174 | The role of transportation infrastructure on the impact of natural hazards on communities. <i>Reliability Engineering and System Safety</i> , 2021 , 219, 108184 | 6.3 | 12 | |
|-----|---|-----|----|--|
| 173 | Predicting Road Blockage Due to Building Damage Following Earthquakes. <i>Reliability Engineering</i> and System Safety, 2021 , 108220 | 6.3 | 6 | |
| 172 | Physics-based probabilistic demand model and reliability analysis for reinforced concrete beams under blast loads. <i>Engineering Structures</i> , 2021 , 248, 112932 | 4.7 | 2 | |
| 171 | Life-cycle probabilistic seismic risk assessment of high-rise buildings considering carbonation induced deterioration. <i>Engineering Structures</i> , 2021 , 231, 111752 | 4.7 | 10 | |
| 170 | On the Use and Interpretation of In Situ Load Tests in Weak Rock Masses. <i>Rock Mechanics and Rock Engineering</i> , 2021 , 54, 3663-3700 | 5.7 | | |
| 169 | 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 | 4.7 | 5 | |
| 168 | Probabilistic Models and Fragility Estimates for Unreinforced Masonry Walls Subject to In-Plane Horizontal Forces. <i>Journal of Structural Engineering</i> , 2021 , 147, | 3 | 2 | |
| 167 | Classification and mathematical modeling of infrastructure interdependencies. <i>Sustainable and Resilient Infrastructure</i> , 2021 , 6, 4-25 | 3.3 | 7 | |
| 166 | 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, 04020314 | 3 | 4 | |
| 165 | Wind shielding in refining and petrochemical facilities. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021 , 214, 104676 | 3.7 | | |
| 164 | A generalized Bayesian approach for prediction of strength and elastic properties of rock. <i>Engineering Geology</i> , 2021 , 289, 106187 | 6 | 5 | |
| 163 | Modeling Time-varying Reliability and Resilience of Deteriorating Infrastructure. <i>Reliability Engineering and System Safety</i> , 2021 , 108074 | 6.3 | 9 | |
| 162 | Adaptive prediction of wall movement during excavation using Bayesian inference. <i>Computers and Geotechnics</i> , 2021 , 137, 104249 | 4.4 | 1 | |
| 161 | Time-Dependent Reliability Analysis Based on Point-Evolution Kernel Density Estimation: Comprehensive Approach with Continuous and Shock Deterioration and Maintenance. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2021 , 7, 04021032 | 1.7 | 2 | |
| 160 | Reliability-based design approach for high-rise buildings subject to earthquakes and strong winds. <i>Engineering Structures</i> , 2021 , 244, 112771 | 4.7 | 2 | |
| 159 | Optimal outrigger locations and damping parameters for single-outrigger systems considering earthquake and wind excitations. <i>Engineering Structures</i> , 2021 , 245, 112868 | 4.7 | 2 | |
| 158 | Nonlinear random vibration analysis: A Bayesian nonparametric approach. <i>Probabilistic Engineering Mechanics</i> , 2021 , 66, 103163 | 2.6 | О | |
| 157 | Probabilistic demand models and fragilities for reinforced concrete frame structures subject to mainshock-aftershock sequences. <i>Engineering Structures</i> , 2021 , 245, 112904 | 4.7 | 2 | |

| 156 | A density extrapolation approach to estimate failure probabilities. Structural Safety, 2021 , 93, 102128 | 4.9 | 4 |
|-----|---|--------------------|----|
| 155 | Probabilistic Seismic Demand Models and Life-Cycle Fragility Estimates for High-Rise Buildings. Journal of Structural Engineering, 2021 , 147, | 3 | 2 |
| 154 | Physics-based probabilistic models: Integrating differential equations and observational data. <i>Structural Safety</i> , 2020 , 87, 101981 | 4.9 | 9 |
| 153 | Seismic performance of precast segmental bridge columns repaired with CFRP wraps. <i>Composite Structures</i> , 2020 , 243, 112218 | 5.3 | 8 |
| 152 | Probabilistic formulation for storm surge predictions. <i>Structure and Infrastructure Engineering</i> , 2020 , 16, 547-566 | 2.9 | 6 |
| 151 | Worldwide Predictions of Earthquake Casualty Rates with Seismic Intensity Measure and Socioeconomic Data: A Fragility-Based Formulation. <i>Natural Hazards Review</i> , 2020 , 21, 04020001 | 3.5 | 6 |
| 150 | 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 | 6.3 | 60 |
| 149 | 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, 040 | 2 00 46 | 3 |
| 148 | Risk-based catastrophe bond design for a spatially distributed portfolio. <i>Structural Safety</i> , 2020 , 83, 101 | 1940& | 9 |
| 147 | Probabilistic models for blast parameters and fragility estimates of steel columns subject to blast loads. <i>Engineering Structures</i> , 2020 , 222, 110944 | 4.7 | 14 |
| 146 | Conditional formulation for the calibration of multi-level random fields with incomplete data. <i>Reliability Engineering and System Safety</i> , 2020 , 204, 107121 | 6.3 | 10 |
| 145 | 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 | 8.4 | 32 |
| 144 | Multi-level, multi-variate, non-stationary, random field modeling and fragility analysis of engineering systems. <i>Structural Safety</i> , 2020 , 87, 101999 | 4.9 | 10 |
| 143 | Big influence of small random imperfections in origami-based metamaterials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200236 | 2.4 | 10 |
| 142 | Empirical Predictive Modeling Approach to Quantifying Social Vulnerability to Natural Hazards. <i>Annals of the American Association of Geographers</i> , 2020 , 1-25 | 2.6 | 3 |
| 141 | Society-based design: promoting societal well-being by designing sustainable and resilient infrastructure. Sustainable and Resilient Infrastructure, 2020 , 5, 4-19 | 3.3 | 24 |
| 140 | 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, 04019133 | 3 | 6 |
| 139 | Resilience assessment of dynamic engineering systems. <i>MATEC Web of Conferences</i> , 2019 , 281, 01008 | 0.3 | 4 |

(2019-2019)

| 138 | 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, 04019013 | 1.7 | 6 |
|-----|---|-----|----|
| 137 | 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> , 2019 , 56, 1816-1831 | 3.2 | 8 |
| 136 | Using opportunities in big data analytics to more accurately predict societal consequences of natural disasters. <i>Civil Engineering and Environmental Systems</i> , 2019 , 36, 100-114 | 2.1 | 7 |
| 135 | Predicting Fatality Rates Due to Earthquakes Accounting for Community Vulnerability. <i>Earthquake Spectra</i> , 2019 , 35, 513-536 | 3.4 | 6 |
| 134 | Stochastic Life-Cycle Sustainability Analysis: Its Mathematical Formulation and the Role of Resilience 2019 , 475-494 | | 2 |
| 133 | Stochastic life-cycle analysis: renewal-theory life-cycle analysis with state-dependent deterioration stochastic models. <i>Structure and Infrastructure Engineering</i> , 2019 , 15, 1001-1014 | 2.9 | 14 |
| 132 | Risk Analysis for Hurricanes Accounting for the Effects of Climate Change 2019 , 39-72 | | 7 |
| 131 | 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 | 3.3 | 68 |
| 130 | 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 | 6 | 4 |
| 129 | A ground-up approach to estimate the likelihood of business interruption. <i>International Journal of Disaster Risk Reduction</i> , 2019 , 41, 101314 | 4.5 | 9 |
| 128 | Predicting rain garden performance under back-to-back rainfall conditions using stochastic life-cycle analysis. <i>Sustainable and Resilient Infrastructure</i> , 2019 , 1-13 | 3.3 | O |
| 127 | A load-transfer function for the side resistance of drilled shafts in soft rock. <i>Soils and Foundations</i> , 2019 , 59, 1241-1259 | 2.9 | 6 |
| 126 | Risk-based CAT bond pricing considering parameter uncertainties. Sustainable and Resilient Infrastructure, 2019 , 1-15 | 3.3 | 3 |
| 125 | Integration of detailed household and housing unit characteristic data with critical infrastructure for post-hazard resilience modeling. <i>Sustainable and Resilient Infrastructure</i> , 2019 , 1-17 | 3.3 | 14 |
| 124 | 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> , 2019 , 5, 04018046 | 1.7 | 14 |
| 123 | Reliability-Based Approach to Investigating Long-Term Clogging in Green Stormwater Infrastructure. <i>Journal of Sustainable Water in the Built Environment</i> , 2019 , 5, 04018015 | 2.4 | 9 |
| 122 | Integration of physical infrastructure and social systems in communitiesIteliability and resilience analysis. <i>Reliability Engineering and System Safety</i> , 2019 , 185, 476-492 | 6.3 | 47 |
| 121 | Directional search algorithm for hierarchical model development and selection. <i>Reliability Engineering and System Safety</i> , 2019 , 182, 194-207 | 6.3 | 3 |

| 120 | 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 | 6.3 | 15 |
|-----|---|-----|----|
| 119 | 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 Politönica de Valöcia". Science and Engineering Ethics, | 3.1 | 4 |
| 118 | Probabilistic Analysis of Building Fire Severity Based on Fire Load Density Models. <i>Fire Technology</i> , 2019 , 55, 1349-1375 | 3 | 6 |
| 117 | Mechanical Behavior of Submarine Pipelines under Active Strike-Slip Fault Movement. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2018 , 9, 04018006 | 1.5 | 5 |
| 116 | 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 | 4.9 | 48 |
| 115 | Improved latent space approach for modelling non-stationary spatialEemporal random fields. <i>Spatial Statistics</i> , 2018 , 23, 160-181 | 2.2 | 14 |
| 114 | Simulation-based approach for estimation of stochastic performances of deteriorating engineering systems. <i>Probabilistic Engineering Mechanics</i> , 2018 , 52, 28-39 | 2.6 | 20 |
| 113 | A Reliability-Based Capability Approach. <i>Risk Analysis</i> , 2018 , 38, 410-424 | 3.9 | 16 |
| 112 | Resilience analysis: a mathematical formulation to model resilience of engineering systems. <i>Sustainable and Resilient Infrastructure</i> , 2018 , 3, 49-67 | 3.3 | 99 |
| 111 | Probabilistic Model and LRFD Resistance Factors for the Tip Resistance of Drilled Shafts in Soft Sedimentary Rock Based on Axial Load Tests 2018 , | | 4 |
| 110 | Stochastic procedure for the simulation of synthetic main shock-aftershock ground motion sequences. <i>Earthquake Engineering and Structural Dynamics</i> , 2018 , 47, 2275-2296 | 4 | 19 |
| 109 | A Bayesian definition of thost probable parameters. <i>Geotechnical Research</i> , 2018 , 5, 130-142 | 1.2 | 7 |
| 108 | Resilience and sustainability goals for communities and quantification metrics 2018, 50-69 | | 1 |
| 107 | Quantitatively Determining the High-Pass Filter Cutoff Period of Ground Motions. <i>Bulletin of the Seismological Society of America</i> , 2018 , 108, 857-865 | 2.3 | 4 |
| 106 | Life-Cycle Analysis of Engineering Systems: Modeling Deterioration, Instantaneous Reliability, and Resilience. <i>Springer Series in Reliability Engineering</i> , 2017 , 465-494 | 0.2 | 14 |
| 105 | Risk and Reliability Analysis. Springer Series in Reliability Engineering, 2017, 3-24 | 0.2 | 16 |
| 104 | A probabilistic framework to justify allowable admixed chloride limits in concrete. <i>Construction and Building Materials</i> , 2017 , 139, 490-500 | 6.7 | 12 |
| 103 | Network reliability analysis with link and nodal weights and auxiliary nodes. <i>Structural Safety</i> , 2017 , 65, 12-26 | 4.9 | 54 |

(2015-2017)

| 102 | Probability models to assess the seismic safety of rigid block-like structures and the effectiveness of two safety devices. <i>Procedia Engineering</i> , 2017 , 199, 1164-1169 | | 2 |
|-----|--|--------------|-----|
| 101 | 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 | 4.7 | 7 |
| 100 | The Life Profitability Method (LPM): A financial approach to engineering decisions. <i>Structural Safety</i> , 2016 , 63, 11-20 | 4.9 | 20 |
| 99 | Segmental multi-point linearization for parameter sensitivity approximation in reliability analysis. <i>Structural Safety</i> , 2016 , 62, 101-115 | 4.9 | 7 |
| 98 | 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, 040 | 14906 | 14 |
| 97 | Probabilistic Evaluation Framework for Fire and Fire Following Earthquake 2016 , 211-227 | | |
| 96 | Multivariate Fragility Models for Earthquake Engineering. <i>Earthquake Spectra</i> , 2016 , 32, 441-461 | 3.4 | 10 |
| 95 | 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 | 4.7 | 37 |
| 94 | Probabilistic seismic demand model and fragility estimates for rocking symmetric blocks. <i>Engineering Structures</i> , 2016 , 114, 25-34 | 4.7 | 26 |
| 93 | Seismic Reliability Analysis of Deteriorating Representative U.S. West Coast Bridge Transportation Networks. <i>Journal of Structural Engineering</i> , 2016 , 142, | 3 | 19 |
| 92 | Modeling the resilience of critical infrastructure: the role of network dependencies. <i>Sustainable and Resilient Infrastructure</i> , 2016 , 1, 153-168 | 3.3 | 115 |
| 91 | 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 | 3.3 | 87 |
| 90 | Response of Water Systems under Extreme Events: A Comprehensive Approach to Modeling Water System Resilience 2016 , | | 4 |
| 89 | Reliability-based topology optimization using a new method for sensitivity approximation - application to ground structures. <i>Structural and Multidisciplinary Optimization</i> , 2016 , 54, 553-571 | 3.6 | 14 |
| 88 | 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 | 0.9 | 19 |
| 87 | 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, 04015002 | 1.7 | 25 |
| 86 | A stochastic framework to model deterioration in engineering systems. Structural Safety, 2015, 53, 36-4 | 3 4.9 | 51 |
| 85 | 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 | 8.4 | 22 |

| 84 | Performance of RC Columns Affected by ASR. I: Accelerated Exposure and Damage. <i>Journal of Bridge Engineering</i> , 2015 , 20, 04014069 | 2.7 | 11 |
|----|--|---------------|----|
| 83 | Probabilistic Fire Analysis: Material Models and Evaluation of Steel Structural Members. <i>Journal of Structural Engineering</i> , 2015 , 141, 04015050 | 3 | 32 |
| 82 | Service reliability of offshore wind turbines. International Journal of Sustainable Energy, 2015, 34, 468- | 48 <u>4</u> 7 | 6 |
| 81 | Multi-hazard reliability assessment of offshore wind turbines. Wind Energy, 2015, 18, 1433-1450 | 3.4 | 47 |
| 80 | Seismic vulnerability assessment of tilt-up concrete structures. <i>Structure and Infrastructure Engineering</i> , 2015 , 11, 1131-1146 | 2.9 | 6 |
| 79 | 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, 04015014 | 1.7 | 9 |
| 78 | Performance of RC Columns Affected by ASR. II: Experiments and Assessment. <i>Journal of Bridge Engineering</i> , 2015 , 20, 04014070 | 2.7 | 10 |
| 77 | A simplified method for reliability- and integrity-based design of engineering systems and its application to offshore mooring systems. <i>Marine Structures</i> , 2014 , 36, 88-104 | 3.8 | 13 |
| 76 | Probabilistic model for steeldoncrete bond behavior in bridge columns affected by alkali silica reactions. <i>Engineering Structures</i> , 2014 , 71, 1-11 | 4.7 | 13 |
| 75 | Decision analysis for elevating bridge decks with steel pedestals. <i>Structure and Infrastructure Engineering</i> , 2014 , 10, 1059-1067 | 2.9 | O |
| 74 | The responsibilities of engineers. Science and Engineering Ethics, 2014, 20, 519-38 | 3.1 | 8 |
| 73 | Integrity Index and Integrity-based Optimal Design of structural systems. <i>Engineering Structures</i> , 2014 , 60, 206-213 | 4.7 | 9 |
| 72 | Probabilistic capacity models and fragility estimates for RC columns retrofitted with FRP composites. <i>Engineering Structures</i> , 2014 , 74, 13-22 | 4.7 | 27 |
| 71 | Probabilistic demand model and performance-based fragility estimates for RC column subject to vehicle collision. <i>Engineering Structures</i> , 2014 , 74, 86-95 | 4.7 | 44 |
| 70 | Case Study: Scenario-Based Seismic Loss Estimation for Concrete Buildings in Mid-America. <i>Earthquake Spectra</i> , 2014 , 30, 1585-1599 | 3.4 | 5 |
| 69 | Time-Variant Flexural Reliability of Posttensioned, Segmental Concrete Bridges Exposed to Corrosive Environments. <i>Journal of Structural Engineering</i> , 2014 , 140, | 3 | 11 |
| 68 | A scale of risk. <i>Risk Analysis</i> , 2014 , 34, 1208-27 | 3.9 | 45 |
| 67 | Panel - The ethics of nuclear energy in the post- Fukushima Era 2014 , | | 1 |

(2012-2014)

| 66 | Predicting Residual Tensile Strength of Seven-Wire Strands Using That of Single Wires Exposed to Chloride Environments. <i>Journal of Materials in Civil Engineering</i> , 2014 , 26, 04014044 | 3 | | |
|----|---|-----|----|--|
| 65 | Fire load: Survey data, recent standards, and probabilistic models for office buildings. <i>Engineering Structures</i> , 2014 , 58, 152-165 | 4.7 | 28 | |
| 64 | Statistical, Risk, and Reliability Analyses of Bridge Scour. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014 , 140, 04013011 | 3.4 | 42 | |
| 63 | Probabilistic demand models and fragility estimates for offshore wind turbine support structures. <i>Engineering Structures</i> , 2013 , 52, 478-487 | 4.7 | 36 | |
| 62 | Progressive reliability method and its application to offshore mooring systems. <i>Engineering Structures</i> , 2013 , 56, 2131-2138 | 4.7 | 10 | |
| 61 | Second-order Logarithmic formulation for hazard curves and closed-form approximation to annual failure probability. <i>Structural Safety</i> , 2013 , 45, 18-23 | 4.9 | 8 | |
| 60 | Probabilistic seismic demand models and fragility estimates for reinforced concrete bridges with base isolation. <i>Earthquake and Structures</i> , 2013 , 4, 527-555 | | 2 | |
| 59 | Time-Variant Strength Capacity Model for GFRP Bars Embedded in Concrete. <i>Journal of Engineering Mechanics - ASCE</i> , 2013 , 139, 1435-1445 | 2.4 | 13 | |
| 58 | Probabilistic Demand Models and Fragility Estimates for Bridges Elevated with Steel Pedestals. Journal of Structural Engineering, 2013 , 139, 1515-1528 | 3 | 7 | |
| 57 | Modeling Laterally Loaded Single Piles Accounting for Nonlinear Soil-Pile Interactions. <i>Journal of Engineering (United States)</i> , 2013 , 2013, 1-7 | 1.5 | 15 | |
| 56 | A probabilistic damage detection approach using vibration-based nondestructive testing. <i>Structural Safety</i> , 2012 , 38, 11-21 | 4.9 | 53 | |
| 55 | Closed-form seismic fragility estimates, sensitivity analysis and importance measures for reinforced concrete columns in two-column bents. <i>Structure and Infrastructure Engineering</i> , 2012 , 8, 669-685 | 2.9 | 4 | |
| 54 | Modeling Structural Degradation of RC Bridge Columns Subjected to Earthquakes and Their Fragility Estimates. <i>Journal of Structural Engineering</i> , 2012 , 138, 42-51 | 3 | 47 | |
| 53 | The Capability Approach in Risk Analysis 2012 , 979-997 | | 11 | |
| 52 | Seismic fragility estimates for corroding reinforced concrete bridges. <i>Structure and Infrastructure Engineering</i> , 2012 , 8, 55-69 | 2.9 | 43 | |
| 51 | Time-Variant Reliability Analysis and Flexural Design of GFRP-Reinforced Bridge Decks. <i>Journal of Composites for Construction</i> , 2012 , 16, 359-370 | 3.3 | 8 | |
| 50 | Effects of overlay designs on reliability of flexible pavements. <i>Structure and Infrastructure Engineering</i> , 2012 , 8, 185-198 | 2.9 | 3 | |
| 49 | Design, Risk and Capabilities. <i>Philosophy of Engineering and Technology</i> , 2012 , 173-188 | 0.1 | 6 | |
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| 48 | Evaluating the Source of the Risks Associated with Natural Events. <i>Res Publica</i> , 2011 , 17, 125-140 | 0.2 | 18 |
|----|--|--------------|----|
| 47 | Classification and moral evaluation of uncertainties in engineering modeling. <i>Science and Engineering Ethics</i> , 2011 , 17, 553-70 | 3.1 | 37 |
| 46 | Story-specific demand models and seismic fragility estimates for multi-story buildings. <i>Structural Safety</i> , 2011 , 33, 96-107 | 4.9 | 30 |
| 45 | Seismic fragility increment functions for deteriorating reinforced concrete bridges. <i>Structure and Infrastructure Engineering</i> , 2011 , 7, 869-879 | 2.9 | 35 |
| 44 | Probabilistic Capacity Models and Fragility Estimates for Steel Pedestals Used to Elevate Bridges. Journal of Structural Engineering, 2011 , 137, 1583-1592 | 3 | 4 |
| 43 | Reliability-Based Optimization Models for Scheduling Pavement Rehabilitation. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2010 , 25, 227-237 | 8.4 | 37 |
| 42 | Gauging the societal impacts of natural disasters using a capability approach. <i>Disasters</i> , 2010 , 34, 619-3 | 6 2.8 | 40 |
| 41 | Modeling Pavement Fragility. <i>Journal of Transportation Engineering</i> , 2010 , 136, 592-596 | | 7 |
| 40 | Assessing capability instead of achieved functionings in risk analysis. <i>Journal of Risk Research</i> , 2010 , 13, 137-147 | 4.2 | 19 |
| 39 | Probabilistic Models for the Tensile Strength of Corroding Strands in Posttensioned Segmental Concrete Bridges. <i>Journal of Materials in Civil Engineering</i> , 2010 , 22, 967-977 | 3 | 15 |
| 38 | Fragility Increment Functions for Deteriorating Reinforced Concrete Bridge Columns. <i>Journal of Engineering Mechanics - ASCE</i> , 2010 , 136, 969-978 | 2.4 | 42 |
| 37 | 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 | 2.4 | 60 |
| 36 | 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 | 2.4 | 49 |
| 35 | Seismic Response and Fragility of Deteriorated Reinforced Concrete Bridges. <i>Journal of Structural Engineering</i> , 2010 , 136, 1273-1281 | 3 | 83 |
| 34 | A Probabilistic Model for the Estimation of Shear Capacity of Bridge Piers Subjected to Dynamic Loading 2009 , | | 2 |
| 33 | Probabilistic Capacity Models for Corroding Posttensioning Strands Calibrated Using Laboratory Results. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 906-916 | 2.4 | 25 |
| 32 | Probabilistic Assessment of Structural Damage due to Earthquakes for Buildings in Mid-America. Journal of Structural Engineering, 2009 , 135, 1155-1163 | 3 | 48 |
| 31 | Reliability Estimation for Networks of Reinforced Concrete Bridges. <i>Journal of Infrastructure Systems</i> , 2009 , 15, 61-69 | 2.9 | 30 |

(2007-2009)

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