John Douglas

List of Publications by Year
in descending order

108 papers	4,935 citations	117453 34 h-index	98622 67 g-index
115 all docs	115 docs citations	115 times ranked	2983 citing authors

#	Article	IF	Citations
1	Examining the contribution of near real-time data for rapid seismic loss assessment of structures. Structural Health Monitoring, 2022, 21, 118-137.	4.3	12
2	Site Response Analysis of Anchorage, Alaska Using Generalized Inversions of Strong-Motion Data (2004â€“2019). Pure and Applied Geophysics, 2022, 179, 499.	0.8	1
3	Opportunities for the development of professional skills for undergraduate civil and environmental engineers. European Journal of Engineering Education, 2022, 47, 793-813.	1.5	3
4	Exploring the impact of spatial correlations of earthquake ground motions in the catastrophe modelling process: a case study for Italy. Bulletin of Earthquake Engineering, 2022, 20, 5747-5773.	2.3	4
5	Guidance on Conducting 2D Linear Viscoelastic Site Response Analysis Using a Finite Element Code. Journal of Earthquake Engineering, 2021, 25, 1153-1170.	1.4	5
6	Influence of the Site-Specific Component of Kappa on the Magnitude-Dependency of Within-Event Aleatory Variabilities in Ground-Motion Models. Seismological Research Letters, 2021, 92, 238-245.	0.8	0
7	Costâ€“benefit analyses to assess the potential of Operational Earthquake Forecasting prior to a mainshock in Europe. Natural Hazards, 2021, 105, 293-311.	1.6	8
8	Seismic risk management through insurance and its sensitivity to uncertainty in the hazard model. Natural Hazards, 2021, 108, 1629-1657.	1.6	12
9	Assessment of the uncertainty in spatial-correlation models for earthquake ground motion due to station layout and derivation method. Bulletin of Earthquake Engineering, 2021, 19, 5415-5438.	2.3	5
10	Evaluation of horizontal to vertical spectral ratio and standard spectral ratio methods for mapping shear wave velocity across anchorage, Alaska. Soil Dynamics and Earthquake Engineering, 2021, 150, 106918.	1.9	3
11	A decision-making approach for operational earthquake forecasting. International Journal of Disaster Risk Reduction, 2021, 66, 102591.	1.8	4
12	Nomogram to help explain probabilistic seismic hazard. Journal of Seismology, 2020, 24, 221-228.	0.6	9
13	Evaluating alternative approaches for the seismic design of structures. Bulletin of Earthquake Engineering, 2020, 18, 4331-4361.	2.3	17
14	Improving earthquake ground-motion predictions for the North Sea. Journal of Seismology, 2020, 24, 343-362.	0.6	2
15	Modelling the spatial correlation of earthquake ground motion: Insights from the literature, data from the 2016â€“2017 Central Italy earthquake sequence and ground-motion simulations. Earth-Science Reviews, 2020, 203, 103139.	4.0	42
16	Probabilistic seismic hazard assessment for a new-build nuclear power plant site in the UK. Bulletin of Earthquake Engineering, 2019, 17, 1-36.	2.3	36
17	A streamlined approach for the seismic hazard assessment of a new nuclear power plant in the UK. Bulletin of Earthquake Engineering, 2019, 17, 37-54.	2.3	9
18	Managing Bridge Scour Risk Using Structural Health Monitoring. , 2019, , .		2

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19	Comparison of Soil Nonlinearity (<i>In Situ</i>Stressâ€“Strain Relation and G/Gmax Reduction) Observed in Strongâ€Motion Databases and Modeled in Groundâ€Motion Prediction Equations. Bulletin of the Seismological Society of America, 2019, 109, 178-186.	1.1	23
20	Comparison of methods to develop risk-targeted seismic design maps. Bulletin of Earthquake Engineering, 2019, 17, 3727-3752.	2.3	43
21	An accessible approach for the site response analysis of quasi-horizontal layered deposits. Bulletin of Earthquake Engineering, 2019, 17, 1163-1183.	2.3	6
22	Do French macroseismic intensity observations agree with expectations from the European Seismic Hazard Model 2013?. Journal of Seismology, 2018, 22, 589-604.	0.6	11
23	Capturing Geographically-Varying Uncertainty in Earthquake Ground Motion Models or What We Think We Know May Change. Geotechnical, Geological and Earthquake Engineering, 2018, , 153-181.	0.1	25
24	Risk Targeting in Seismic Design Codes: The State of the Art, Outstanding Issues and Possible Paths Forward. Springer Natural Hazards, 2018, , 211-223.	0.1	13
25	Peak ground accelerations from large (MÂâ‰¥Â7.2) shallow crustal earthquakes: a comparison with predictions from eight recent ground-motion models. Bulletin of Earthquake Engineering, 2018, 16, 1-21.	2.3	21
26	Stress accumulation in the Marmara Sea estimated through groundâ€motion simulations from dynamic rupture scenarios. Journal of Geophysical Research: Solid Earth, 2017, 122, 2219-2235.	1.4	6
27	Inferring Earthquake Groundâ€Motion Fields with Bayesian Networks. Bulletin of the Seismological Society of America, 2017, 107, 2792-2808.	1.1	15
28	Estimating Ground Motions In The Largest Crustal Earthquakes. , 2017, , .		0
29	Assessing Components of Groundâ€Motion Variability from Simulations for the Marmara Sea Region (Turkey). Bulletin of the Seismological Society of America, 2016, 106, 300-306.	1.1	15
30	FRACAS: A capacity spectrum approach for seismic fragility assessment including record-to-record variability. Engineering Structures, 2016, 125, 337-348.	2.6	62
31	Recent and future developments in earthquake ground motion estimation. Earth-Science Reviews, 2016, 160, 203-219.	4.0	142
32	Earthquake early warning and operational earthquake forecasting as real-time hazard information to mitigate seismic risk at nuclear facilities. Bulletin of Earthquake Engineering, 2016, 14, 2495-2512.	2.3	30
33	An Updated Probabilistic Seismic Hazard Assessment for Romania and Comparison with the Approach and Outcomes of the SHARE Project. Pure and Applied Geophysics, 2016, 173, 1881-1905.	0.8	59
34	Accounting for end-user preferences in earthquake early warning systems. Bulletin of Earthquake Engineering, 2016, 14, 297-319.	2.3	11
35	Comment on the paper â€˜A risk-mitigation approach to the management of induced seismicityâ€™ by J. J. Bommer, H. Crowley and R. Pinho. Journal of Seismology, 2016, 20, 393-394.	0.6	4
36	Influence of the Number of Dynamic Analyses on the Accuracy of Structural Response Estimates. Earthquake Spectra, 2015, 31, 97-113.	1.6	41

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37	Selection of Ground Motion Prediction Equations for the Global Earthquake Model. Earthquake Spectra, 2015, 31, 19-45.	1.6	115
38	Assessing the impact of ground-motion variability and uncertainty on empirical fragility curves. Soil Dynamics and Earthquake Engineering, 2015, 69, 83-92.	1.9	33
39	Evaluation of seismic hazard for the assessment of historical elements at risk: description of input and selection of intensity measures. Bulletin of Earthquake Engineering, 2015, 13, 49-65.	2.3	31
40	Limits on the potential accuracy of earthquake risk evaluations using the Lâ€™Aquila (Italy) earthquake as an example. Annals of Geophysics, 2015, 58, .	0.5	6
41	Investigating the Use of Record-to-Record Variability in Static Capacity Approaches. , 2014, , .		4
42	Sensitivity Analysis of Different Capacity Spectrum Approaches to Assumptions in the Modeling, Capacity and Demand Representations. , 2014, , .		4
43	Comparison of the Ranges of Uncertainty Captured in Different Seismic-Hazard Studies. Seismological Research Letters, 2014, 85, 977-985.	0.8	35
44	Magnitude scaling of induced earthquakes. Geothermics, 2014, 52, 132-139.	1.5	33
45	Using Estimated Risk to Develop Stimulation Strategies for Enhanced Geothermal Systems. Pure and Applied Geophysics, 2014, 171, 1847-1858.	0.8	18
46	Fragility curves for risk-targeted seismic design maps. Bulletin of Earthquake Engineering, 2014, 12, 1479-1491.	2.3	25
47	Reference database for seismic ground-motion in Europe (RESORCE). Bulletin of Earthquake Engineering, 2014, 12, 311-339.	2.3	212
48	Preface of special issue: A new generation of ground-motion models for Europe and the Middle East. Bulletin of Earthquake Engineering, 2014, 12, 307-310.	2.3	4
49	Special issue in memory of Nicholas Ambraseys. Bulletin of Earthquake Engineering, 2014, 12, 1-3.	2.3	5
50	Comparisons among the five ground-motion models developed using RESORCE for the prediction of response spectral accelerations due to earthquakes in Europe and the Middle East. Bulletin of Earthquake Engineering, 2014, 12, 341-358.	2.3	71
51	Eurocode 8-compatible synthetic time-series as input to dynamic analysis. Bulletin of Earthquake Engineering, 2014, 12, 755-768.	2.3	10
52	Weighing the importance of model uncertainty against parameter uncertainty in earthquake loss assessments. Soil Dynamics and Earthquake Engineering, 2014, 58, 1-9.	1.9	16
53	Vector-valued fragility functions for seismic risk evaluation. Bulletin of Earthquake Engineering, 2013, 11, 365-384.	2.3	89
54	Risk-targeted seismic design maps for mainland France. Natural Hazards, 2013, 65, 1999-2013.	1.6	66

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55	Seismic network design to detect felt ground motions from induced seismicity. Soil Dynamics and Earthquake Engineering, 2013, 48, 193-197.	1.9	4
56	Nicholas Neocles Ambraseys. Geotechnique, 2013, 63, 1456-1457.	2.2	0
57	Selecting ground-motion models developed for induced seismicity in geothermal areas. Geophysical Journal International, 2013, 195, 1314-1322.	1.0	17
58	Predicting Ground Motion from Induced Earthquakes in Geothermal Areas. Bulletin of the Seismological Society of America, 2013, 103, 1875-1897.	1.1	76
59	Testing the Applicability of Correlations between Topographic Slope and VS30 for Europe. Bulletin of the Seismological Society of America, 2012, 102, 2585-2599.	1.1	55
60	Consistency of ground-motion predictions from the past four decades: peak ground velocity and displacement, Arias intensity and relative significant duration. Bulletin of Earthquake Engineering, 2012, 10, 1339-1356.	2.3	15
61	Toward a ground-motion logic tree for probabilistic seismic hazard assessment in Europe. Journal of Seismology, 2012, 16, 451-473.	0.6	176
62	Accounting for Site Characterization Uncertainties When Developing Ground-Motion Prediction Equations. Bulletin of the Seismological Society of America, 2011, 101, 1101-1108.	1.1	10
63	Influence of Super-Shear Earthquake Rupture Models on Simulated Near-Source Ground Motion from the 1999 Izmit, Turkey, Earthquake. Bulletin of the Seismological Society of America, 2011, 101, 726-741.	1.1	10
64	High-frequency filtering of strong-motion records. Bulletin of Earthquake Engineering, 2011, 9, 395-409.	2.3	87
65	Assessment of ground motion variability and its effects on seismic hazard analysis: a case study for iceland. Bulletin of Earthquake Engineering, 2011, 9, 931-953.	2.3	29
66	Modeling the Difference in Ground-Motion Magnitude-Scaling in Small and Large Earthquakes. Seismological Research Letters, 2011, 82, 504-508.	0.8	37
67	Investigating Possible Regional Dependence in Strong Ground Motions. Geotechnical, Geological and Earthquake Engineering, 2011, , 29-38.	0.1	13
68	Development of seismic fragility surfaces for reinforced concrete buildings by means of nonlinear timeâ€history analysis. Earthquake Engineering and Structural Dynamics, 2010, 39, 91-108.	2.5	39
69	A Îº Model for Mainland France. Pure and Applied Geophysics, 2010, 167, 1303-1315.	0.8	80
70	Consistency of ground-motion predictions from the past four decades. Bulletin of Earthquake Engineering, 2010, 8, 1515-1526.	2.3	37
71	On the Selection of Ground-Motion Prediction Equations for Seismic Hazard Analysis. Seismological Research Letters, 2010, 81, 783-793.	0.8	244
72	Comment on "Test of Seismic Hazard Map from 500 Years of Recorded Intensity Data in Japan" by Masatoshi Miyazawa and Jim Mori. Bulletin of the Seismological Society of America, 2010, 100, 3329-3331.	1.1	8

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73	Building self-consistent, short-term earthquake probability (STEP) models: improved strategies and calibration procedures. Annals of Geophysics, 2010, 53, .	0.5	11
74	Dependency of Near-Field Ground Motions on the Structural Maturity of the Ruptured Faults. Bulletin of the Seismological Society of America, 2009, 99, 2572-2581.	1.1	49
75	Comparing predicted and observed ground motions from subduction earthquakes in the Lesser Antilles. Journal of Seismology, 2009, 13, 577-587.	0.6	26
76	Ground-Motion Prediction Equations Based on Data from the Himalayan and Zagros Regions. Journal of Earthquake Engineering, 2009, 13, 1191-1210.	1.4	131
77	Making the Most of Available Site Information for Empirical Ground-Motion Prediction. Bulletin of the Seismological Society of America, 2009, 99, 1502-1520.	1.1	34
78	A Survey of Techniques for Predicting Earthquake Ground Motions for Engineering Purposes. Surveys in Geophysics, 2008, 29, 187-220.	2.1	132
79	Investigating strong ground-motion variability using analysis of variance and two-way-fit plots. Bulletin of Earthquake Engineering, 2008, 6, 389-405.	2.3	20
80	Connecting Hazard Analysts and Risk Managers to Sensor Information. Sensors, 2008, 8, 3932-3937.	2.1	8
81	An Open Distributed Architecture for Sensor Networks for Risk Management. Sensors, 2008, 8, 1755-1773.	2.1	34
82	Site Classification Using Horizontal-to-vertical Response Spectral Ratios and its Impact when Deriving Empirical Ground-motion Prediction Equations. Journal of Earthquake Engineering, 2007, 11, 712-724.	1.4	59
83	Physical vulnerability modelling in natural hazard risk assessment. Natural Hazards and Earth System Sciences, 2007, 7, 283-288.	1.5	124
84	Long-period earthquake ground displacements recorded on Guadeloupe (French Antilles). Earthquake Engineering and Structural Dynamics, 2007, 36, 949-963.	2.5	19
85	The importance of crustal structure in explaining the observed uncertainties in ground motion estimation. Bulletin of Earthquake Engineering, 2007, 5, 17-26.	2.3	12
86	Inferred ground motions on Guadeloupe during the 2004 Les Saintes earthquake. Bulletin of Earthquake Engineering, 2007, 5, 363-376.	2.3	15
87	Comment on "Influence of Focal Mechanism in Probabilistic Seismic Hazard Analysis" by Vincenzo Convertito and Andre Herrero. Bulletin of the Seismological Society of America, 2006, 96, 750-753.	1.1	2
88	A preliminary investigation of strong-motion data from the French Antilles. Journal of Seismology, 2006, 10, 271-299.	0.6	28
89	Testing the Validity of Simulated Strong Ground Motion from the Dynamic Rupture of a Finite Fault, by Using Empirical Equations. Bulletin of Earthquake Engineering, 2006, 4, 211-229.	2.3	25
90	GROUND-MOTION PREDICTION EQUATIONS FOR SOUTHERN SPAIN AND SOUTHERN NORWAY OBTAINED USING THE COMPOSITE MODEL PERSPECTIVE. Journal of Earthquake Engineering, 2006, 10, 33-72.	1.4	22

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91	Title is missing!. Journal of Earthquake Engineering, 2006, 10, 33.	1.4	30
92	Equations for the Estimation of Strong Ground Motions from Shallow Crustal Earthquakes Using Data from Europe and the Middle East: Horizontal Peak Ground Acceleration and Spectral Acceleration. Bulletin of Earthquake Engineering, 2005, 3, 1-53.	2.3	435
93	Equations for the Estimation of Strong Ground Motions from Shallow Crustal Earthquakes Using Data from Europe and the Middle East: Vertical Peak Ground Acceleration and Spectral Acceleration. Bulletin of Earthquake Engineering, 2005, 3, 55-73.	2.3	52
94	Magnitude calibration of north Indian earthquakes. Geophysical Journal International, 2004, 159, 165-206.	1.0	357
95	On the Incorporation of the Effect of Crustal Structure into Empirical Strong Ground Motion Estimation. Bulletin of Earthquake Engineering, 2004, 2, 75-99.	2.3	19
96	An investigation of analysis of variance as a tool for exploring regional differences in strong ground motions. Journal of Seismology, 2004, 8, 485-496.	0.6	53
97	What is a Poor Quality Strong-Motion Record?. Bulletin of Earthquake Engineering, 2003, 1, 141-156.	2.3	47
98	Style-of-Faulting in Ground-Motion Prediction Equations. Bulletin of Earthquake Engineering, 2003, 1, 171-203.	2.3	148
99	Earthquake ground motion estimation using strong-motion records: a review of equations for the estimation of peak ground acceleration and response spectral ordinates. Earth-Science Reviews, 2003, 61, 43-104.	4.0	389
100	Near-field horizontal and vertical earthquake ground motions. Soil Dynamics and Earthquake Engineering, 2003, 23, 1-18.	1.9	140
101	Effect of Vertical Ground Motions on Horizontal Response of Structures. International Journal of Structural Stability and Dynamics, 2003, 03, 227-265.	1.5	5
102	Title is missing!. Journal of Earthquake Engineering, 2003, 7, 373.	1.4	0
103	NOTE ON THE INCLUSION OF SITE CLASSIFICATION INFORMATION IN EQUATIONS TO ESTIMATE STRONG GROUND MOTIONS. Journal of Earthquake Engineering, 2003, 7, 373-380.	1.4	1
104	Note on scaling of peak ground acceleration and peak ground velocity with magnitude. Geophysical Journal International, 2002, 148, 336-339.	1.0	7
105	How Accurate Can Strong Ground Motion Attenuation Relations Be?. Bulletin of the Seismological Society of America, 2001, 91, 1917-1923.	1.1	49
106	Reappraisal of surface wave magnitudes in the Eastern Mediterranean region and the Middle East. Geophysical Journal International, 2000, 141, 357-373.	1.0	17
107	Nonlinear Site Effects from the 30 November 2018 Anchorage, Alaska, Earthquake. Bulletin of the Seismological Society of America, 0, , .	1.1	4
108	Engineering site response analysis of Anchorage, Alaska, using site amplifications and random vibration theory. Earthquake Spectra, 0, , 875529302110654.	1.6	1