

Carmine Galasso

List of Publications by Year in descending order

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92
papers

2,545
citations

201674

27
h-index

223800

46
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99
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99
docs citations

99
times ranked

1598
citing authors

#	ARTICLE	IF	CITATIONS
1	REXEL: computer aided record selection for code-based seismic structural analysis. <i>Bulletin of Earthquake Engineering</i> , 2010, 8, 339-362.	4.1	479
2	Ground Motion Record Selection Based on Broadband Spectral Compatibility. <i>Earthquake Spectra</i> , 2014, 30, 1427-1448.	3.1	136
3	Current Challenges and Future Trends in Analytical Fragility and Vulnerability Modeling. <i>Earthquake Spectra</i> , 2019, 35, 1927-1952.	3.1	113
4	Earthquake early warning: Recent advances and perspectives. <i>Earth-Science Reviews</i> , 2020, 205, 103184.	9.1	88
5	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
6	Fragility Curves for Assessing the Resilience of Electricity Networks Constructed from an Extensive Fault Database. <i>Natural Hazards Review</i> , 2018, 19, .	1.5	68
7	FRACAS: A capacity spectrum approach for seismic fragility assessment including record-to-record variability. <i>Engineering Structures</i> , 2016, 125, 337-348.	5.3	62
8	From rapid visual survey to multi-hazard risk prioritisation and numerical fragility of school buildings. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 1365-1386.	3.6	59
9	Collapse risk and residual drift performance of steel buildings using post-tensioned MRFs and viscous dampers in near-fault regions. <i>Bulletin of Earthquake Engineering</i> , 2016, 14, 1643-1662.	4.1	57
10	A multi-hazard risk prioritisation framework for cultural heritage assets. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 1391-1414.	3.6	56
11	Gaussian process regression for seismic fragility assessment of building portfolios. <i>Structural Safety</i> , 2020, 87, 101980.	5.3	53
12	Validation of ground motion simulations for historical events using MDoF systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 1395-1412.	4.4	45
13	Engineering ground motion record selection in the Italian ACcelerometric Archive. <i>Bulletin of Earthquake Engineering</i> , 2011, 9, 1761-1778.	4.1	43
14	Uncertainty in early warning predictions of engineering ground motion parameters: What really matters?. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	40
15	Editorial. Risk-based, Pro-poor Urban Design and Planning for Tomorrow's Cities. <i>International Journal of Disaster Risk Reduction</i> , 2021, 58, 102158.	3.9	40
16	Conditional Hazard Maps for Secondary Intensity Measures. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 3312-3319.	2.3	39
17	Modelling and quantifying tomorrow's risks from natural hazards. <i>Science of the Total Environment</i> , 2022, 817, 152552.	8.0	39
18	2016-2017 Central Italy Earthquake Sequence: Seismic Retrofit Policy and Effectiveness. <i>Earthquake Spectra</i> , 2018, 34, 1671-1691.	3.1	36

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19	Accounting for spectral shape in simplified fragility analysis of case-study reinforced concrete frames. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 119, 91-103.	3.8	36
20	Validation of Ground-Motion Simulations for Historical Events Using SDoF Systems. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 2727-2740.	2.3	34
21	A Likert Scale-Based Model for Benchmarking Operational Capacity, Organizational Resilience, and Disaster Risk Reduction. <i>International Journal of Disaster Risk Science</i> , 2020, 11, 404-409.	2.9	34
22	Resilient communities through safer schools. <i>International Journal of Disaster Risk Reduction</i> , 2020, 45, 101446.	3.9	32
23	Hysteretic energy-based state-dependent fragility for ground-motion sequences. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 1187-1203.	4.4	31
24	Effects of ground-motion sequences on fragility and vulnerability of case-study reinforced concrete frames. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 6329-6359.	4.1	30
25	Gaussian process regression for fatigue reliability analysis of offshore wind turbines. <i>Structural Safety</i> , 2021, 88, 102020.	5.3	30
26	Simplified seismic loss assessment for optimal structural retrofit of RC buildings. <i>Earthquake Spectra</i> , 2021, 37, 346-365.	3.1	30
27	Uncertainly Analysis of Flexural Overstrength for Capacity Design of RC Beams. <i>Journal of Structural Engineering</i> , 2014, 140, .	3.4	29
28	RC infilled building performance against the evidence of the 2016 EEFIT Central Italy post-earthquake reconnaissance mission: empirical fragilities and comparison with the FAST method. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 2943-2969.	4.1	29
29	Simplicity versus accuracy trade-off in estimating seismic fragility of existing reinforced concrete buildings. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 144, 106678.	3.8	29
30	A Review of the Technical and Socio-Organizational Components of Earthquake Early Warning Systems. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	27
31	A probabilistic framework for offshore wind turbine loss assessment. <i>Renewable Energy</i> , 2020, 147, 1772-1783.	8.9	25
32	Cloud Capacity Spectrum Method: Accounting for record-to-record variability in fragility analysis using nonlinear static procedures. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 150, 106829.	3.8	25
33	Urban growth modelling and social vulnerability assessment for a hazardous Kathmandu Valley. <i>Scientific Reports</i> , 2022, 12, 6152.	3.3	25
34	A decision-making methodology for risk-informed earthquake early warning. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 747-761.	9.8	24
35	Investigating the potential effectiveness of earthquake early warning across Europe. <i>Nature Communications</i> , 2022, 13, 639.	12.8	24
36	A deep neural network framework for real-time on-site estimation of acceleration response spectra of seismic ground motions. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2023, 38, 87-103.	9.8	24

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37	Probabilistic earthquake and flood loss assessment in the Middle East. International Journal of Disaster Risk Reduction, 2020, 49, 101662.	3.9	23
38	A simplified method for flexural capacity assessment of circular RC cross-sections. Engineering Structures, 2011, 33, 942-946.	5.3	20
39	A model taxonomy for flood fragility and vulnerability assessment of buildings. International Journal of Disaster Risk Reduction, 2021, 53, 101985.	3.9	20
40	Modification of stochastic ground motion models for matching target intensity measures. Earthquake Engineering and Structural Dynamics, 2018, 47, 3-24.	4.4	19
41	Ground-motion intensity measure correlations observed in Italian strong-motion records. Earthquake Engineering and Structural Dynamics, 2019, 48, 1634-1660.	4.4	19
42	Variable Fault Geometry Suggests Detailed Fault Slip Rate Profiles and Geometries Are Needed for Fault-Based Probabilistic Seismic Hazard Assessment (PSHA). Bulletin of the Seismological Society of America, 2019, 109, 110-123.	2.3	19
43	Surrogate probabilistic seismic demand modelling of inelastic single-degree-of-freedom systems for efficient earthquake risk applications. Earthquake Engineering and Structural Dynamics, 2022, 51, 492-511.	4.4	18
44	A Simulation-Based Framework for Earthquake Risk-Informed and People-Centered Decision Making on Future Urban Planning. Earth's Future, 2022, 10, .	6.3	18
45	Fracture Mechanics-Based Design of Column Splices with Partial Joint Penetration Welds. Journal of Structural Engineering, 2016, 142, .	3.4	16
46	Developing a risk-informed decision-support system for earthquake early warning at a critical seaport. Reliability Engineering and System Safety, 2022, 218, 108035.	8.9	16
47	Probabilistic demand and fragility assessment of welded column splices in steel moment frames. Earthquake Engineering and Structural Dynamics, 2015, 44, 1823-1840.	4.4	14
48	Site-specific ultimate limit state fragility of offshore wind turbines on monopile substructures. Engineering Structures, 2020, 204, 109903.	5.3	14
49	Comparative assessment of load-resistance factor design of FRP-reinforced cross sections. Construction and Building Materials, 2012, 34, 151-161.	7.2	13
50	Hazard-compatible modification of stochastic ground motion models. Earthquake Engineering and Structural Dynamics, 2018, 47, 1774-1798.	4.4	13
51	An Advanced Estimation Algorithm for Ground-Motion Models with Spatial Correlation. Bulletin of the Seismological Society of America, 2019, 109, 541-566.	2.3	13
52	Accounting for directivity-induced pulse-like ground motions in building portfolio loss assessment. Bulletin of Earthquake Engineering, 2021, 19, 6303-6328.	4.1	13
53	Advancements in multi-rupture time-dependent seismic hazard modeling, including fault interaction. Earth-Science Reviews, 2021, 220, 103650.	9.1	12
54	Material Property Uncertainties versus Joint Structural Detailing: Relative Effect on the Seismic Fragility of Reinforced Concrete Frames. Journal of Structural Engineering, 2021, 147, .	3.4	11

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55	A fragility-oriented approach for seismic retrofit design. <i>Earthquake Spectra</i> , 2022, 38, 1813-1843.	3.1	11
56	Validation of stochastic ground motion model modification by comparison to seismic demand of recorded ground motions. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 2871-2898.	4.1	10
57	Data schemas for multiple hazards, exposure and vulnerability. <i>Disaster Prevention and Management</i> , 2019, 28, 752-763.	1.2	10
58	Correlation properties of integral ground motion intensity measures from Italian strong motion records. <i>Earthquake Engineering and Structural Dynamics</i> , 2020, 49, 1581-1598.	4.4	10
59	A computational framework for selecting the optimal combination of seismic retrofit and insurance coverage. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 956-975.	9.8	10
60	Validation of the Epidemic-Type Aftershock Sequence (ETAS) Models for Simulation-Based Seismic Hazard Assessments. <i>Seismological Research Letters</i> , 2022, 93, 1601-1618.	1.9	10
61	Impact of climate-change scenarios on offshore wind turbine structural performance. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110323.	16.4	9
62	Accuracy and Uncertainty Analysis of Selected Methodological Approaches to Earthquake Early Warning in Europe. <i>Seismological Research Letters</i> , 2021, 92, 2321-2332.	1.9	9
63	Comparing the Performance of Regional Earthquake Early Warning Algorithms in Europe. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	9
64	Validation of Ground Motion Simulations for Historical Events using Skewed Bridges. <i>Journal of Earthquake Engineering</i> , 2020, 24, 1652-1674.	2.5	8
65	A simple method for N \times M interaction diagrams of circular reinforced concrete cross sections. <i>Structural Concrete</i> , 2020, 21, 48-55.	3.1	8
66	Typhoon risk and climate-change impact assessment for cultural heritage asset roofs. <i>Structural Safety</i> , 2021, 91, 102065.	5.3	8
67	Advancing fracture fragility assessment of pre-Northridge welded column splices. <i>Earthquake Engineering and Structural Dynamics</i> , 2020, 49, 132-154.	4.4	7
68	Predicting approximate seismic responses in multistory buildings from real-time earthquake source information, for earthquake early warning applications. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 4865-4885.	4.1	7
69	Seismic Performance of Exposed Column-Base Plate Connections with Ductile Anchor Rods. <i>Journal of Structural Engineering</i> , 2022, 148, .	3.4	7
70	Column splice fracture effects on the seismic performance of steel moment frames. <i>Journal of Constructional Steel Research</i> , 2017, 137, 93-101.	3.9	6
71	Information theory measures for the engineering validation of ground motion simulations. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 1095-1104.	4.4	6
72	Directivity-Induced Pulse-Like Ground Motions and Fracture Risk of Pre-Northridge Welded Column Splices. <i>Journal of Earthquake Engineering</i> , 2022, 26, 2754-2772.	2.5	6

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73	Satellite precipitation-based extreme event detection for flood index insurance. International Journal of Disaster Risk Reduction, 2021, 55, 102108.	3.9	6
74	A multi-fidelity Bayesian framework for robust seismic fragility analysis. Earthquake Engineering and Structural Dynamics, 2021, 50, 4199-4219.	4.4	6
75	A Bayesian model for wind farm capacity factors. Energy Conversion and Management, 2022, 252, 114950.	9.2	6
76	A comparison of NGA-West2 ground-motion models to recent Chinese data. Soil Dynamics and Earthquake Engineering, 2019, 125, 105677.	3.8	5
77	Wind-uplift fragility analysis of roof sheathing for cultural heritage assets in the Philippines. International Journal of Disaster Risk Reduction, 2020, 51, 101753.	3.9	4
78	Multicriteria decision making for selecting an optimal survey approach for large building portfolios. International Journal of Disaster Risk Reduction, 2022, 76, 102985.	3.9	4
79	A Bayesian network-based probabilistic framework for updating aftershock risk of bridges. Earthquake Engineering and Structural Dynamics, 2022, 51, 2496-2519.	4.4	4
80	Integrating earthquake early warnings into business continuity and organisational resilience: lessons learned from Mexico City. Disasters, 2023, 47, 320-345.	2.2	4
81	A Statistical Model for Flood Depth Estimation in Southeast Europe. , 2014, , .		3
82	Reliability Analysis and Design Considerations for Exposed Column Base Plate Connections Subjected to Flexure and Axial Compression. Journal of Structural Engineering, 2021, 147, .	3.4	3
83	STATE-DEPENDENT VULNERABILITY OF CASE-STUDY REINFORCED CONCRETE FRAMES. , 2019, , .		3
84	A generalized ground-motion model for consistent mainshock-aftershock intensity measures using successive recurrent neural networks. Bulletin of Earthquake Engineering, 0, , .	4.1	3
85	A Region-Specific Ground-Motion Model for Inelastic Spectral Displacement in Northern Italy Considering Spatial Correlation Properties. Seismological Research Letters, 2021, 92, 1979-1991.	1.9	2
86	TYPHOON FRAGILITY ANALYSIS AND CLIMATE CHANGE IMPACT ASSESSMENT OF FILIPINO CULTURAL HERITAGE ASSET ROOFS. , 2020, , .		2
87	INVESTIGATING GROUND-MOTION DURATION EFFECTS ON BUILDING PORTFOLIO LOSS ESTIMATES. , 2021, , .		1
88	MAPPING PERFORMANCE-TARGETED RETROFITTING TO SEISMIC FRAGILITY REDUCTION. , 2021, , .		1
89	OPTIMAL RETROFIT SELECTION FOR SEISMICALLY-DEFICIENT RC BUILDINGS BASED ON SIMPLIFIED PERFORMANCE ASSESSMENT. , 2019, , .		1
90	Derivation of Fracture Mechanics Based Design Formulas for Partial Joint Penetration Welded Column Splices. , 2015, , .		0

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91	COLLAPSE RISK EVALUATION OF SELF-CENTERING STEEL MRFS WITH VISCOUS DAMPERS IN NEAR-FAULT REGIONS. , 2015, , .		0
92	REGIONAL-SCALE SEISMIC FRAGILITY ASSESSMENT BASED ON GAUSSIAN PROCESS REGRESSION. , 2019, , .		0