

Luigi Disarno

List of Publications by Year in descending order

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117
papers

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1863
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#	ARTICLE	IF	CITATIONS
1	Bracing systems for seismic retrofitting of steel frames. <i>Journal of Constructional Steel Research</i> , 2009, 65, 452-465.	3.9	113
2	Seismic retrofitting with buckling restrained braces: Application to an existing non-ductile RC framed building. <i>Soil Dynamics and Earthquake Engineering</i> , 2010, 30, 1279-1297.	3.8	113
3	Experimental tests on full-scale RC unretrofitted frame and retrofitted with buckling-restrained braces. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 315-333.	4.4	99
4	Effects of multiple earthquakes on inelastic structural response. <i>Engineering Structures</i> , 2013, 56, 673-681.	5.3	86
5	Integrated seismic risk and resilience assessment of roadway networks in earthquake prone areas. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 181-210.	4.1	86
6	Experimental assessment of the seismic performance of hospital cabinets using shake table testing. <i>Earthquake Engineering and Structural Dynamics</i> , 2019, 48, 103-123.	4.4	83
7	Local Site Effects and Incremental Damage of Buildings during the 2016 Central Italy Earthquake Sequence. <i>Earthquake Spectra</i> , 2018, 34, 1639-1669.	3.1	78
8	Innovations in earthquake risk reduction for resilience: Recent advances and challenges. <i>International Journal of Disaster Risk Reduction</i> , 2021, 60, 102267.	3.9	72
9	Assessment of RC columns subjected to horizontal and vertical ground motions recorded during the 2009 L'Aquila (Italy) earthquake. <i>Engineering Structures</i> , 2011, 33, 1514-1535.	5.3	67
10	Soil-pile-structure interaction: experimental outcomes from shaking table tests. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 1041-1061.	4.4	64
11	Shake table tests for the seismic fragility evaluation of hospital rooms. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 23-40.	4.4	61
12	Innovative strategies for seismic retrofitting of steel and composite structures. <i>Structural Control and Health Monitoring</i> , 2005, 7, 115-135.	0.7	60
13	Numerical modelling and fragility assessment of typical freestanding building contents. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 1609-1633.	4.1	53
14	A critical review on the vulnerability assessment of natural gas pipelines subjected to seismic wave propagation. Part 1: Fragility relations and implemented seismic intensity measures. <i>Tunnelling and Underground Space Technology</i> , 2019, 86, 279-296.	6.2	45
15	Hybrid simulation of a multi-span RC viaduct with plain bars and sliding bearings. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 2221-2240.	4.4	44
16	Residual displacement ratios of structures under mainshock-aftershock sequences. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 121, 179-193.	3.8	43
17	Multi-angle, multi-damage fragility curves for seismic assessment of bridges. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 2281-2301.	4.4	42
18	Seismic vulnerability of offshore wind turbines to pulse and non-pulse records. <i>Earthquake Engineering and Structural Dynamics</i> , 2020, 49, 24-50.	4.4	42

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19	A time-domain seismic SSI analysis method for inelastic bridge structures through the use of a frequency-dependent lumped parameter model. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 2137-2156.	4.4	39
20	Field evidence and numerical investigation of the $M_w = 7.1$ October 23 Van, Tabanli and the $M_w > 5.7$ November earthquakes of 2011. <i>Bulletin of Earthquake Engineering</i> , 2013, 11, 313-346.	4.1	38
21	Seismic retrofitting of framed structures with stainless steel. <i>Journal of Constructional Steel Research</i> , 2006, 62, 93-104.	3.9	37
22	Seismic response analysis of an irregular base isolated building. <i>Bulletin of Earthquake Engineering</i> , 2011, 9, 1673-1702.	4.1	36
23	Reconnaissance of 2016 Central Italy Earthquake Sequence. <i>Earthquake Spectra</i> , 2018, 34, 1547-1555.	3.1	36
24	Large-scale experimental investigation of a low-cost PVC "sand-wich" (PVC-s) seismic isolation for developing countries. <i>Earthquake Spectra</i> , 2020, 36, 1886-1911.	3.1	35
25	A critical review on the vulnerability assessment of natural gas pipelines subjected to seismic wave propagation. Part 2: Pipe analysis aspects. <i>Tunnelling and Underground Space Technology</i> , 2019, 92, 103056.	6.2	34
26	Seismic response of stainless steel braced frames. <i>Journal of Constructional Steel Research</i> , 2008, 64, 914-925.	3.9	33
27	Seismic performance of bridges during the 2016 Central Italy earthquakes. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 5729-5761.	4.1	33
28	Integral abutment bridges: Investigation of seismic soil-structure interaction effects by shaking table testing. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 1517-1538.	4.4	32
29	Seismic performance assessment of stainless steel frames. <i>Journal of Constructional Steel Research</i> , 2003, 59, 1289-1319.	3.9	30
30	Efficiency of alternative intensity measures for the seismic assessment of monolithic free-standing columns. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 1635-1659.	4.1	30
31	Analytical fragility curves for masonry school building portfolios in Nepal. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 1121-1150.	4.1	30
32	Influence of frequency-dependent soil-structure interaction on the fragility of R/C bridges. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 139-158.	4.4	27
33	Optimal intensity measures for the structural assessment of buried steel natural gas pipelines due to seismically-induced axial compression at geotechnical discontinuities. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 131, 106030.	3.8	27
34	Seismic fragility of existing RC buildings with corroded bars under earthquake sequences. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 134, 106169.	3.8	27
35	Dynamic properties of typical consultation room medical components. <i>Engineering Structures</i> , 2015, 100, 442-454.	5.3	26
36	Probabilistic seismic performance assessment of an existing RC bridge with portal-frame piers designed for gravity loads only. <i>Engineering Structures</i> , 2017, 145, 348-367.	5.3	26

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37	Fragility assessment of existing low-rise steel moment-resisting frames with masonry infills under mainshock-aftershock earthquake sequences. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 2483-2504.	4.1	26
38	Scenario-Based Seismic Risk Assessment for Buried Transmission Gas Pipelines at Regional Scale. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2018, 9, .	1.6	25
39	Period elongation of deteriorating structures under mainshock-aftershock sequences. <i>Engineering Structures</i> , 2019, 196, 109341.	5.3	24
40	Performance of the healthcare facilities during the 2016â€“2017 Central Italy seismic sequence. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 5701-5727.	4.1	23
41	In support of circular economy to evaluate the effects of policies of construction and demolition waste management in three key cities in Yangtze River Delta. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 26, 100625.	3.3	23
42	Multiple support seismic excitation of the Eviros bridge based on free-field and on-structure recordings. <i>Structure and Infrastructure Engineering</i> , 2015, 11, 1510-1523.	3.7	22
43	Experimental response of an existing RC bridge with smooth bars and preliminary numerical simulations. <i>Engineering Structures</i> , 2017, 136, 355-368.	5.3	22
44	Effects of mainshock-aftershock sequences on fragility analysis of RC buildings with ageing. <i>Engineering Structures</i> , 2021, 232, 111837.	5.3	22
45	Inelastic response of composite steel and concrete base column connections. <i>Journal of Constructional Steel Research</i> , 2007, 63, 819-832.	3.9	21
46	Numerical evaluation of the seismic performance of existing reinforced concrete buildings with corroded smooth rebars. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 4227-4273.	4.1	21
47	Empirical seismic fragility models for Nepalese school buildings. <i>Natural Hazards</i> , 2021, 105, 339-362.	3.4	21
48	Comparative analysis of code-based approaches for seismic assessment of existing steel moment resisting frames. <i>Journal of Constructional Steel Research</i> , 2021, 181, 106589.	3.9	21
49	Evaluating carbon emissions of Chinaâ€™s waste management strategies for building refurbishment projects: contributing to a circular economy. <i>Environmental Science and Pollution Research</i> , 2023, 30, 8657-8671.	5.3	21
50	Probabilistic Assessment of Abutment-Embankment Stiffness and Implications in the Predicted Performance of Short Bridges. <i>Journal of Earthquake Engineering</i> , 2015, 19, 822-846.	2.5	20
51	A frequencyâ€“dependent and intensityâ€“dependent macroelement for reduced order seismic analysis of soilâ€“structure interacting systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 2172-2194.	4.4	19
52	The protection of artistic assets through the base isolation of historical buildings: a novel uplifting technology. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 4247-4263.	3.1	18
53	A Park-Ang damage index-based framework for post-mainshock structural safety assessment. <i>Structures</i> , 2021, 33, 820-829.	3.6	18
54	Reliability assessment of existing RC bridges with spatially-variable pitting corrosion subjected to increasing traffic demand. <i>Reliability Engineering and System Safety</i> , 2022, 218, 108137.	8.9	18

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55	Shaking table tests for the experimental verification of the effectiveness of an automated modal parameter monitoring system for existing bridges in seismic areas. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2165.	4.0	17
56	Petrochemical Steel Pipe Rack: Critical Assessment of Existing Design Code Provisions and a Case Study. <i>International Journal of Steel Structures</i> , 2020, 20, 232-246.	1.3	17
57	Accuracy of nonlinear static procedures for the seismic assessment of shear critical structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 1581-1600.	4.4	16
58	Seismic fragility of buried steel natural gas pipelines due to axial compression at geotechnical discontinuities. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 837-906.	4.1	16
59	Seismic assessment of existing steel frames with masonry infills. <i>Journal of Constructional Steel Research</i> , 2020, 169, 106040.	3.9	16
60	On the seismic fragility of pipe rack“ piping systems considering soil“structure interaction. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 2723-2757.	4.1	16
61	Effects of incident angles of earthquake sequences on seismic demands of structures. <i>Structures</i> , 2020, 28, 1244-1251.	3.6	15
62	Damage to Roadway Infrastructure from 2016 Central Italy Earthquake Sequence. <i>Earthquake Spectra</i> , 2018, 34, 1721-1737.	3.1	14
63	Influence of structure“foundation“soil interaction on ground motions recorded within buildings. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 5867-5895.	4.1	14
64	Assessment of existing steel frames: Numerical study, pseudo-dynamic testing and influence of masonry infills. <i>Journal of Constructional Steel Research</i> , 2021, 185, 106873.	3.9	14
65	Characterisation of shear wave velocity profiles of non-uniform bi-layer soil deposits: Analytical evaluation and experimental validation. <i>Soil Dynamics and Earthquake Engineering</i> , 2015, 75, 44-54.	3.8	13
66	System Dynamics-Life Cycle Assessment Causal Loop Model for Evaluating the Carbon Emissions of Building Refurbishment Construction and Demolition Waste. <i>Waste and Biomass Valorization</i> , 2022, 13, 4099-4113.	3.4	13
67	Approximate Method for Transverse Response Analysis of Partially Isolated Bridges. <i>Journal of Bridge Engineering</i> , 2013, 18, 1121-1130.	2.9	12
68	The SAFER geodatabase for the Kathmandu Valley: Geotechnical and geological variability. <i>Earthquake Spectra</i> , 2020, 36, 1549-1569.	3.1	12
69	Probabilistic loss assessment of curved bridges considering the effect of ground motion directionality. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 3623-3645.	4.4	11
70	Post-COVID-19 Development of Transnational Education in China: Challenges and Opportunities. <i>Education Sciences</i> , 2022, 12, 416.	2.6	11
71	The Effect of Atmospheric Corrosion on Steel Structures: A State-of-the-Art and Case-Study. <i>Buildings</i> , 2021, 11, 571.	3.1	10
72	Special metals for seismic retrofitting of steel buildings. <i>Structural Control and Health Monitoring</i> , 2003, 5, 60-76.	0.7	9

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73	Seismic Retrofitting of Existing RC Frames with Buckling Restrained Braces. , 2009, , .		9
74	Seismic Performance Assessment of Existing Steel Buildings: A Case Study. Key Engineering Materials, 0, 763, 1067-1076.	0.4	9
75	Intercontinental Hybrid Simulation for the Assessment of a Three-Span R/C Highway Overpass. Journal of Earthquake Engineering, 2019, 23, 1194-1215.	2.5	9
76	Normalized residual displacement spectra for post-mainshock assessment of structures subjected to aftershocks. Earthquake Engineering and Engineering Vibration, 2021, 20, 403-421.	2.3	9
77	Data set from shake table tests of free-standing rocking bodies. Earthquake Spectra, 2021, 37, 2971-2987.	3.1	9
78	Soil-Structure-Bridge System Stiffness Identification through Field and Laboratory Measurements. Journal of Bridge Engineering, 2016, 21, .	2.9	8
79	Earthquake early warning scenarios at critical facilities in the Eastern Caribbean. Bulletin of Earthquake Engineering, 2016, 14, 2579-2605.	4.1	8
80	Dataset from the shake table tests of a rocking podium structure. Earthquake Spectra, 2021, 37, 2107-2125.	3.1	8
81	Liquefaction potential for the Kathmandu Valley, Nepal: a sensitivity study. Bulletin of Earthquake Engineering, 2022, 20, 25-51.	4.1	8
82	Non-linear finite element optimization for inelastic buckling modelling of smooth rebars. Engineering Structures, 2021, 240, 112378.	5.3	5
83	Influence of seasonal soil temperature variation and global warming on the seismic response of frozen soils in permafrost regions. Earthquake Engineering and Structural Dynamics, 2021, 50, 3855.	4.4	5
84	SEISMIC BEHAVIOUR OF PERIMETER AND SPATIAL STEEL FRAMES. Journal of Earthquake Engineering, 2004, 8, 457-496.	2.5	4
85	Title is missing!. Journal of Earthquake Engineering, 2004, 8, 457.	2.5	4
86	Implications of subsoil-foundation modelling on the dynamic characteristics of a monitored bridge. Structure and Infrastructure Engineering, 2019, 15, 180-192.	3.7	4
87	Seismic risk of critical facilities in the Dominican Republic: case study of school buildings. Soft Computing, 2020, 24, 13579-13595.	3.6	4
88	Hybrid Simulation of Structure-Pipe-Structure Interaction within a Gas Processing Plant. Journal of Pipeline Systems Engineering and Practice, 2021, 12, .	1.6	4
89	On the aftershock polarity to assess residual displacement demands. Soil Dynamics and Earthquake Engineering, 2021, 150, 106932.	3.8	4
90	Seismic risk assessment of supporting structures and process piping for accident prevention in chemical facilities. International Journal of Disaster Risk Reduction, 2022, 69, 102748.	3.9	4

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91	ICT Applications for New Generation Seismic Design, Construction and Assessment of Bridges. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2014, 24, 173-183.	0.8	3
92	Experimental Assessment of Seismic Pile-Soil Interaction. Geotechnical, Geological and Earthquake Engineering, 2014, , 455-475.	0.2	3
93	Probabilistic structural performance of RC frames with corroded smooth bars subjected to near- and far-field ground motions. Journal of Building Engineering, 2022, 49, 104008.	3.4	3
94	Assessment of the Seismic Behaviour of a Retrofitted Old R.C. Highway Bridge Through PsD Testing. Geotechnical, Geological and Earthquake Engineering, 2015, , 199-227.	0.2	2
95	Experimental tests on full scale RC frames retrofitted with buckling restrained braces. , 2009, , .		2
96	NUMERICAL SIMULATION OF SOIL-STRUCTURE INTERACTION: A PARAMETRIC STUDY. , 2017, , .		2
97	New Light on an Ancient Illumination: the Pharos of Alexandria. International Journal of Nonlinear Sciences and Numerical Simulation, 2006, 7, 137-148.	1.0	1
98	Response of Structures. , 0, , 47-118.		1
99	Experimental Seismic Performance Assessment of Hospital Building Contents. , 2015, , .		1
100	Seismic Assessment of Pipe Racks Accounting for Soil-Structure Interaction. International Journal of Steel Structures, 2020, 20, 1929-1944.	1.3	1
101	Seismic performance-based assessment of a RC pipe rack accounting for dynamic interaction. Structures, 2021, 33, 4604-4615.	3.6	1
102	Design approach for the seismic strengthening of an existing RC building with buckling restrained braces. , 2009, , .		1
103	Numerical evaluation of reinforced concrete frames with corroded steel reinforcement under seismic loading: A case study. , 2019, , 112-120.		1
104	SEISMIC FRAGILITY OF FREESTANDING BUILDINGS CONTENTS MODELLED AS RIGID BLOCKS. , 2017, , .		1
105	Experimental Seismic Assessment of the Effectiveness of Isolation Techniques for the Seismic Protection of Existing RC Bridges. Lecture Notes in Civil Engineering, 2017, , 89-114.	0.4	1
106	Numerical Modelling of Masonry Infill Walls in Existing Steel Frames Against Experimental Results. Lecture Notes in Civil Engineering, 2022, , 491-498.	0.4	1
107	Appendix A: Structural Configurations and Systems for Effective Earthquake Resistance. , 0, , 263-289.		0
108	Earthquake Input Motion. , 0, , 119-184.		0

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109	Earthquake Characteristics. , 0, , 1-46.		0
110	Response Evaluation. , 0, , 185-262.		0
111	Appendix B: Damage to Structures. , 0, , 291-335.		0
112	Reply to the discussers' comments. Engineering Structures, 2014, 58, 112-113.	5.3	0
113	Damage Detection of a Bridge Model After Simulated Ground Motion. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 195-203.	0.5	0
114	Seismic assessment of a RC school building retrofitted with innovative braces. , 2008, , 409-410.		0
115	Soil-Pile-Structure Interaction Evidences from Scaled 1-g model. Sustainable Civil Infrastructures, 2018, , 93-102.	0.2	0
116	Investigation of the Seismic Risk of Industrial Pipe Rack - Piping Systems Accounting for Soil-Structure Interaction. , 2019, , .		0
117	Improved correlation between foundation and free-field ground motions through strong motion recordings and kinematic soil-structure interaction analyses. Earthquake Engineering and Structural Dynamics, 0, , .	4.4	0