Gaetano Manfredi

List of Publications by Citations

256 papers	8,565 citations	50 h-index	74 g-index
265 ext. papers	9,900 ext. citations	4 avg, IF	6.4 L-index

#	Paper	IF	Citations
256	Behavior and Modeling of Bond of FRP Rebars to Concrete. *Journal of Composites for Construction*, **1997**, 1, 40-51	3.3	330
255	The use of damage functionals in earthquake engineering: A comparison between different methods. *Earthquake Engineering and Structural Dynamics*, **1993**, 22, 855-868	4	182
254	Bond Efficiency of EBR and NSM FRP Systems for Strengthening Concrete Members. *Journal of Composites for Construction*, **2011**, 15, 757-772	3.3	162
253	Experimental In-Plane Behavior of Tuff Masonry Strengthened with Cementitious Matrix□Grid Composites. *Journal of Composites for Construction*, **2006**, 10, 223-233	3.3	162
252	Structural Upgrade Using Basalt Fibers for Concrete Confinement. *Journal of Composites for Construction*, **2010**, 14, 541-552	3.3	141
251	The Emilia Earthquake: Seismic Performance of Precast Reinforced Concrete Buildings. *Earthquake Spectra*, **2014**, 30, 891-912	3.4	140
250	In-plane shear performance of masonry panels strengthened with FRP. *Composites Part B: Engineering*, **2007**, 38, 887-901	10	129
249	Ground motion duration effects on nonlinear seismic response. *Earthquake Engineering and Structural Dynamics*, **2006**, 35, 21-38	4	125
248	Bayesian Cloud Analysis: efficient structural fragility assessment using linear regression. *Bulletin of Earthquake Engineering*, **2015**, 13, 1183-1203	3.7	119
247	Durability issues of FRP rebars in reinforced concrete members. *Cement and Concrete Composites*, **2006**, 28, 857-868	8.6	110
246	Analytical fragility assessment using unscaled ground motion records. *Earthquake Engineering and Structural Dynamics*, **2017**, 46, 2639-2663	4	108
245	Evaluation of seismic energy demand. *Earthquake Engineering and Structural Dynamics*, **2001**, 30, 485-499	4	107
244	Experimental Response and Code Modelsof GFRP RC Beams in Bending. *Journal of Composites for Construction*, **2000**, 4, 182-190	3.3	102
243	Seismic behavior of a full-scale RC frame repaired using CFRP laminates. *Engineering Structures*, **2005**, 27, 769-780	4.7	97
242	Use of geopolymers for composite external reinforcement of RC members. *Composites Part B: Engineering*, **2013**, 45, 1667-1676	10	93
241	Damage indices and damage measures. *Structural Control and Health Monitoring*, **2000**, 2, 50-59		88
240	Seismic retrofitting with buckling restrained braces: Application to an existing non-ductile RC framed building. *Soil Dynamics and Earthquake Engineering*, **2010**, 30, 1279-1297	3.5	86

239	Evaluation of different computational modelling strategies for the analysis of low strength masonry structures. *Engineering Structures*, **2014**, 73, 160-169	4.7	85
238	Comparative Analysis of Multi-Criteria Decision-Making Methods for Seismic Structural Retrofitting. *Computer-Aided Civil and Infrastructure Engineering*, **2009**, 24, 432-445	8.4	85
237	Reconstruction process of damaged residential buildings outside historical centres after the L'Aquila earthquake: part II "heavy damage" reconstruction. *Bulletin of Earthquake Engineering*, **2017**, 15, 693-729	3.7	83
236	Experimental tests on full-scale RC unretrofitted frame and retrofitted with buckling-restrained braces. *Earthquake Engineering and Structural Dynamics*, **2012**, 41, 315-333	4	83
235	Reconstruction process of damaged residential buildings outside historical centres after the L'Aquila earthquake: part I "light damage" reconstruction. *Bulletin of Earthquake Engineering*, **2017**, 15, 667-692	3.7	82
234	Preliminary ranking of alternative scalar and vector intensity measures of ground shaking. *Bulletin of Earthquake Engineering*, **2015**, 13, 2805-2840	3.7	79
233	Experimental and Analytical Evaluation of Bond Properties of GFRP Bars. *Journal of Materials in Civil Engineering*, **2001**, 13, 282-290	3	79
232	Flood risk assessment for informal settlements. *Natural Hazards*, **2013**, 69, 1003-1032	3	77
231	Seismic response of r.c. columns with smooth reinforcement. Part II: Cyclic tests. *Engineering Structures*, **2008**, 30, 2289-2300	4.7	77
230	FRP Confinement of Tuff and Clay Brick Columns: Experimental Study and Assessment of Analytical Models. *Journal of Composites for Construction*, **2010**, 14, 583-596	3.3	76
229	In-Plane Lateral Response of a Full-Scale Masonry Subassemblage with and without an Inorganic Matrix-Grid Strengthening System. *Journal of Composites for Construction*, **2011**, 15, 578-590	3.3	76
228	Empirical fragility curves from damage data on RC buildings after the 2009 L'Aquila earthquake. *Bulletin of Earthquake Engineering*, **2017**, 15, 1425-1450	3.7	75
227	Cyclic bond behaviour of plain bars. Part I: Experimental investigation. *Construction and Building Materials*, **2009**, 23, 3499-3511	6.7	75
226	Experimental Investigation of Exterior RC Beam-Column Joints Retrofitted with FRP Systems. *Journal of Composites for Construction*, **2014**, 18, 04014002	3.3	72
225	Application-Oriented Chemical Optimization of a Metakaolin Based Geopolymer. *Materials*, **2013**, 6, 1920-1939	3.1	72
224	Preliminary analysis of a soft-storey mechanism after the 2009 L'Aquila earthquake. *Earthquake Engineering and Structural Dynamics*, **2011**, 40, 925-944	4	70
223	Structural modeling uncertainties and their influence on seismic assessment of existing RC structures. *Structural Safety*, **2010**, 32, 220-228	4.9	69
222	Proposal of a probabilistic model for multi-hazard risk assessment of structures in seismic zones subjected to blast for the limit state of collapse. *Structural Safety*, **2010**, 32, 25-34	4.9	66

221	Experimental Performance of RC Hollow Columns Confined with CFRP. *Journal of Composites for Construction*, **2007**, 11, 42-49	3.3	66
220	Seismic demand on light acceleration-sensitive nonstructural components in European reinforced concrete buildings. *Earthquake Engineering and Structural Dynamics*, **2015**, 44, 1203-1217	4	63
219	Developing an integrated framework to quantify resilience of urban systems against disasters. *Natural Hazards*, **2015**, 78, 1729-1748	3	62
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217	Seismic response of r.c. columns with smooth reinforcement. Part I: Monotonic tests. *Engineering Structures*, **2008**, 30, 2277-2288	4.7	59
216	Seismic strengthening of an under-designed RC structure with FRP. *Earthquake Engineering and Structural Dynamics*, **2008**, 37, 141-162	4	59
215	Development length of FRP straight rebars. *Composites Part B: Engineering*, **2002**, 33, 493-504	10	59
214	Seismic performance evaluation of plasterboard partitions via shake table tests. *Bulletin of Earthquake Engineering*, **2014**, 12, 1657-1677	3.7	58
213	Dynamic behavior of a Mediterranean natural stone under tensile loading. *International Journal of Rock Mechanics and Minings Sciences*, **2009**, 46, 514-520	6	57
212	Nonlinear Behavior of a Masonry Subassemblage Before and After Strengthening with Inorganic Matrix-Grid Composites. *Journal of Composites for Construction*, **2011**, 15, 821-832	3.3	56
211	Multi-Criteria Decision Making for Seismic Retrofitting of RC Structures. *Journal of Earthquake Engineering*, **2008**, 12, 555-583	1.8	56
210	Probabilistic GIS-based method for delineation of urban flooding risk hotspots. *Natural Hazards*, **2014**, 73, 975	3	55
209	Analysis of Continuous Composite Beams Including Partial Interaction and Bond. *Journal of Structural Engineering*, **2000**, 126, 1288-1294	3	52
208	Fire resistance of concrete slabs reinforced with FRP bars. Part I: Experimental investigations on the mechanical behavior. *Composites Part B: Engineering*, **2011**, 42, 1739-1750	10	51
207	Multiscale approach for the design of composite sandwich structures for train application. *Composite Structures*, **2010**, 92, 2208-2219	5.3	50
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204	Experimental investigation of the seismic performances of IMG reinforcement on curved masonry elements. *Composites Part B: Engineering*, **2015**, 70, 53-63	10	48

203	FEM analysis of the strength of RC beam-to-column dowel connections under monotonic actions. *Construction and Building Materials*, **2014**, 69, 271-284	6.7	48
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201	Analytical investigation of elastic period of infilled RC MRF buildings. *Engineering Structures*, **2011**, 33, 308-319	4.7	46
200	Potential of structural pozzolanic matrix–hemp fiber grid composites. *Construction and Building Materials*, **2011**, 25, 2867-2874	6.7	45
199	Nonlinear Analyses of Tuff Masonry Walls Strengthened with Cementitious Matrix-Grid Composites. *Journal of Composites for Construction*, **2009**, 13, 243-251	3.3	45
198	A simulated design procedure for the assessment of seismic capacity of existing reinforced concrete buildings. *Advances in Engineering Software*, **2010**, 41, 323-335	3.6	45
197	Unified theory for confinement of RC solid and hollow circular columns. *Composites Part B: Engineering*, **2008**, 39, 1151-1160	10	45
196	Experimental investigation on the influence of the aspect ratio on the in-plane/out-of-plane interaction for masonry infills in RC frames. *Engineering Structures*, **2019**, 189, 523-540	4.7	43
195	Development and urban-scale application of a simplified method for seismic fragility assessment of RC buildings. *Engineering Structures*, **2015**, 91, 40-57	4.7	43
194	Rocking response assessment of in-plane laterally-loaded masonry walls with openings. *Engineering Structures*, **2013**, 56, 1234-1248	4.7	43
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186	Structural models of critical regions in old-type r.c. frames with smooth rebars. *Engineering Structures*, **2004**, 26, 2137-2148	4.7	39

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184	Performance of School Buildings during the 2002 Molise, Italy, Earthquake. *Earthquake Spectra*, **2004**, 20, 257-270	3.4	38
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157	Fire resistance of concrete slabs reinforced with FRP bars. Part II: Experimental results and numerical simulations on the thermal field. *Composites Part B: Engineering*, **2011**, 42, 1751-1763	10	32
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145	Experimental tests of unreinforced exterior beam□column joints with plain bars. *Engineering Structures*, **2016**, 118, 178-194	4.7	30
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