

Luigi Disarno

List of Publications by Year in descending order

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117
papers

2,859
citations

172457

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all docs

124
docs citations

124
times ranked

1863
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating carbon emissions of China'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
2	Liquefaction potential for the Kathmandu Valley, Nepal: a sensitivity study. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 25-51.	4.1	8
3	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
4	Seismic risk assessment of supporting structures and process piping for accident prevention in chemical facilities. <i>International Journal of Disaster Risk Reduction</i> , 2022, 69, 102748.	3.9	4
5	Probabilistic structural performance of RC frames with corroded smooth bars subjected to near- and far-field ground motions. <i>Journal of Building Engineering</i> , 2022, 49, 104008.	3.4	3
6	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
7	Numerical Modelling of Masonry Infill Walls in Existing Steel Frames Against Experimental Results. <i>Lecture Notes in Civil Engineering</i> , 2022, , 491-498.	0.4	1
8	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
9	Post-COVID-19 Development of Transnational Education in China: Challenges and Opportunities. <i>Education Sciences</i> , 2022, 12, 416.	2.6	11
10	Analytical fragility curves for masonry school building portfolios in Nepal. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 1121-1150.	4.1	30
11	Empirical seismic fragility models for Nepalese school buildings. <i>Natural Hazards</i> , 2021, 105, 339-362.	3.4	21
12	Dataset from the shake table tests of a rocking podium structure. <i>Earthquake Spectra</i> , 2021, 37, 2107-2125.	3.1	8
13	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
14	Effects of mainshock-aftershock sequences on fragility analysis of RC buildings with ageing. <i>Engineering Structures</i> , 2021, 232, 111837.	5.3	22
15	Normalized residual displacement spectra for post-mainshock assessment of structures subjected to aftershocks. <i>Earthquake Engineering and Engineering Vibration</i> , 2021, 20, 403-421.	2.3	9
16	Hybrid Simulation of Structure-Pipe-Structure Interaction within a Gas Processing Plant. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2021, 12, .	1.6	4
17	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
18	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

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19	Data set from shake table tests of free-standing rocking bodies. <i>Earthquake Spectra</i> , 2021, 37, 2971-2987.	3.1	9
20	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
21	Non-linear finite element optimization for inelastic buckling modelling of smooth rebars. <i>Engineering Structures</i> , 2021, 240, 112378.	5.3	5
22	Influence of seasonal soil temperature variation and global warming on the seismic response of frozen soils in permafrost regions. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 3855.	4.4	5
23	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
24	Seismic performance-based assessment of a RC pipe rack accounting for dynamic interaction. <i>Structures</i> , 2021, 33, 4604-4615.	3.6	1
25	A Park-Ang damage index-based framework for post-mainshock structural safety assessment. <i>Structures</i> , 2021, 33, 820-829.	3.6	18
26	On the aftershock polarity to assess residual displacement demands. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 150, 106932.	3.8	4
27	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
28	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
29	Seismic risk of critical facilities in the Dominican Republic: case study of school buildings. <i>Soft Computing</i> , 2020, 24, 13579-13595.	3.6	4
30	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
31	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
32	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
33	Effects of incident angles of earthquake sequences on seismic demands of structures. <i>Structures</i> , 2020, 28, 1244-1251.	3.6	15
34	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
35	Seismic Assessment of Pipe Racks Accounting for Soil-Structure Interaction. <i>International Journal of Steel Structures</i> , 2020, 20, 1929-1944.	1.3	1
36	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

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37	Seismic assessment of existing steel frames with masonry infills. Journal of Constructional Steel Research, 2020, 169, 106040.	3.9	16
38	The SAFER geodatabase for the Kathmandu Valley: Geotechnical and geological variability. Earthquake Spectra, 2020, 36, 1549-1569.	3.1	12
39	On the seismic fragility of pipe rack" piping systems considering soil"structure interaction. Bulletin of Earthquake Engineering, 2020, 18, 2723-2757.	4.1	16
40	Optimal intensity measures for the structural assessment of buried steel natural gas pipelines due to seismically-induced axial compression at geotechnical discontinuities. Soil Dynamics and Earthquake Engineering, 2020, 131, 106030.	3.8	27
41	Seismic fragility of existing RC buildings with corroded bars under earthquake sequences. Soil Dynamics and Earthquake Engineering, 2020, 134, 106169.	3.8	27
42	Seismic performance of bridges during the 2016 Central Italy earthquakes. Bulletin of Earthquake Engineering, 2019, 17, 5729-5761.	4.1	33
43	Influence of structure"foundation"soil interaction on ground motions recorded within buildings. Bulletin of Earthquake Engineering, 2019, 17, 5867-5895.	4.1	14
44	A critical review on the vulnerability assessment of natural gas pipelines subjected to seismic wave propagation. Part 2: Pipe analysis aspects. Tunnelling and Underground Space Technology, 2019, 92, 103056.	6.2	34
45	Period elongation of deteriorating structures under mainshock-aftershock sequences. Engineering Structures, 2019, 196, 109341.	5.3	24
46	Residual displacement ratios of structures under mainshock-aftershock sequences. Soil Dynamics and Earthquake Engineering, 2019, 121, 179-193.	3.8	43
47	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. Tunnelling and Underground Space Technology, 2019, 86, 279-296.	6.2	45
48	Integrated seismic risk and resilience assessment of roadway networks in earthquake prone areas. Bulletin of Earthquake Engineering, 2019, 17, 181-210.	4.1	86
49	Implications of subsoil-foundation modelling on the dynamic characteristics of a monitored bridge. Structure and Infrastructure Engineering, 2019, 15, 180-192.	3.7	4
50	Experimental assessment of the seismic performance of hospital cabinets using shake table testing. Earthquake Engineering and Structural Dynamics, 2019, 48, 103-123.	4.4	83
51	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
52	Performance of the healthcare facilities during the 2016"2017 Central Italy seismic sequence. Bulletin of Earthquake Engineering, 2019, 17, 5701-5727.	4.1	23
53	Numerical evaluation of reinforced concrete frames with corroded steel reinforcement under seismic loading: A case study. , 2019, , 112-120.		1
54	Investigation of the Seismic Risk of Industrial Pipe Rack - Piping Systems Accounting for Soil-Structure Interaction. , 2019, , .		0

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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. Structural Control and Health Monitoring, 2018, 25, e2165.	4.0	17
56	A frequencyâ€dependent and intensityâ€dependent macroelement for reduced order seismic analysis of soilâ€structure interacting systems. Earthquake Engineering and Structural Dynamics, 2018, 47, 2172-2194.	4.4	19
57	Reconnaissance of 2016 Central Italy Earthquake Sequence. Earthquake Spectra, 2018, 34, 1547-1555.	3.1	36
58	Damage to Roadway Infrastructure from 2016 Central Italy Earthquake Sequence. Earthquake Spectra, 2018, 34, 1721-1737.	3.1	14
59	Scenario-Based Seismic Risk Assessment for Buried Transmission Gas Pipelines at Regional Scale. Journal of Pipeline Systems Engineering and Practice, 2018, 9, .	1.6	25
60	Local Site Effects and Incremental Damage of Buildings during the 2016 Central Italy Earthquake Sequence. Earthquake Spectra, 2018, 34, 1639-1669.	3.1	78
61	Soil-Pile-Structure Interaction Evidences from Scaled 1-g model. Sustainable Civil Infrastructures, 2018, , 93-102.	0.2	0
62	Experimental response of an existing RC bridge with smooth bars and preliminary numerical simulations. Engineering Structures, 2017, 136, 355-368.	5.3	22
63	Numerical modelling and fragility assessment of typical freestanding building contents. Bulletin of Earthquake Engineering, 2017, 15, 1609-1633.	4.1	53
64	Probabilistic seismic performance assessment of an existing RC bridge with portal-frame piers designed for gravity loads only. Engineering Structures, 2017, 145, 348-367.	5.3	26
65	Efficiency of alternative intensity measures for the seismic assessment of monolithic free-standing columns. Bulletin of Earthquake Engineering, 2017, 15, 1635-1659.	4.1	30
66	Influence of frequencyâ€dependent soilâ€structure interaction on the fragility of R/C bridges. Earthquake Engineering and Structural Dynamics, 2017, 46, 139-158.	4.4	27
67	SEISMIC FRAGILITY OF FREESTANDING BUILDINGS CONTENTS MODELLED AS RIGID BLOCKS. , 2017, , .		1
68	NUMERICAL SIMULATION OF SOIL-STRUCTURE INTERACTION: A PARAMETRIC STUDY. , 2017, , .		2
69	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
70	Damage Detection of a Bridge Model After Simulated Ground Motion. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 195-203.	0.5	0
71	Soilâ€pileâ€structure interaction: experimental outcomes from shaking table tests. Earthquake Engineering and Structural Dynamics, 2016, 45, 1041-1061.	4.4	64
72	Soilâ€Bridge System Stiffness Identification through Field and Laboratory Measurements. Journal of Bridge Engineering, 2016, 21, .	2.9	8

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73	Earthquake early warning scenarios at critical facilities in the Eastern Caribbean. Bulletin of Earthquake Engineering, 2016, 14, 2579-2605.	4.1	8
74	The protection of artistic assets through the base isolation of historical buildings: a novel uplifting technology. Materials and Structures/Materiaux Et Constructions, 2016, 49, 4247-4263.	3.1	18
75	Multi-angle, multi-damage fragility curves for seismic assessment of bridges. Earthquake Engineering and Structural Dynamics, 2015, 44, 2281-2301.	4.4	42
76	Hybrid simulation of a multi-span RC viaduct with plain bars and sliding bearings. Earthquake Engineering and Structural Dynamics, 2015, 44, 2221-2240.	4.4	44
77	A time-domain seismic SSI analysis method for inelastic bridge structures through the use of a frequency-dependent lumped parameter model. Earthquake Engineering and Structural Dynamics, 2015, 44, 2137-2156.	4.4	39
78	Experimental Seismic Performance Assessment of Hospital Building Contents. , 2015, , .		1
79	Accuracy of nonlinear static procedures for the seismic assessment of shear critical structures. Earthquake Engineering and Structural Dynamics, 2015, 44, 1581-1600.	4.4	16
80	Probabilistic Assessment of Abutment-Embankment Stiffness and Implications in the Predicted Performance of Short Bridges. Journal of Earthquake Engineering, 2015, 19, 822-846.	2.5	20
81	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
82	Characterisation of shear wave velocity profiles of non-uniform bi-layer soil deposits: Analytical evaluation and experimental validation. Soil Dynamics and Earthquake Engineering, 2015, 75, 44-54.	3.8	13
83	Multiple support seismic excitation of the Evripos bridge based on free-field and on-structure recordings. Structure and Infrastructure Engineering, 2015, 11, 1510-1523.	3.7	22
84	Dynamic properties of typical consultation room medical components. Engineering Structures, 2015, 100, 442-454.	5.3	26
85	Shake table tests for the seismic fragility evaluation of hospital rooms. Earthquake Engineering and Structural Dynamics, 2015, 44, 23-40.	4.4	61
86	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
87	Experimental Assessment of Seismic Pile-Soil Interaction. Geotechnical, Geological and Earthquake Engineering, 2014, , 455-475.	0.2	3
88	Reply to the discussers' comments. Engineering Structures, 2014, 58, 112-113.	5.3	0
89	Effects of multiple earthquakes on inelastic structural response. Engineering Structures, 2013, 56, 673-681.	5.3	86
90	Approximate Method for Transverse Response Analysis of Partially Isolated Bridges. Journal of Bridge Engineering, 2013, 18, 1121-1130.	2.9	12

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91	Field evidence and numerical investigation of the $M_w = 7.1$ October 23 Van, TabanlÄ± and the $M_w > 5.7$ November earthquakes of 2011. Bulletin of Earthquake Engineering, 2013, 11, 313-346.	4.1	38
92	Experimental tests on full-scale RC unreinforced frame and retrofitted with buckling-restrained braces. Earthquake Engineering and Structural Dynamics, 2012, 41, 315-333.	4.4	99
93	Seismic response analysis of an irregular base isolated building. Bulletin of Earthquake Engineering, 2011, 9, 1673-1702.	4.1	36
94	Assessment of RC columns subjected to horizontal and vertical ground motions recorded during the 2009 L'Aquila (Italy) earthquake. Engineering Structures, 2011, 33, 1514-1535.	5.3	67
95	Seismic retrofitting with buckling restrained braces: Application to an existing non-ductile RC framed building. Soil Dynamics and Earthquake Engineering, 2010, 30, 1279-1297.	3.8	113
96	Seismic Retrofitting of Existing RC Frames with Buckling Restrained Braces. , 2009, , .		9
97	Bracing systems for seismic retrofitting of steel frames. Journal of Constructional Steel Research, 2009, 65, 452-465.	3.9	113
98	Design approach for the seismic strengthening of an existing RC building with buckling restrained braces. , 2009, , .		1
99	Experimental tests on full scale RC frames retrofitted with buckling restrained braces. , 2009, , .		2
100	Seismic response of stainless steel braced frames. Journal of Constructional Steel Research, 2008, 64, 914-925.	3.9	33
101	Seismic assessment of a RC school building retrofitted with innovative braces. , 2008, , 409-410.		0
102	Inelastic response of composite steel and concrete base column connections. Journal of Constructional Steel Research, 2007, 63, 819-832.	3.9	21
103	Seismic retrofitting of framed structures with stainless steel. Journal of Constructional Steel Research, 2006, 62, 93-104.	3.9	37
104	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
105	Innovative strategies for seismic retrofitting of steel and composite structures. Structural Control and Health Monitoring, 2005, 7, 115-135.	0.7	60
106	SEISMIC BEHAVIOUR OF PERIMETER AND SPATIAL STEEL FRAMES. Journal of Earthquake Engineering, 2004, 8, 457-496.	2.5	4
107	Title is missing!. Journal of Earthquake Engineering, 2004, 8, 457.	2.5	4
108	Seismic performance assessment of stainless steel frames. Journal of Constructional Steel Research, 2003, 59, 1289-1319.	3.9	30

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109	Special metals for seismic retrofitting of steel buildings. Structural Control and Health Monitoring, 2003, 5, 60-76.	0.7	9
110	Appendix A: Structural Configurations and Systems for Effective Earthquake Resistance. , 0, , 263-289.		0
111	Earthquake Input Motion. , 0, , 119-184.		0
112	Response of Structures. , 0, , 47-118.		1
113	Earthquake Characteristics. , 0, , 1-46.		0
114	Response Evaluation. , 0, , 185-262.		0
115	Appendix B: Damage to Structures. , 0, , 291-335.		0
116	Seismic Performance Assessment of Existing Steel Buildings: A Case Study. Key Engineering Materials, 0, 763, 1067-1076.	0.4	9
117	Improved correlation between foundation and freeâ€field ground motions through strong motion recordings and kinematic soilâ€structure interaction analyses. Earthquake Engineering and Structural Dynamics, 0, , .	4.4	0