

Domniki Asimaki

List of Publications by Year in descending order

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81
papers

1,912
citations

186265
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92
times ranked

1427
citing authors

#	ARTICLE	IF	CITATIONS
1	SOIL AND TOPOGRAPHIC AMPLIFICATION ON CANYON BANKS AND THE 1999 ATHENS EARTHQUAKE. Journal of Earthquake Engineering, 2004, 8, 1-43.	2.5	153
2	Effects of Local Soil Conditions on the Topographic Aggravation of Seismic Motion: Parametric Investigation and Recorded Field Evidence from the 1999 Athens Earthquake. Bulletin of the Seismological Society of America, 2005, 95, 1059-1089.	2.3	135
3	Seismic Simulation of Inelastic Soils via Frequency-Dependent Moduli and Damping. Journal of Engineering Mechanics - ASCE, 2002, 128, 34-47.	2.9	96
4	International Benchmark on Numerical Simulations for 1D, Nonlinear Site Response (PRENOLIN): Verification Phase Based on Canonical Cases. Bulletin of the Seismological Society of America, 2016, 106, 2112-2135.	2.3	91
5	A simplified model for lateral response of large diameter caisson foundationsâ€™Linear elastic formulation. Soil Dynamics and Earthquake Engineering, 2009, 29, 268-291.	3.8	83
6	Ground-Motion Observations at Hotel Montana during the M 7.0 2010 Haiti Earthquake: Topography or Soil Amplification?. Bulletin of the Seismological Society of America, 2013, 103, 2577-2590.	2.3	73
7	Model for Dynamic Shear Modulus and Damping for Granular Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2000, 126, 859-869.	3.0	68
8	Site Amplification and Attenuation via Downhole Array Seismogram Inversion: A Comparative Study of the 2003 Miyagi-Okai Aftershock Sequence. Bulletin of the Seismological Society of America, 2008, 98, 301-330.	2.3	65
9	An equivalent linear algorithm with frequency- and pressure-dependent moduli and damping for the seismic analysis of deep sites. Soil Dynamics and Earthquake Engineering, 2002, 22, 959-965.	3.8	56
10	Soil-Dependent Topographic Effects: A Case Study from the 1999 Athens Earthquake. Earthquake Spectra, 2005, 21, 929-966.	3.1	55
11	Geotechnical Effects of the 2015 Magnitude 7.8 Gorkha, Nepal, Earthquake and Aftershocks. Seismological Research Letters, 2015, 86, 1514-1523.	1.9	55
12	Site- and Motion-Dependent Parametric Uncertainty of Site-Response Analyses in Earthquake Simulations. Bulletin of the Seismological Society of America, 2010, 100, 954-968.	2.3	54
13	Wave propagation and soilâ€™structure interaction on a cliff crest during the 1999 Athens Earthquake. Soil Dynamics and Earthquake Engineering, 2005, 25, 513-527.	3.8	47
14	Temporal Changes in Site Response Associated with the Strong Ground Motion of the 2004 Mw 6.6 Mid-Niigata Earthquake Sequences in Japan. Bulletin of the Seismological Society of America, 2009, 99, 3487-3495.	2.3	43
15	Site effects in Mexico City basin: Past and present. Soil Dynamics and Earthquake Engineering, 2019, 121, 369-382.	3.8	42
16	Attenuation and Velocity Structure for Site Response Analyses via Downhole Seismogram Inversion. Pure and Applied Geophysics, 2006, 163, 81-118.	1.9	41
17	Sustainable development and energy geotechnology â€™ Potential roles for geotechnical engineering. KSCE Journal of Civil Engineering, 2011, 15, 611-621.	1.9	41
18	Quantifying Nonlinearity Susceptibility via Site-Response Modeling Uncertainty at Three Sites in the Los Angeles Basin. Bulletin of the Seismological Society of America, 2008, 98, 2364-2390.	2.3	40

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19	EFFECTS OF SPATIAL VARIABILITY OF SOIL PROPERTIES ON SURFACE GROUND MOTION. <i>Journal of Earthquake Engineering</i> , 2003, 7, 1-44.	2.5	39
20	From Stiffness to Strength: Formulation and Validation of a Hybrid Hyperbolic Nonlinear Soil Model for Site-Response Analyses. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 1336-1355.	2.3	39
21	On the complexity of seismic waves trapped in irregular topographies. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 114, 424-437.	3.8	38
22	Characterizing the Kathmandu Valley sediment response through strong motion recordings of the 2015 Gorkha earthquake sequence. <i>Tectonophysics</i> , 2017, 714-715, 146-157.	2.2	37
23	Site-Response Estimation for the 2003 Miyagi-Oki Earthquake Sequence Considering Nonlinear Site Response. <i>Bulletin of the Seismological Society of America</i> , 2006, 96, 1474-1482.	2.3	35
24	Modified Topographic Amplification Factors for a Single-Faced Slope due to Kinematic Soil-Structure Interaction. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2007, 133, 1414-1431.	3.0	34
25	Seismic response of bridge pier on rigid caisson foundation in soil stratum. <i>Earthquake Engineering and Engineering Vibration</i> , 2008, 7, 33-43.	2.3	33
26	Bias assessment in Incremental Dynamic Analysis due to record scaling. <i>Soil Dynamics and Earthquake Engineering</i> , 2014, 67, 158-168.	3.8	33
27	Site Effects and Damage Patterns. <i>Earthquake Spectra</i> , 2012, 28, 55-74.	3.1	30
28	Site- and ground motion-dependent nonlinear effects in seismological model predictions. <i>Soil Dynamics and Earthquake Engineering</i> , 2012, 32, 143-151.	3.8	29
29	Observations and Simulations of Basin Effects in the Kathmandu Valley during the 2015 Gorkha, Nepal, Earthquake Sequence. <i>Earthquake Spectra</i> , 2017, 33, 35-53.	3.1	27
30	Inverse analysis of weak and strong motion downhole array data from the Mw7.0 Sanriku-Minami earthquake. <i>Soil Dynamics and Earthquake Engineering</i> , 2007, 27, 73-92.	3.8	24
31	A Wavelet-based Seismogram Inversion Algorithm for the In Situ Characterization of Nonlinear Soil Behavior. <i>Pure and Applied Geophysics</i> , 2011, 168, 1669-1691.	1.9	24
32	Soil-pile-structure interaction simulations in liquefiable soils via dynamic macroelements: Formulation and validation. <i>Soil Dynamics and Earthquake Engineering</i> , 2013, 47, 92-107.	3.8	23
33	Effects of Ground Failure on Buildings, Ports, and Industrial Facilities. <i>Earthquake Spectra</i> , 2012, 28, 97-118.	3.1	20
34	How topography-dependent are topographic effects? Complementary numerical modeling of centrifuge experiments. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 116, 654-667.	3.8	15
35	A generalized hysteresis model for biaxial response of pile foundations in sands. <i>Soil Dynamics and Earthquake Engineering</i> , 2012, 32, 56-70.	3.8	13
36	Investigating the spatial variability of ground motions during the 2017 Mw 7.1 Puebla-Mexico City earthquake via idealized simulations of basin effects. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 132, 106073.	3.8	13

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37	A Generic Velocity Profile for Basin Sediments in California Conditioned on VS30. <i>Seismological Research Letters</i> , 2018, 89, 1397-1409.	1.9	12
38	The SAFER geodatabase for the Kathmandu Valley: Geotechnical and geological variability. <i>Earthquake Spectra</i> , 2020, 36, 1549-1569.	3.1	12
39	Parametric estimation of dispersive viscoelastic layered media with application to structural health monitoring. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 105, 204-223.	3.8	11
40	Data-Driven Synthesis of Broadband Earthquake Ground Motions Using Artificial Intelligence. <i>Bulletin of the Seismological Society of America</i> , 2022, 112, 1979-1996.	2.3	11
41	A systematic analysis of basin effects on surface ground motion. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 141, 106490.	3.8	10
42	Three-dimensional nonlinear soil-structure interaction for Rayleigh wave incidence in layered soils. <i>Earthquake Engineering and Structural Dynamics</i> , 2022, 51, 2752-2770.	4.4	10
43	Time-domain forward and inverse modeling of lossy soils with frequency-independent Q for near-surface applications. <i>Soil Dynamics and Earthquake Engineering</i> , 2012, 43, 139-159.	3.8	9
44	Site Characterization at Downhole Arrays by Joint Inversion of Dispersion Data and Acceleration Time Series. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 1323-1337.	2.3	9
45	Seismic harmonic response of inhomogeneous soil: scaling analysis. <i>Geotechnique</i> , 2021, 71, 392-405.	4.0	7
46	Basin Effects in Strong Ground Motion: A Case Study from the 2015 Gorkha, Nepal, Earthquake. , 2018, , .		6
47	On the fundamental resonant mode of inhomogeneous soil deposits. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 135, 106190.	3.8	6
48	Deterministic ground motion simulations with shallow crust nonlinearity at Garner Valley in Southern California. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 43-59.	4.4	6
49	Site Effects in Structural Response Predictions of Inelastic SDOF Oscillators. <i>Earthquake Spectra</i> , 2012, 28, 859-883.	3.1	5
50	Topographic proxies from 2-D numerical analyses. <i>Bulletin of Earthquake Engineering</i> , 2016, 14, 2959-2975.	4.1	5
51	Exact seismic response of smooth rigid retaining walls resting on stiff soil. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020, 44, 1750-1769.	3.3	5
52	Smooth Nonlinear Hysteresis Model for Coupled Biaxial Soil-Pipe Interaction in Sandy Soils. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, .	3.0	5
53	Title is missing!. <i>Journal of Earthquake Engineering</i> , 2004, 8, 1.	2.5	4
54	Integrating Soil-Structure Interaction Analyses of Pile-Supported Wharfs in Seismic Risk Management of Port Systems. , 2008, , .		4

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55	A Nonlinear Model Inversion to Estimate Dynamic Soil Stiffness of Building Structures. , 2018, , .		4
56	Simulating soil stiffness degradation in transient site response predictions. Soil Dynamics and Earthquake Engineering, 2010, 30, 299-309.	3.8	3
57	Bayesian Estimation of Nonlinear Soil Model Parameters Using Centrifuge Experimental Data. , 2018, , .		3
58	A Modified Uniaxial Bouc-Wen Model for the Simulation of Transverse Lateral Pipe-Cohesionless Soil Interaction. , 2018, , .		3
59	<i>P</i> - and <i>S</i> -wave velocity estimation by ensemble Kalman inversion of dispersion data for strong motion stations in California. Geophysical Journal International, 2022, 231, 536-551.	2.4	3
60	On the Applicability of Shear Strain Index as a Proxy for Site Response Nonlinearity. , 2018, , .		2
61	Linear one-dimensional site response analysis in the presence of stiffness-less free surface for certain power-law heterogeneities. Soil Dynamics and Earthquake Engineering, 2021, 141, 106530.	3.8	2
62	Optimization of frequency domain impedances for time-domain response analyses of building structures with rigid shallow foundations. Earthquake Spectra, 2021, 37, 1955-1979.	3.1	2
63	Toppling of a Trona Pinnacles Spire following the Mw 5.5 Ridgecrest Aftershock of June 2020. Seismological Research Letters, 2022, 93, 1768-1776.	1.9	2
64	Title is missing!. Journal of Earthquake Engineering, 2003, 7, 1.	2.5	1
65	Spatial Variability of Soil Properties in Forward and Inverse Site Response Analyses. , 2006, , 1.		1
66	Modeling Nonlinear Site Response Uncertainty in the Los Angeles Basin. , 2008, , .		1
67	Topography Effects Are Not Dominated by Ground Surface Geometry: A Site Effects Paradox. , 2017, , .		1
68	Inverse Analysis of Weak and Strong Motion Downhole Array Data. , 2007, , 271-315.		1
69	Predicting V_p and constrained modulus reduction curve based on V_s and shear modulus reduction curve in accordance with poroelastic theory. Geotechnique, 0, , 1-39.	4.0	1
70	Application of ray methods to one-dimensional site response of inhomogeneous soil deposits. Geotechnique, 0, , 1-28.	4.0	1
71	A Hybrid Optimization Algorithm for Downhole Seismogram Inversion: Theory and Applications. , 2006, , 1.		0
72	A Simplified Model for the Linear Elastic Analysis of Laterally Loaded Caissons. , 2008, , .		0

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73	A Quasi-Static Displacement-Based Approximation of Seismic Earth Pressures on Rigid Walls. , 2018, , .		0
74	Investigating the Applicability of Integrated Hydrological Modeling for Mapping Regional Liquefaction Hazard. , 2018, , .		0
75	Mexico City Basin Effects: Past, Present, and Future. , 2019, , .		0
76	Applications of the J-integral to dynamical problems in geotechnical engineering. Journal of the Mechanics and Physics of Solids, 2021, 150, 104353.	4.8	0
77	Site effects and soil-structure interaction in the 1999, Athens earthquake. , 2004, , 457-466.		0
78	System identification of layered profiles through downhole array seismogram inversion. , 2006, , .		0
79	Site Effects in Ground Motion Synthetics for Structural Performance Predictions. Computational Methods in Applied Sciences (Springer), 2011, , 67-97.	0.3	0
80	Parametric Estimation of Wave Dispersion for System Identification of Building Structures. Lecture Notes in Civil Engineering, 2018, , 791-802.	0.4	0
81	Regional-Scale Geohazards Evaluation for Risk Assessment of Natural Gas Storage and Transmission Infrastructure. , 2021, , .		0