

George P Mavroeidis

List of Publications by Year in descending order

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33
papers

1,822
citations

471509

17
h-index

414414

32
g-index

35
all docs

35
docs citations

35
times ranked

882
citing authors

#	ARTICLE	IF	CITATIONS
1	A Mathematical Representation of Near-Fault Ground Motions. Bulletin of the Seismological Society of America, 2003, 93, 1099-1131.	2.3	704
2	Near-fault ground motions, and the response of elastic and inelastic single-degree-of-freedom(SDOF) systems. Earthquake Engineering and Structural Dynamics, 2004, 33, 1023-1049.	4.4	370
3	Kriging metamodeling in seismic risk assessment based on stochastic ground motion models. Earthquake Engineering and Structural Dynamics, 2015, 44, 2377-2399.	4.4	80
4	Near-Fault and Far-Field Strong Ground-Motion Simulation for Earthquake Engineering Applications Using the Specific Barrier Model. Journal of Structural Engineering, 2011, 137, 433-444.	3.4	74
5	Damping coefficients for near-fault ground motion response spectra. Soil Dynamics and Earthquake Engineering, 2011, 31, 401-417.	3.8	58
6	Behavior of a seismically isolated bridge crossing a fault rupture zone. Soil Dynamics and Earthquake Engineering, 2014, 57, 164-178.	3.8	53
7	Bridges crossing fault rupture zones: A review. Soil Dynamics and Earthquake Engineering, 2018, 113, 545-571.	3.8	52
8	Reliability-based assessment/design of floor isolation systems. Engineering Structures, 2014, 78, 41-56.	5.3	47
9	Effects of tectonic regime and soil conditions on the pulse period of near-fault ground motions. Soil Dynamics and Earthquake Engineering, 2016, 80, 102-118.	3.8	46
10	Effect of Fault Rupture Characteristics on Near-Fault Strong Ground Motions. Bulletin of the Seismological Society of America, 2010, 100, 37-58.	2.3	40
11	Accidental eccentricity in symmetric buildings due to wave passage effects arising from near-fault pulse-like ground motions. Earthquake Engineering and Structural Dynamics, 2017, 46, 2185-2207.	4.4	38
12	Effect of ground motion filtering on the dynamic response of a seismically isolated bridge with and without fault crossing considerations. Soil Dynamics and Earthquake Engineering, 2017, 92, 183-191.	3.8	36
13	Multi-objective risk-informed design of floor isolation systems. Earthquake Engineering and Structural Dynamics, 2016, 45, 1293-1313.	4.4	29
14	Effects of wave passage on torsional response of symmetric buildings subjected to near-fault pulse-like ground motions. Soil Dynamics and Earthquake Engineering, 2016, 88, 109-123.	3.8	22
15	Estimation of Strong Ground Motion from the Great 1964 Mw 9.2 Prince William Sound, Alaska, Earthquake. Bulletin of the Seismological Society of America, 2008, 98, 2303-2324.	2.3	19
16	Analysis of bridge structures crossing strike-slip fault rupture zones: A simple method for generating across-fault seismic ground motions. Earthquake Engineering and Structural Dynamics, 2020, 49, 1281-1307.	4.4	19
17	Seismic response study of ordinary and isolated bridges crossing strike-slip fault rupture zones. Earthquake Engineering and Structural Dynamics, 2021, 50, 2841-2862.	4.4	19
18	Tuning of stochastic ground motion models for compatibility with ground motion prediction equations. Earthquake Engineering and Structural Dynamics, 2016, 45, 893-912.	4.4	18

#	ARTICLE	IF	CITATIONS
19	Finite-Fault Simulation of Broadband Strong Ground Motion from the 2010 Mw 7.0 Haiti Earthquake. Bulletin of the Seismological Society of America, 2013, 103, 2557-2576.	2.3	16
20	Multiobjective Design of Supplemental Seismic Protective Devices Utilizing Lifecycle Performance Criteria. Journal of Structural Engineering, 2018, 144, .	3.4	15
21	Comparison of Observed and Synthetic Near-Fault Dynamic Ground Strains and Rotations from the 2004 Mw 6.0 Parkfield, California, Earthquake. Bulletin of the Seismological Society of America, 2018, 108, 1240-1256.	2.3	15
22	Revisiting the 1995 MW 6.4 Aigion, Greece, earthquake: Simulation of broadband strong ground motion and site response analysis. Soil Dynamics and Earthquake Engineering, 2018, 104, 156-173.	3.8	9
23	Empirical site classification of seismological stations in Chile using horizontal-to-vertical spectral ratios determined from recordings of large subduction-zone earthquakes. Soil Dynamics and Earthquake Engineering, 2019, 125, 105678.	3.8	9
24	Simulation of strong ground motion from the 1995 Mw 6.5 Kozani-Grevena, Greece, earthquake using a hybrid deterministic-stochastic approach. Soil Dynamics and Earthquake Engineering, 2019, 117, 357-373.	3.8	8
25	Simulation of broad-band strong ground motion for a hypothetical Mw 7.1 earthquake on the Enriquillo Fault in Haiti. Geophysical Journal International, 2017, 211, 400-417.	2.4	6
26	A Parametric Investigation of Near-Fault Ground Strains and Rotations Using Finite-Fault Simulations. Bulletin of the Seismological Society of America, 2019, 109, 1758-1784.	2.3	6
27	Authors' reply to discussion by G.D. Hatzigeorgiou and G.A. Papagiannopoulos of "Damping coefficients for near-fault ground motion response spectra"; Soil Dynamics and Earthquake Engineering 2011;31:401-417. Soil Dynamics and Earthquake Engineering, 2011, 31, 725-728.	3.8	2
28	Discussion on "Displacement damping modification factors for pulse-like and ordinary records" by F. Mollaioli, L. Liberatore, and A. Lucchini [Eng. Struct. 78 (2014) 17-27 doi: 10.1016/j.engstruct.2014.07.046]. Engineering Structures, 2015, 100, 249-252.	5.3	2
29	Efficient seismic fragility functions through sequential selection. Structural Safety, 2020, 87, 101977.	5.3	2
30	Simulation of near-fault ground strains and rotations from actual strike-slip earthquakes: case studies of the 2004 Mw 6.0 Parkfield, the 1979 Mw 6.5 Imperial Valley and the 1999 Mw 7.5 Izmit earthquakes. Geophysical Journal International, 2021, 226, 1920-1947.	2.4	2
31	Database Enabled Rapid Seismic Vulnerability Assessment of Bridges. Transportation Research Record, 2021, 2675, 1106-1120.	1.9	2
32	Validation of physics-based regional-scale ground-motion simulations of the 2008 Mw 7.9 Wenchuan earthquake for engineering applications. Earthquake Engineering and Structural Dynamics, 2022, 51, 2975-2999.	4.4	2
33	Seismic Actions Due to Near-Fault Ground Motion. , 2015, , 2519-2540.		0