Jorge Ruiz-GarcÃ-a

List of Publications by Year
in descending order

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48 papers	2,140 citations	279798 23 h-index	243625 44 g-index
48 all docs	48 docs citations	48 times ranked	975 citing authors

#	Article	IF	Citations
1	Inelastic displacement ratios for evaluation of existing structures. Earthquake Engineering and Structural Dynamics, 2003, 32, 1237-1258.	4.4	214
2	Evaluation of drift demands in existing steel frames under as-recorded far-field and near-fault mainshockâ€“aftershock seismic sequences. Engineering Structures, 2011, 33, 621-634.	5.3	206
3	Evaluation of approximate methods to estimate maximum inelastic displacement demands. Earthquake Engineering and Structural Dynamics, 2002, 31, 539-560.	4.4	203
4	Residual displacement ratios for assessment of existing structures. Earthquake Engineering and Structural Dynamics, 2006, 35, 315-336.	4.4	158
5	Mainshock-Aftershock Ground Motion Features and Their Influence in Building's Seismic Response. Journal of Earthquake Engineering, 2012, 16, 719-737.	2.5	118
6	Evaluation of residual drift demands in regular multi-storey frames for performance-based seismic assessment. Earthquake Engineering and Structural Dynamics, 2006, 35, 1609-1629.	4.4	106
7	Inelastic displacement ratios for evaluation of structures built on soft soil sites. Earthquake Engineering and Structural Dynamics, 2006, 35, 679-694.	4.4	98
8	Aftershock seismic assessment taking into account postmainshock residual drifts. Earthquake Engineering and Structural Dynamics, 2015, 44, 1391-1407.	4.4	88
9	Probabilistic estimation of residual drift demands for seismic assessment of multi-story framed buildings. Engineering Structures, 2010, 32, 11-20.	5.3	86
10	Inelastic Displacement Ratios for Seismic Assessment of Structures Subjected to Forward-Directivity Near-Fault Ground Motions. Journal of Earthquake Engineering, 2011, 15, 449-468.	2.5	84
11	Inelastic Displacement Ratios for Design of Structures on Soft Soils Sites. Journal of Structural Engineering, 2004, 130, 2051-2061.	3.4	80
12	Influence of stiffness degradation on strength demands of structures built on soft soil sites. Engineering Structures, 2002, 24, 1271-1281.	5.3	78
13	Probabilistic estimation of maximum inelastic displacement demands for performance-based design. Earthquake Engineering and Structural Dynamics, 2007, 36, 1235-1254.	4.4	59
14	Residual drift demands in momentâ€resisting steel frames subjected to narrowâ€band earthquake ground motions. Earthquake Engineering and Structural Dynamics, 2013, 42, 1583-1598.	4.4	52
15	Drift-based fragility assessment of confined masonry walls in seismic zones. Engineering Structures, 2009, 31, 170-181.	5.3	51
16	Effect of seismic sequences in reinforced concrete frame buildings located in soft-soil sites. Soil Dynamics and Earthquake Engineering, 2014, 63, 56-68.	3.8	45
17	Residual displacement demands of conventional and dual oscillators subjected to earthquake ground motions characteristic of the soft soils of Mexico City. Soil Dynamics and Earthquake Engineering, 2017, 98, 206-221.	3.8	36
18	On the influence of strong-ground motion duration on residual displacement demands. Earthquake and Structures, 2010, 1, 327-344.	1.0	36

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19	Evaluation of approximate methods to estimate residual drift demands in steel framed buildings. Earthquake Engineering and Structural Dynamics, 2015, 44, 2837-2854.	4.4	35
20	Nonlinear response analysis of SDOF systems subjected to doublet earthquake ground motions: A case study on 2012 Varzaghanâ€“Ahar events. Engineering Structures, 2016, 110, 281-292.	5.3	31
21	Overview of collapsed buildings in Mexico City after the 19 September 2017 (M_w7.1) earthquake. Earthquake Spectra, 2020, 36, 83-109.	3.1	27
22	Influence of modeling assumptions and aftershock hazard level in the seismic response of post-mainshock steel framed buildings. Engineering Structures, 2017, 140, 437-446.	5.3	26
23	Three-dimensional response of steel moment-resisting buildings under seismic sequences. Engineering Structures, 2018, 175, 399-414.	5.3	24
24	Estimation of residual displacement ratios for simple structures built on soft-soil sites. Soil Dynamics and Earthquake Engineering, 2017, 100, 555-558.	3.8	22
25	Comparative seismic performance of steel frames retrofitted with buckling-restrained braces through the application of Force-Based and Displacement-Based approaches. Soil Dynamics and Earthquake Engineering, 2011, 31, 478-490.	3.8	20
26	Implementation of Displacement Coefficient method for seismic assessment of buildings built on soft soil sites. Engineering Structures, 2014, 59, 1-12.	5.3	19
27	Response to seismic sequences of short-period structures equipped with Buckling-Restrained Braces located on the lakebed zone of Mexico City. Journal of Constructional Steel Research, 2017, 137, 37-51.	3.9	17
28	Seismic behavior of steel eccentrically braced frames under soft-soil seismic sequences. Soil Dynamics and Earthquake Engineering, 2018, 115, 119-128.	3.8	14
29	Improving the Structural Reliability of Steel Frames Using Posttensioned Connections. Advances in Civil Engineering, 2019, 2019, 1-10.	0.7	13
30	Prediction of residual displacement ratios for simple structures built on soft-soil sites of Mexico City. Soil Dynamics and Earthquake Engineering, 2019, 126, 105809.	3.8	10
31	Response of structures to seismic sequences corresponding to Mexican soft soils. Earthquake and Structures, 2014, 7, 1241-1258.	1.0	9
32	Examination of the vertical earthquake ground motion component during the September 19, 2017 (Mw) Tj ETQq0 0 0 rgBT /Overlock 10	3.8	8
33	Observations of Rayleigh waves in Mexico City Valley during the 19 September 2017 Pueblaâ€“Morelos, Mexico earthquake. Earthquake Spectra, 2020, 36, 62-82.	3.1	8
34	Flexible Frames as Self-Centering Mechanism for Buildings Having Buckling-Restrained Braces. Journal of Earthquake Engineering, 2015, 19, 978-990.	2.5	7
35	Evaluation of the Coefficient Method for estimation of maximum roof displacement demand of existing buildings subjected to near-fault ground motions. Soil Dynamics and Earthquake Engineering, 2019, 121, 276-280.	3.8	7
36	Seismic assessment of school buildings with short captive RC columns under subduction seismic sequences. Structures, 2021, 34, 2432-2444.	3.6	7

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37	Discussion on â€œEffects of multiple earthquakes on inelastic structural responseâ€• Engineering Structures, 2014, 58, 110-111.	5.3	6
38	Assessment of permanent drift demands in steel moment-resisting steel buildings due to recorded near-fault forward directivity earthquake ground motions and velocity pulse models. Structures, 2020, 27, 1260-1273.	3.6	6
39	Seismic performance assessment of weak first-storey RC buildings designed with old and new seismic provisions for Mexico City. Engineering Structures, 2021, 232, 111803.	5.3	6
40	A Simplified Drift-Based Assessment Procedure for Regular Confined Masonry Buildings in Seismic Regions. Journal of Earthquake Engineering, 2009, 13, 520-539.	2.5	5
41	Evaluation of seismic displacement demands from the September 19, 2017 Pueblaâ€Morelos (Mw = 7.1) earthquake in Mexico City. Earthquake Engineering and Structural Dynamics, 2018, 47, 2726-2732.	4.4	5
42	Evaluation of approximate methods for estimating maximum displacement response of MDOF systems. Soil Dynamics and Earthquake Engineering, 2017, 101, 125-136.	3.8	3
43	New vertical-to-horizontal ratio spectrum due to intraslab earthquakes for soft-soil sites of Mexico City. Soil Dynamics and Earthquake Engineering, 2019, 126, 105804.	3.8	3
44	Evaluation of Coefficient Method for Seismic Assessment of Existing Buildings Built on Soft Soil Sites. , 2009, , .		2
45	Discussion on â€œResidual displacement ratios of SDOF systems subjected to ground motions recorded on soft soil sitesâ€•by Ji D, Wen W, Zhai C, Katsanos EI [Soil Dyn Earthq Eng 115 (2018) 331â€“335]. Soil Dynamics and Earthquake Engineering, 2019, 120, 449-450.	3.8	1
46	Collapse strength ratios for weak first-story buildings under soft soil intraslab earthquakes. Soil Dynamics and Earthquake Engineering, 2021, 151, 107004.	3.8	1
47	Seismic resilience assessment of low- and medium-rise existing eccentrically braced steel frames in Mexico City. Bulletin of Earthquake Engineering, 2022, 20, 1567-1590.	4.1	0
48	Discussion of Post-earthquake fast damage assessment using residual displacement and seismic energy: Application to Mexico City. Earthquake Spectra, 0, , 875529302110688.	3.1	0