

Jianye Ching

List of Publications by Year in descending order

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173
papers

5,663
citations

66315

42
h-index

95218

68
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180
all docs

180
docs citations

180
times ranked

2302
citing authors

#	ARTICLE	IF	CITATIONS
1	Mobilisation-based characteristic value of shear strength for ultimate limit states. Georisk, 2022, 16, 413-434.	2.6	8
2	Challenges in data-driven site characterization. Georisk, 2022, 16, 114-126.	2.6	55
3	Quasi-site-specific multivariate probability distribution model for sparse, incomplete, and three-dimensional spatially varying soil data. Georisk, 2022, 16, 53-76.	2.6	14
4	What is a characteristic value for soils?. Georisk, 2022, 16, 199-224.	2.6	6
5	Benchmark examples for data-driven site characterisation. Georisk, 2022, 16, 599-621.	2.6	17
6	Data analytics in geotechnical and geological engineering. Georisk, 2022, 16, 1-1.	2.6	4
7	Homogenizing spatially variable Young modulus using pseudo incremental energy method. Structural Safety, 2022, 97, 102226.	2.8	7
8	Unpacking data-centric geotechnics. Underground Space (China), 2022, 7, 967-989.	3.4	32
9	Quasi-site-specific soil property prediction using a cluster-based hierarchical Bayesian model. Structural Safety, 2022, 99, 102253.	2.8	7
10	Bayesian Learning Methods for Geotechnical Data. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2021, 7, .	1.1	8
11	Simulation of three-dimensional random field conditioning on incomplete site data. Engineering Geology, 2021, 281, 105987.	2.9	16
12	Dealing with Nonlattice Data in Three-Dimensional Probabilistic Site Characterization. Journal of Engineering Mechanics - ASCE, 2021, 147, .	1.6	24
13	Constructing Quasi-Site-Specific Multivariate Probability Distribution Using Hierarchical Bayesian Model. Journal of Engineering Mechanics - ASCE, 2021, 147, .	1.6	31
14	On the Hole Effect in Soil Spatial Variability. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2021, 7, 04021039.	1.1	4
15	Erratum for "Scale of Fluctuation for Spatially Varying Soils: Estimation Methods and Values" by Brigid Cami, Sina Javankhoshdel, Kok-Kwang Phoon, and Jianye Ching. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2021, 7, .	1.1	3
16	Statistical determination of multivariate characteristic values for Eurocode 7. Structural Safety, 2020, 82, 101893.	2.8	8
17	Simplified risk assessment for a spatially variable undrained long slope. Computers and Geotechnics, 2020, 117, 103228.	2.3	7
18	Calibration of reliability-based safety factors for sand boiling in excavations. Canadian Geotechnical Journal, 2020, 57, 742-753.	1.4	0

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19	3D Probabilistic Site Characterization by Sparse Bayesian Learning. Journal of Engineering Mechanics - ASCE, 2020, 146, .	1.6	39
20	Role of municipal database in constructing site-specific multivariate probability distribution. Computers and Geotechnics, 2020, 124, 103623.	2.3	10
21	Scale of Fluctuation for Spatially Varying Soils: Estimation Methods and Values. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2020, 6, .	1.1	82
22	Constructing a Site-Specific Multivariate Probability Distribution Using Sparse, Incomplete, and Spatially Variable (MUSIC-X) Data. Journal of Engineering Mechanics - ASCE, 2020, 146, .	1.6	44
23	A novel reliability-based design method based on quantile-based first-order second-moment. Applied Mathematical Modelling, 2020, 88, 461-473.	2.2	23
24	Measuring Similarity between Site-Specific Data and Records from Other Sites. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2020, 6, .	1.1	19
25	Identification of sample path smoothness in soil spatial variability. Structural Safety, 2019, 81, 101870.	2.8	42
26	A novel simplified geotechnical reliability analysis method. Applied Mathematical Modelling, 2019, 74, 337-349.	2.2	18
27	Constructing Site-Specific Multivariate Probability Distribution Model Using Bayesian Machine Learning. Journal of Engineering Mechanics - ASCE, 2019, 145, .	1.6	89
28	Impact of Autocorrelation Function Model on the Probability of Failure. Journal of Engineering Mechanics - ASCE, 2019, 145, .	1.6	43
29	Discretization error in the random finite element method for spatially variable undrained shear strength. Computers and Geotechnics, 2019, 105, 183-194.	2.3	28
30	Multivariate probability distribution for some intact rock properties. Canadian Geotechnical Journal, 2019, 56, 1080-1097.	1.4	21
31	Managing Risk in Geotechnical Engineering “ From Data to Digitalization. , 2019, , .		32
32	Generic transformation models for some intact rock properties. Canadian Geotechnical Journal, 2018, 55, 1702-1741.	1.4	26
33	Effective Young’s modulus of a spatially variable soil mass under a footing. Structural Safety, 2018, 73, 99-113.	2.8	18
34	Estimating horizontal scale of fluctuation with limited CPT soundings. Geoscience Frontiers, 2018, 9, 1597-1608.	4.3	58
35	Characterizing Uncertain Site-Specific Trend Function by Sparse Bayesian Learning. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	78
36	Worst case scale of fluctuation in basal heave analysis involving spatially variable clays. Structural Safety, 2017, 68, 28-42.	2.8	38

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37	Probabilistic transformation models for preconsolidation stress based on clay index properties. Engineering Geology, 2017, 226, 33-43.	2.9	4
38	Can a Spatially Variable Field Be Converted into a Homogeneous Spatial Average over an Influence Zone?. , 2017, , .		0
39	On characterizing spatially variable soil Young's modulus using spatial average. Structural Safety, 2017, 66, 106-117.	2.8	20
40	Correlations among some parameters of coarse-grained soils " the multivariate probability distribution model. Canadian Geotechnical Journal, 2017, 54, 1203-1220.	1.4	22
41	Discussion of "Transitional Markov Chain Monte Carlo: Observations and Improvements" by Wolfgang Betz, Iason Papaioannou, and Daniel Straub. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	2
42	Effective Young's Modulus for a Footing on a Spatially Variable Soil Mass. , 2017, , .		2
43	Transformation models for effective friction angle and relative density calibrated based on generic database of coarse-grained soils. Canadian Geotechnical Journal, 2017, 54, 481-501.	1.4	36
44	Characterizing Unknown Trend Using Sparse Bayesian Learning. , 2017, , .		1
45	Identifiability of Geotechnical Site-Specific Trend Functions. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2017, 3, .	1.1	22
46	Effect of Element Size in Random Finite Element Analysis for Effective Young's Modulus. Mathematical Problems in Engineering, 2016, 2016, 1-10.	0.6	17
47	Undrained strength for a 3D spatially variable clay column subjected to compression or shear. Probabilistic Engineering Mechanics, 2016, 45, 127-139.	1.3	22
48	Robust estimation of correlation coefficients among soil parameters under the multivariate normal framework. Structural Safety, 2016, 63, 21-32.	2.8	19
49	Spatial correlation for transformation uncertainty and its applications. Georisk, 2016, 10, 294-311.	2.6	8
50	Chapter 3 Uncertainty representation of geotechnical design parameters. , 2016, , 49-88.		15
51	Chapter 4 Statistical characterization of multivariate geotechnical data. , 2016, , 89-126.		19
52	Chapter 5 Statistical characterization of model uncertainty. , 2016, , 127-158.		15
53	Chapter 6 Semi-probabilistic reliability-based design. , 2016, , 159-192.		2
54	Some observations on ISO2394:2015 Annex D (Reliability of Geotechnical Structures). Structural Safety, 2016, 62, 24-33.	2.8	63

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55	Transitional Markov Chain Monte Carlo: Observations and Improvements. Journal of Engineering Mechanics - ASCE, 2016, 142, .	1.6	91
56	Impact of Statistical Uncertainty on Geotechnical Reliability Estimation. Journal of Engineering Mechanics - ASCE, 2016, 142, .	1.6	42
57	On characterizing spatially variable soil shear strength using spatial average. Probabilistic Engineering Mechanics, 2016, 45, 31-43.	1.3	29
58	New Sampling Method and Procedures for Estimating Failure Probability. Journal of Engineering Mechanics - ASCE, 2016, 142, .	1.6	15
59	Application of the transitional Markov chain Monte Carlo algorithm to probabilistic site characterization. Engineering Geology, 2016, 203, 151-167.	2.9	73
60	Effective Young's modulus for a spatially variable soil mass subjected to a simple stress state. Georisk, 2016, 10, 11-26.	2.6	13
61	Statistical characterization of random field parameters using frequentist and Bayesian approaches. Canadian Geotechnical Journal, 2016, 53, 285-298.	1.4	80
62	Can the effect of shear strength spatial variability be summarized as the pure spatial average?. Japanese Geotechnical Society Special Publication, 2016, 2, 2429-2434.	0.2	0
63	Estimating peak flow-discharge during extreme rainfall events for the Gao-Ping River, Taiwan. International Journal of Safety and Security Engineering, 2016, 6, 663-673.	0.5	0
64	ESTIMATING PEAK FLOW-DISCHARGE DURING EXTREME RAINFALL EVENTS FOR THE GAO-PING RIVER, TAIWAN. WIT Transactions on State-of-the-art in Science and Engineering, 2016, , 209-219.	0.0	0
65	A New Procedure for Simulating Active Lateral Force in Spatially Variable Clay Modeled by Anisotropic Random Field. Journal of Mechanics, 2015, 31, 381-390.	0.7	1
66	Cone penetration test (CPT)-based stratigraphic profiling using the wavelet transform modulus maxima method. Canadian Geotechnical Journal, 2015, 52, 1993-2007.	1.4	58
67	Simplified Reliability-Based Design of Wall Displacements for Excavations in Soft Clay Considering Cross Walls. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	1.5	4
68	Role of redundancy in simplified geotechnical reliability-based design – A quantile value method perspective. Structural Safety, 2015, 55, 37-48.	2.8	14
69	Impact of spatial variability in undrained shear strength on active lateral force in clay. Structural Safety, 2015, 52, 121-131.	2.8	33
70	Reducing the Transformation Uncertainty for the Mobilized Undrained Shear Strength of Clays. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	1.5	10
71	Calibration of model uncertainties in base heave stability for wide excavations in clay. Soils and Foundations, 2014, 54, 1159-1174.	1.3	11
72	Probability Distribution for Mobilized Shear Strengths of Saturated Undrained Clays Modeled by 2-D Stationary Gaussian Random Field - A 1-D Stochastic Process View. Journal of Mechanics, 2014, 30, 229-239.	0.7	3

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73	Mean and Variance of Mobilized Shear Strength for Spatially Variable Soils under Uniform Stress States. Journal of Engineering Mechanics - ASCE, 2014, 140, 487-501.	1.6	36
74	Reply to the discussion by Mesri on“Multivariate distribution for undrained shear strengths under various test procedures” Canadian Geotechnical Journal, 2014, 51, 348-351.	1.4	2
75	Modeling piezocone cone penetration (CPTU) parameters of clays as a multivariate normal distribution. Canadian Geotechnical Journal, 2014, 51, 77-91.	1.4	56
76	Linking Site Investigation Efforts to Final Design Savings with Simplified Reliability-Based Design Methods. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	1.5	34
77	The critical scale of fluctuation for active lateral forces in spatially variable undrained clays. Computers and Geotechnics, 2014, 57, 24-29.	2.3	6
78	Transformations and correlations among some clay parameters “ the global database. Canadian Geotechnical Journal, 2014, 51, 663-685.	1.4	86
79	Correlations among some clay parameters “ the multivariate distribution. Canadian Geotechnical Journal, 2014, 51, 686-704.	1.4	97
80	Probabilistic observational method for estimating wall displacements in excavations. Canadian Geotechnical Journal, 2014, 51, 1111-1122.	1.4	13
81	Statistics for the calculated safety factors of undrained failure slopes. Engineering Geology, 2014, 172, 85-94.	2.9	21
82	Quantile Value Method for Geotechnical Reliability Code Calibration. , 2014, , .		0
83	Characterization of geotechnical variability “ a multivariate perspective. , 2014, , 61-70.		1
84	Quantile value method versus design value method for calibration of reliability-based geotechnical codes. Structural Safety, 2013, 44, 47-58.	2.8	32
85	Effect of element sizes in random field finite element simulations of soil shear strength. Computers and Structures, 2013, 126, 120-134.	2.4	69
86	Determining the Factors of Safety of Spatially Variable Slopes Modeled by Random Fields. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 2082-2095.	1.5	42
87	Simplified procedure for estimation of liquefaction-induced settlement and site-specific probabilistic settlement exceedance curve using cone penetration test (CPT). Canadian Geotechnical Journal, 2013, 50, 1055-1066.	1.4	56
88	Predicting Wall Displacements for Excavations with Cross Walls in Soft Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 914-927.	1.5	41
89	Multivariate distribution for undrained shear strengths under various test procedures. Canadian Geotechnical Journal, 2013, 50, 907-923.	1.4	61
90	Performance of reliability-based design code formats for foundations in layered soils. Computers and Structures, 2013, 126, 100-106.	2.4	15

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91	Probability distribution for mobilised shear strengths of spatially variable soils under uniform stress states. Georisk, 2013, 7, 209-224.	2.6	49
92	Estimation of rock pressure during an excavation/cut in sedimentary rocks with inclined bedding planes. Structural Safety, 2013, 41, 11-19.	2.8	16
93	Simplified reliability method for spatially variable undrained engineered slopes. Soils and Foundations, 2013, 53, 708-719.	1.3	49
94	Mobilized shear strength of spatially variable soils under simple stress states. Structural Safety, 2013, 41, 20-28.	2.8	62
95	Multivariate Model for Soil Parameters Based on Johnson Distributions. , 2013, , .		13
96	Simulating Spatial Averages of Stationary Random Field Using the Fourier Series Method. Journal of Engineering Mechanics - ASCE, 2013, 139, 594-605.	1.6	51
97	Robustness of Constant Load and Resistance Factor Design Factors for Drilled Shafts in Multiple Strata. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1104-1114.	1.5	13
98	Second-Moment Characterization of Undrained Shear Strengths from Different Test Procedures. , 2013, , .		1
99	Assessing SPT-based probabilistic models for liquefaction potential evaluation: a 10-year update. Georisk, 2013, 7, 137-150.	2.6	20
100	Is Site Investigation An Investment Or Expense? â€œ A Reliability Perspective. , 2013, , .		1
101	Reliability-based design for the serviceability state design of an excavation with cross walls in clays. , 2013, , 471-476.		0
102	DISCUSSION: Predicting rainfall-induced landslide potential along a mountain road in Taiwan J. CHING, H.-J. LIAO and J.-Y. LEE (2011).GÃ©otechnique61, No. 2, 153â€“166. Geotechnique, 2012, 62, 555-561.	2.2	0
103	Reliability-Based Design for Basal Heave Stability of Deep Excavations in Spatially Varying Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 594-603.	1.5	44
104	Examination of Multivariate Dependency Structure in Soil Parameters. , 2012, , .		2
105	Unified CPTu-based probabilistic model for assessing probability of liquefaction of sand and clay. Geotechnique, 2012, 62, 877-892.	2.2	19
106	Value of Geotechnical Site Investigation in Reliability-Based Design. Advances in Structural Engineering, 2012, 15, 1935-1945.	1.2	19
107	Probabilistic version of the Robertson and Wride method for liquefaction evaluation: development and application. Canadian Geotechnical Journal, 2012, 49, 27-44.	1.4	55
108	Probabilistic Model for Overall Shear Strengths of Spatially Variable Soil Masses. , 2012, , .		1

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109	Modeling parameters of structured clays as a multivariate normal distribution. Canadian Geotechnical Journal, 2012, 49, 522-545.	1.4	100
110	Updating Uncertainties in Friction Angles of Clean Sands. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 217-229.	1.5	38
111	New models for probability of liquefaction using standard penetration tests based on an updated database of case histories. Engineering Geology, 2012, 133-134, 85-93.	2.9	64
112	Establishment of generic transformations for geotechnical design parameters. Structural Safety, 2012, 35, 52-62.	2.8	32
113	Overall Shear Strength of Soil Mass With Spatial Variability. , 2012, , .		0
114	Predicting rainfall-induced landslide potential along a mountain road in Taiwan. Geotechnique, 2011, 61, 153-166.	2.2	20
115	Selection among CPTU-Based Liquefaction Models. Procedia Engineering, 2011, 14, 2576-2584.	1.2	2
116	Practical Monte Carlo Based Reliability Analysis and Design Methods for Geotechnical Problems. , 2011, , .		2
117	Constructing Joint Distributions of Multivariate Geotechnical Data. , 2011, , .		1
118	Quantile Framework for Simplified Geotechnical Reliability-Based Design. , 2011, , .		0
119	Challenges in limit equilibrium based slope reliability problems. , 2011, , 1709-1715.		1
120	Updating Uncertainties in Friction Angles of Clean Sands. , 2011, , .		0
121	Reliability-based design for allowable bearing capacity of footings on rock masses by considering angle of distortion. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 728-740.	2.6	18
122	A quantile-based approach for calibrating reliability-based partial factors. Structural Safety, 2011, 33, 275-285.	2.8	44
123	Calibrating Resistance Factors of Single Bored Piles Based on Incomplete Load Test Results. Journal of Engineering Mechanics - ASCE, 2011, 137, 309-323.	1.6	8
124	Reliability-Based Design for External Stability of Narrow Mechanically Stabilized Earth Walls: Calibration from Centrifuge Tests. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 239-253.	1.5	24
125	Reliability Based Design of Base Heave Stability in Wide Excavations. , 2011, , .		2
126	Effective Shear Strengths of Isotropic Spatially Variable Soil Masses. , 2011, , .		0

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127	Liquefaction Probability by Probabilistic Version of Robertson and Wride Model. , 2011, , .		0
128	Reliability-Based Design for Allowable Bearing Capacity by Considering Differential Settlement on Highly Fractured Rock Masses. , 2011, , .		1
129	Complexity of Limit Equilibrium Based Slope Reliability Problems. , 2010, , .		0
130	Reliability-Based Design for Basal Heave in an Excavation Considering Spatial Variability. , 2010, , .		5
131	Evaluating small failure probabilities of multiple limit states by parallel subset simulation. Probabilistic Engineering Mechanics, 2010, 25, 291-304.	1.3	47
132	Converting reliability constraints by adaptive quantile estimation. Structural Safety, 2010, 32, 316-325.	2.8	1
133	Predicting displacement of augered cast-in-place piles based on load test database. Structural Safety, 2010, 32, 372-383.	2.8	8
134	Observations on Limit Equilibrium-Based Slope Reliability Problems with Inclined Weak Seams. Journal of Engineering Mechanics - ASCE, 2010, 136, 1220-1233.	1.6	25
135	Updating Uncertainties in Undrained Shear Strengths by Multivariate Correlations. , 2010, , .		2
136	Reducing shear strength uncertainties in clays by multivariate correlations. Canadian Geotechnical Journal, 2010, 47, 16-33.	1.4	82
137	Calibrating Resistance Factors of Single Bored Piles Based on Incomplete Load Test Information. , 2010, , .		1
138	Approximate reliability-based design with general geotechnical models by stochastic simulation. Georisk, 2009, 3, 58-66.	2.6	0
139	Reliability-Based Code Calibration for Axial Ultimate Bearing Capacities of Single Bored Piles in Taipei Basin. Journal of Mechanics, 2009, 25, 389-400.	0.7	3
140	Updating real-time reliability of instrumented systems with stochastic simulation. Probabilistic Engineering Mechanics, 2009, 24, 242-250.	1.3	12
141	Model selection issue in calibrating reliability-based resistance factors based on geotechnical in-situ test data. Structural Safety, 2009, 31, 420-431.	2.8	5
142	Equivalence between reliability and factor of safety. Probabilistic Engineering Mechanics, 2009, 24, 159-171.	1.3	27
143	Bayesian updating of reliability of civil infrastructure facilities based on condition-state data and fault-tree model. Reliability Engineering and System Safety, 2009, 94, 1962-1974.	5.1	48
144	Updating future reliability of nonlinear systems with low dimensional monitoring data using short-cut simulation. Computers and Structures, 2009, 87, 871-879.	2.4	3

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145	Propagating uncertainties for loss estimation in performance-based earthquake engineering using moment matching. Structure and Infrastructure Engineering, 2009, 5, 245-262.	2.0	16
146	Efficient Evaluation of Reliability for Slopes with Circular Slip Surfaces Using Importance Sampling. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 768-777.	1.5	139
147	Approximation of reliability constraints by estimating quantile functions. Structural Engineering and Mechanics, 2009, 32, 127-145.	1.0	2
148	Approximate optimization of systems with high-dimensional uncertainties and multiple reliability constraints. Computer Methods in Applied Mechanics and Engineering, 2008, 198, 52-71.	3.4	8
149	Transforming reliability limit-state constraints into deterministic limit-state constraints. Structural Safety, 2008, 30, 11-33.	2.8	29
150	Calibration of Reliability-Based Resistance Factors for Flush Drilled Soil Anchors in Taipei Basin. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 1348-1363.	1.5	8
151	Damage localization with modeling errors and uncertainties. , 2008, , .		0
152	Local Estimation of Failure Probability Function with Direct Monte Carlo Simulation. , 2007, , 1.		0
153	Approximate Reliability-Based Optimization Using a Three-Step Approach Based on Subset Simulation. Journal of Engineering Mechanics - ASCE, 2007, 133, 481-493.	1.6	45
154	Transitional Markov Chain Monte Carlo Method for Bayesian Model Updating, Model Class Selection, and Model Averaging. Journal of Engineering Mechanics - ASCE, 2007, 133, 816-832.	1.6	574
155	Local estimation of failure probability function and its confidence interval with maximum entropy principle. Probabilistic Engineering Mechanics, 2007, 22, 39-49.	1.3	92
156	Real-time reliability estimation for serviceability limit states in structures with uncertain dynamic excitation and incomplete output data. Probabilistic Engineering Mechanics, 2007, 22, 50-62.	1.3	34
157	An Efficient Method for Evaluating Origin-Destination Connectivity Reliability of Real-World Lifeline Networks. Computer-Aided Civil and Infrastructure Engineering, 2007, 22, 584-596.	6.3	19
158	Application of subset simulation methods to reliability benchmark problems. Structural Safety, 2007, 29, 183-193.	2.8	213
159	Bayesian State Estimation Method for Nonlinear Systems and Its Application to Recorded Seismic Response. Journal of Engineering Mechanics - ASCE, 2006, 132, 396-410.	1.6	69
160	Structural Model Updating and Health Monitoring with Incomplete Modal Data Using Gibbs Sampler. Computer-Aided Civil and Infrastructure Engineering, 2006, 21, 242-257.	6.3	123
161	Bayesian state and parameter estimation of uncertain dynamical systems. Probabilistic Engineering Mechanics, 2006, 21, 81-96.	1.3	195
162	Reducing performance uncertainties with monitoring data. , 2006, , .		0

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163	Reliability estimation for dynamical systems subject to stochastic excitation using subset simulation with splitting. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 1557-1579.	3.4	118
164	Hybrid Subset Simulation method for reliability estimation of dynamical systems subject to stochastic excitation. Probabilistic Engineering Mechanics, 2005, 20, 199-214.	1.3	87
165	Microseismic source deconvolution: Wiener filter versus minimax, Fourier versus wavelets, and linear versus nonlinear. Journal of the Acoustical Society of America, 2004, 115, 3048-3058.	0.5	8
166	New Bayesian Model Updating Algorithm Applied to a Structural Health Monitoring Benchmark. Structural Health Monitoring, 2004, 3, 313-332.	4.3	76
167	Bayesian Analysis of the Phase II IASCA€ASCE Structural Health Monitoring Experimental Benchmark Data. Journal of Engineering Mechanics - ASCE, 2004, 130, 1233-1244.	1.6	93
168	Dynamic Modeling of Large-Scale Magnetorheological Damper Systems for Civil Engineering Applications. Journal of Engineering Mechanics - ASCE, 2004, 130, 1107-1114.	1.6	192
169	Identification of soil degradation during earthquake excitations by Bayesian inference. Earthquake Engineering and Structural Dynamics, 2003, 32, 845-869.	2.5	14
170	Tracking rapidly changing dynamical systems using a non-parametric statistical method based on wavelets. Earthquake Engineering and Structural Dynamics, 2003, 32, 2377-2406.	2.5	6
171	1D Time-Domain Solution for Seismic Ground Motion Prediction. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2001, 127, 36-47.	1.5	24
172	Quasi-site-specific prediction for deformation modulus of rock mass. Canadian Geotechnical Journal, 0, , 1-16.	1.4	31
173	Data-centric quasi-site-specific prediction for compressibility of clays. Canadian Geotechnical Journal, 0, , .	1.4	3