

Peter J Stafford

List of Publications by Year in descending order

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85
papers

3,168
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136740

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times ranked

1832
citing authors

#	ARTICLE	IF	CITATIONS
1	Empirical Equations for the Prediction of the Significant, Bracketed, and Uniform Duration of Earthquake Ground Motion. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 3217-3233.	1.1	213
2	Numbers of scaled and matched accelerograms required for inelastic dynamic analyses. <i>Earthquake Engineering and Structural Dynamics</i> , 2008, 37, 1585-1607.	2.5	170
3	An evaluation of the applicability of the NGA models to ground-motion prediction in the Euro-Mediterranean region. <i>Bulletin of Earthquake Engineering</i> , 2008, 6, 149-177.	2.3	154
4	The Influence of Magnitude Range on Empirical Ground-Motion Prediction. <i>Bulletin of the Seismological Society of America</i> , 2007, 97, 2152-2170.	1.1	145
5	Application of Single-Station Sigma and Site-Response Characterization in a Probabilistic Seismic-Hazard Analysis for a New Nuclear Site. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 1601-1619.	1.1	133
6	Selection of Ground Motion Prediction Equations for the Global Earthquake Model. <i>Earthquake Spectra</i> , 2015, 31, 19-45.	1.6	115
7	On the Relationship between Fourier and Response Spectra: Implications for the Adjustment of Empirical Ground-Motion Prediction Equations (GMPEs). <i>Bulletin of the Seismological Society of America</i> , 2016, 106, 1235-1253.	1.1	110
8	Crossed and Nested Mixed-Effects Approaches for Enhanced Model Development and Removal of the Ergodic Assumption in Empirical Ground-Motion Models. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 702-719.	1.1	108
9	Experimental assessment and constitutive modelling of rubberised concrete materials. <i>Construction and Building Materials</i> , 2017, 137, 246-260.	3.2	102
10	Developing an Application-Specific Ground-Motion Model for Induced Seismicity. <i>Bulletin of the Seismological Society of America</i> , 2016, 106, 158-173.	1.1	84
11	Development of a Response Spectral Ground-Motion Prediction Equation (GMPE) for Seismic-Hazard Analysis from Empirical Fourier Spectral and Duration Models. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 2192-2218.	1.1	83
12	A predictive model for Arias intensity at multiple sites and consideration of spatial correlations. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 431-451.	2.5	79
13	A SSHAC Level 3 Probabilistic Seismic Hazard Analysis for a New-Build Nuclear Site in South Africa. <i>Earthquake Spectra</i> , 2015, 31, 661-698.	1.6	77
14	New predictive equations for Arias intensity from crustal earthquakes in New Zealand. <i>Journal of Seismology</i> , 2009, 13, 31-52.	0.6	74
15	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. <i>Bulletin of Earthquake Engineering</i> , 2014, 12, 341-358.	2.3	71
16	Fourier spectral- and duration models for the generation of response spectra adjustable to different source-, propagation-, and site conditions. <i>Bulletin of Earthquake Engineering</i> , 2014, 12, 467-493.	2.3	70
17	Framework for a Ground-Motion Model for Induced Seismic Hazard and Risk Analysis in the Groningen Gas Field, The Netherlands. <i>Earthquake Spectra</i> , 2017, 33, 481-498.	1.6	66
18	Scenario Dependence of Linear Site-Effect Factors for Short-Period Response Spectral Ordinates. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 2859-2872.	1.1	64

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19	Probabilistic seismic hazard analysis for rock sites in the cities of Abu Dhabi, Dubai and Ra's Al Khaymah, United Arab Emirates. <i>Georisk</i> , 2009, 3, 1-29.	2.6	60
20	Earthquake Accelerogram Selection and Scaling Procedures for Estimating the Distribution of Drift Response. <i>Journal of Structural Engineering</i> , 2011, 137, 345-357.	1.7	57
21	Performance of rubberised reinforced concrete members under cyclic loading. <i>Engineering Structures</i> , 2018, 166, 526-545.	2.6	56
22	Probabilistic assessment of the seismic performance of earth slopes. <i>Bulletin of Earthquake Engineering</i> , 2014, 12, 1071-1090.	2.3	55
23	The Influence of Geographical Resolution of Urban Exposure Data in an Earthquake Loss Model for Istanbul. <i>Earthquake Spectra</i> , 2010, 26, 619-634.	1.6	51
24	Addressing limitations in existing "simplified" liquefaction triggering evaluation procedures: application to induced seismicity in the Groningen gas field. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 4539-4557.	2.3	50
25	Dependence of Damping Correction Factors for Response Spectra on Duration and Numbers of Cycles. <i>Journal of Structural Engineering</i> , 2008, 134, 1364-1373.	1.7	48
26	Vector fragility surfaces for reinforced concrete frames in Europe. <i>Bulletin of Earthquake Engineering</i> , 2014, 12, 1725-1753.	2.3	47
27	Can Earthquake Loss Models be Validated Using Field Observations?. <i>Journal of Earthquake Engineering</i> , 2008, 12, 1078-1104.	1.4	39
28	Empirical equations for the prediction of the equivalent number of cycles of earthquake ground motion. <i>Soil Dynamics and Earthquake Engineering</i> , 2009, 29, 1425-1436.	1.9	39
29	Influence of the mean period of ground motion on the inelastic dynamic response of single and multi degree of freedom systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2011, 40, 237-256.	2.5	38
30	An energy-based envelope function for the stochastic simulation of earthquake accelerograms. <i>Soil Dynamics and Earthquake Engineering</i> , 2009, 29, 1123-1133.	1.9	37
31	Influence of ground motion characteristics on drift demands in steel moment frames designed to Eurocode 8. <i>Engineering Structures</i> , 2013, 52, 502-517.	2.6	36
32	Recent Developments in the Treatment of Ground-Motion Variability in Earthquake Loss Models. <i>Journal of Earthquake Engineering</i> , 2008, 12, 71-80.	1.4	35
33	Current empirical ground-motion prediction equations for Europe and their application to Eurocode 8. <i>Bulletin of Earthquake Engineering</i> , 2010, 8, 5-26.	2.3	29
34	Evaluation of structural performance in the immediate aftermath of an earthquake: a case study of the 2011 Christchurch earthquake. <i>International Journal of Forensic Engineering</i> , 2012, 1, 58.	0.1	29
35	Serviceability limit state of vibrations in under-deck cable-stayed bridges accounting for vehicle-structure interaction. <i>Engineering Structures</i> , 2014, 61, 61-72.	2.6	29
36	On the gradient of the yield plateau in structural carbon steels. <i>Journal of Constructional Steel Research</i> , 2017, 130, 120-130.	1.7	26

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37	Capturing epistemic uncertainty in site response. <i>Earthquake Spectra</i> , 2021, 37, 921-936.	1.6	26
38	Extensions to the Groningen ground-motion model for seismic risk calculations: component-to-component variability and spatial correlation. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 4417-4439.	2.3	25
39	Hybrid broadband ground motion simulation validation of small magnitude earthquakes in Canterbury, New Zealand. <i>Earthquake Spectra</i> , 2020, 36, 673-699.	1.6	25
40	Interfrequency Correlations among Fourier Spectral Ordinates and Implications for Stochastic Ground-Motion Simulation. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 2774-2791.	1.1	23
41	Conditional Prediction of Absolute Durations. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 1588-1594.	1.1	22
42	Behaviour of rubberised concrete members in asymmetric shear tests. <i>Construction and Building Materials</i> , 2018, 159, 361-375.	3.2	22
43	A Study of the Sensitivity of Response Spectral Amplitudes on Seismological Parameters Using Algorithmic Differentiation. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 2240-2252.	1.1	19
44	Simulations for the development of a ground motion model for induced seismicity in the Groningen gas field, The Netherlands. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 4441-4456.	2.3	19
45	Selecting Ground-Motion Models for Site-Specific PSHA: Adaptability versus Applicability. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 2801-2815.	1.1	18
46	Empirical Correlation between Inelastic and Elastic Spectral Displacement Demands. <i>Earthquake Spectra</i> , 2016, 32, 1419-1448.	1.6	17
47	Continuous integration of data into ground-motion models using Bayesian updating. <i>Journal of Seismology</i> , 2019, 23, 39-57.	0.6	17
48	Seismic shear demands in multi-storey steel frames designed to Eurocode 8. <i>Engineering Structures</i> , 2013, 52, 69-87.	2.6	16
49	Prediction and optimisation of seismic drift demands incorporating ground motion frequency content. <i>Bulletin of Earthquake Engineering</i> , 2014, 12, 255-276.	2.3	16
50	Seismic hazard disaggregation in performance-based earthquake engineering: occurrence or exceedance?. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 835-842.	2.5	16
51	Source-Scaling Relationships for the Simulation of Rupture Geometry within Probabilistic Seismic-Hazard Analysis. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 1620-1635.	1.1	15
52	Developing a model for the prediction of ground motions due to earthquakes in the Groningen gas field. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2017, 96, s203-s213.	0.6	15
53	Extension of the Random-Effects Regression Algorithm to Account for the Effects of Nonlinear Site Response. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 3196-3202.	1.1	13
54	Ground-motion networks in the Groningen field: usability and consistency of surface recordings. <i>Journal of Seismology</i> , 2019, 23, 1233-1253.	0.6	12

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55	Inverse form-finding for tensegrity structures. <i>Computers and Structures</i> , 2019, 215, 27-42.	2.4	12
56	Earthquake Hazard Uncertainties Improved Using Precariously Balanced Rocks. <i>AGU Advances</i> , 2020, 1, e2020AV000182.	2.3	12
57	Observations from the Folkestone, U.K., Earthquake of 28 April 2007. <i>Seismological Research Letters</i> , 2008, 79, 672-687.	0.8	11
58	Structural behaviour and design criteria of under-deck cable-stayed bridges subjected to seismic action. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 891-912.	2.5	11
59	Host-region parameters for an adjustable model for crustal earthquakes to facilitate the implementation of the backbone approach to building ground-motion logic trees in probabilistic seismic hazard analysis. <i>Earthquake Spectra</i> , 2022, 38, 917-949.	1.6	10
60	Earthquake loss estimation for Greater Cairo and the national economic implications. <i>Bulletin of Earthquake Engineering</i> , 2013, 11, 1217-1257.	2.3	9
61	An evolutionary stochastic ground-motion model defined by a seismological scenario and local site conditions. <i>Soil Dynamics and Earthquake Engineering</i> , 2011, 31, 1465-1479.	1.9	8
62	Numerical assessment of reinforced concrete members incorporating recycled rubber materials. <i>Engineering Structures</i> , 2020, 204, 110017.	2.6	8
63	A proxy-based model for estimating V30 in the Iberian Peninsula. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 155, 107165.	1.9	8
64	Variability and Uncertainty in Empirical Ground-Motion Prediction for Probabilistic Hazard and Risk Analyses. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2015, , 97-128.	0.1	7
65	Theoretical Consistency of Common Record Selection Strategies in Performance-Based Earthquake Engineering. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2010, , 49-58.	0.1	7
66	Multivariate Statistical Appraisal of Regional Susceptibility to Induced Seismicity: Application to the Permian Basin, SW United States. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022768.	1.4	7
67	Estimating ground motion levels in earthquake damage investigations: a framework for forensic engineering seismology. <i>International Journal of Forensic Engineering</i> , 2012, 1, 3.	0.1	5
68	Impact of stochastic representations of pedestrian actions on serviceability response. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 2021, 174, 113-128.	0.3	5
69	A Seismologically Consistent Husid Envelope Function for the Stochastic Simulation of Earthquake Ground-Motions. <i>Computational Methods in Applied Sciences (Springer)</i> , 2011, , 229-246.	0.1	5
70	Seismic source identification and characterisation for probabilistic seismic hazard analyses conducted in the Buller-NW Nelson Region, South Island, New Zealand. <i>Journal of Seismology</i> , 2008, 12, 477-498.	0.6	4
71	Sensitivity of Probabilistic Seismic Hazard Obtained by Algorithmic Differentiation: A Feasibility Study. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 1810-1822.	1.1	4
72	Markov chain Monte Carlo ground-motion selection algorithms for conditional intensity measure targets. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 2468-2489.	2.5	4

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73	A Critique of b-Values Used for Computing Magnitude Scaling Factors. , 2018, , .		3
74	Attenuation of pedestrian-induced vibrations in girder footbridges using tuned-mass dampers. Advances in Bridge Engineering, 2020, 1, .	0.8	3
75	Risk Oriented Earthquake Hazard Assessment: Influence of Spatial Discretisation and Non-ergodic Ground-Motion Models. Springer Tracts in Civil Engineering, 2021, , 169-187.	0.3	2
76	Inelastic Behaviour of RC Members Incorporating High Deformability Concrete. , 2018, , 2399-2406.		2
77	Guidance for footbridge design: a new simplified method for the accurate evaluation of the structural response in serviceability conditions. Advances in Bridge Engineering, 2020, 1, .	0.8	2
78	Constraints on near-source saturation models for avoiding over-saturation of response spectral ordinates in RVT-based stochastic ground-motion simulations. Journal of Seismology, 2022, 26, 1-13.	0.6	2
79	A Numerical Study on the Structural Response of Steel Structures under Post-Blast Travelling Fires. , 2019, , .		1
80	Assessment of efficiency of intensity measures for performance-based travelling fire design. , 2017, , .		1
81	Comfort in Slender Bridges Subjected to Traffic Loading and Hammering Effects. , 2014, , .		0
82	Investigation of Systematic Ground Motion Effects through Ground Motion Simulation of Small-to-Moderate Magnitude Earthquakes. , 2018, , .		0
83	Chapter 2 Seismic Hazard And Earthquake Actions. , 2016, , 7-40.		0
84	Serviceability Response of a Benchmark Cable-Stayed Footbridge: Comparison of Available Methods' Prediction. , 2017, , .		0
85	Investigation of the Static and the Dynamic Behaviour of Stress-Ribbon Footbridges under Pedestrian Actions. , 0, , .		0