

Roberto Paolucci

List of Publications by Year in descending order

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59
papers

2,165
citations

236925

25
h-index

243625

44
g-index

60
all docs

60
docs citations

60
times ranked

1566
citing authors

#	ARTICLE	IF	CITATIONS
1	Amplification of earthquake ground motion by steep topographic irregularities. Earthquake Engineering and Structural Dynamics, 2002, 31, 1831-1853.	4.4	176
2	Ground Motion Record Selection Based on Broadband Spectral Compatibility. Earthquake Spectra, 2014, 30, 1427-1448.	3.1	136
3	Displacement Spectra for Long Periods. Earthquake Spectra, 2004, 20, 347-376.	3.1	128
4	Seismic behaviour of shallow foundations: Shaking table experiments vs numerical modelling. Earthquake Engineering and Structural Dynamics, 2008, 37, 577-595.	4.4	121
5	Overview of the Italian strong motion database ITACA 1.0. Bulletin of Earthquake Engineering, 2011, 9, 1723-1739.	4.1	115
6	Seismic Bearing Capacity of Shallow Strip Foundations on Dry Soils. Soils and Foundations, 1997, 37, 95-105.	3.1	105
7	3D Response analysis of an instrumented hill at Matsuzaki, Japan, by a spectral method. Journal of Seismology, 1999, 3, 191-209.	1.3	71
8	Recorded Motions of the 6 April 2009 M_w 6.3 L'Aquila, Italy, Earthquake and Implications for Building Structural Damage: Overview. Earthquake Spectra, 2010, 26, 651-684.	3.1	71
9	Seismic analysis of deep tunnels in near fault conditions: a case study in Southern Italy. Bulletin of Earthquake Engineering, 2011, 9, 975-995.	4.1	71
10	Large-Scale Experiments on Nonlinear Behavior of Shallow Foundations Subjected to Strong Earthquakes. Soils and Foundations, 2008, 48, 673-692.	3.1	66
11	Broadband Ground Motions from 3D Physics-Based Numerical Simulations Using Artificial Neural Networks. Bulletin of the Seismological Society of America, 2018, 108, 1272-1286.	2.3	57
12	Comparison of 3D, 2D and 1D numerical approaches to predict long period earthquake ground motion in the Gubbio plain, Central Italy. Bulletin of Earthquake Engineering, 2011, 9, 2007-2029.	4.1	54
13	Italian strong motion records in ITACA: overview and record processing. Bulletin of Earthquake Engineering, 2011, 9, 1741-1759.	4.1	52
14	The role of non-linear dynamic soil-foundation interaction on the seismic response of structures. Bulletin of Earthquake Engineering, 2014, 12, 1157-1176.	4.1	48
15	Shear Resonance Frequencies of Alluvial Valleys by Rayleigh's Method. Earthquake Spectra, 1999, 15, 503-521.	3.1	46
16	Engineering ground motion record selection in the Italian Accelerometric Archive. Bulletin of Earthquake Engineering, 2011, 9, 1761-1778.	4.1	43
17	On the reliability of long-period response spectral ordinates from digital accelerograms. Earthquake Engineering and Structural Dynamics, 2008, 37, 697-710.	4.4	37
18	Checking the site categorization criteria and amplification factors of the 2021 draft of Eurocode 8 Part 1-1. Bulletin of Earthquake Engineering, 2021, 19, 4199-4234.	4.1	37

#	ARTICLE	IF	CITATIONS
19	Modelling basin effects on earthquake ground motion in the Santiago de Chile basin by a spectral element code. <i>Geophysical Journal International</i> , 2011, 187, 929-945.	2.4	36
20	Evaluation of Probabilistic Site-Specific Seismic Hazard Methods and Associated Uncertainties, with Applications in the Po Plain, Northern Italy. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 2787-2807.	2.3	35
21	Physics-based seismic input for engineering applications: a case study in the Aterno river valley, Central Italy. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 2645-2671.	4.1	35
22	Earthquake-induced Transient Ground Strains from Dense Seismic Networks. <i>Earthquake Spectra</i> , 2008, 24, 453-470.	3.1	33
23	Introducing Dynamic Nonlinear Soil-Foundation-Structure Interaction Effects in Displacement-Based Seismic Design. <i>Earthquake Spectra</i> , 2013, 29, 475-496.	3.1	33
24	Earthquake fault rupture shallow foundation interaction in undrained soils: a simplified analytical approach. <i>Earthquake Engineering and Structural Dynamics</i> , 2007, 36, 101-118.	4.4	29
25	3D Physics-Based Numerical Simulations of Ground Motion in Istanbul from Earthquakes along the Marmara Segment of the North Anatolian Fault. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 2559-2576.	2.3	29
26	Selection and spectral matching of recorded ground motions for seismic fragility analyses. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 4961-4987.	4.1	29
27	Physics-based probabilistic seismic hazard and loss assessment in large urban areas: A simplified application to Istanbul. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 99-115.	4.4	27
28	The 3D numerical simulation of near-source ground motion during the Marsica earthquake, central Italy, 100 years later. <i>Soil Dynamics and Earthquake Engineering</i> , 2016, 91, 39-52.	3.8	26
29	BB-SPEEDset: A Validated Dataset of Broadband Near-Source Earthquake Ground Motions from 3D Physics-Based Numerical Simulations. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2527-2545.	2.3	26
30	Simplified modelling of continuous buried pipelines subject to earthquake fault rupture. <i>Earthquake and Structures</i> , 2010, 1, 253-267.	1.0	23
31	Comparative Study of the Seismic Hazard Assessments in European National Seismic Codes. <i>Bulletin of Earthquake Engineering</i> , 2004, 2, 51-73.	4.1	22
32	Numerical modeling of seismic waves by discontinuous spectral element methods. <i>ESAIM Proceedings and Surveys</i> , 2018, 61, 1-37.	0.4	22
33	Seismic Risk Assessment of Underground Structures under Transient Ground Deformations. , 2007, , 433-459.		19
34	Soil inertia effects on the bearing capacity of rectangular foundations on cohesive soils. <i>Engineering Structures</i> , 1997, 19, 637-643.	5.3	18
35	Fling Effects from Near-Source Strong-Motion Records: Insights from the 2016 Mw 6.5 Norcia, Central Italy, Earthquake. <i>Seismological Research Letters</i> , 2019, 90, 659-671.	1.9	18
36	Assessment of Seismic Site Effects in 2-D Alluvial Valleys Using Neural Networks. <i>Earthquake Spectra</i> , 2000, 16, 661-680.	3.1	17

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37	Numerical study on basin-edge effects in the seismic response of the Gubbio valley, Central Italy. Bulletin of Earthquake Engineering, 2016, 14, 1437-1459.	4.1	17
38	Numerical evaluation of the effect of cross-coupling of different components of ground motion in site response analyses. Bulletin of the Seismological Society of America, 1999, 89, 877-887.	2.3	17
39	Direct displacement-based assessment with nonlinear soil-structure interaction for multi-span reinforced concrete bridges. Structure and Infrastructure Engineering, 2014, 10, 1211-1227.	3.7	16
40	Numerical modeling of the interaction of pressurized large diameter gas buried pipelines with normal fault ruptures. Soil Dynamics and Earthquake Engineering, 2017, 101, 105-115.	3.8	16
41	Ground Motion Induced by Train Passage. Journal of Engineering Mechanics - ASCE, 2006, 132, 201-210.	2.9	15
42	Earthquake ground motion modeling of induced seismicity in the Groningen gas field. Earthquake Engineering and Structural Dynamics, 2021, 50, 135-154.	4.4	15
43	Experimental and Numerical Results on Earthquake-Induced Rotational Ground Motions. Journal of Earthquake Engineering, 2009, 13, 66-82.	2.5	14
44	Database of rocking shallow foundation performance: Slow-cyclic and monotonic loading. Earthquake Spectra, 2020, 36, 1585-1606.	3.1	14
45	Three-dimensional physics-based earthquake ground motion simulations for seismic risk assessment in densely populated urban areas. Mathematics in Engineering, 2020, 3, 1-31.	0.9	13
46	Identification of accelerometric stations in ITACA with distinctive features in their seismic response. Bulletin of Earthquake Engineering, 2011, 9, 1921-1939.	4.1	12
47	Simplified vibratory characterization of alluvial basins. Comptes Rendus - Geoscience, 2003, 335, 365-370.	1.2	11
48	Earthquake induced ground strains in the presence of strong lateral soil heterogeneities. Bulletin of Earthquake Engineering, 2010, 8, 1527-1546.	4.1	11
49	Identification of the nonlinear seismic response of buildings by a combined Stockwell Transform and deconvolution interferometry approach. Bulletin of Earthquake Engineering, 2018, 16, 3103-3126.	4.1	11
50	Joint deconvolution of building and downhole seismic recordings: an application to three test cases. Bulletin of Earthquake Engineering, 2018, 16, 613-641.	4.1	11
51	Empirical evaluation of peak ground velocity and displacement as a function of elastic spectral ordinates for design. Earthquake Engineering and Structural Dynamics, 2018, 47, 245-255.	4.4	11
52	3D Physics-Based Numerical Simulations: Advantages and Current Limitations of a New Frontier to Earthquake Ground Motion Prediction. The Istanbul Case Study. Geotechnical, Geological and Earthquake Engineering, 2018, , 203-223.	0.2	10
53	Title is missing!. Journal of Seismology, 2002, 6, 307-327.	1.3	6
54	Site Effects at Long Periods from Digital Strong Motion Records of the KiK-net, Japan. Journal of Earthquake Engineering, 2009, 13, 567-584.	2.5	5

#	ARTICLE	IF	CITATIONS
55	Near-source effects and non-linear site response at Kashiwazaki-Kariwa Nuclear Power Plant, in the 2007 Chuetsu-Oki earthquake: evidence from surface and downhole records and 1D numerical simulations. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 1105-1135.	4.1	5
56	Comment on "Broadband Ground Motion Simulation of the 2011 Mw 6.2 Christchurch, New Zealand, Earthquake" by H. N. T. Razafindrakoto, B. A. Bradley, and R. W. Graves. <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 2138-2138.	2.3	3
57	The older the better? The strange case of empirical ground motion models in the near-source of moderate-to-large magnitude earthquakes. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 1325-1342.	4.1	1
58	Near-fault earthquake ground motion prediction by a high-performance spectral element numerical code. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
59	Foreword to the special issue on the ITACA strong motion database. <i>Bulletin of Earthquake Engineering</i> , 2011, 9, 1717-1721.	4.1	0