

Enzo Martinelli

List of Publications by Year in descending order

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105
papers

3,580
citations

109264

35
h-index

143943

57
g-index

110
all docs

110
docs citations

110
times ranked

2417
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical and mechanical characteristics of raw jute fibers, threads and diatons. Construction and Building Materials, 2022, 326, 126903.	3.2	16
2	Artificial neural network for technical feasibility prediction of seismic retrofitting in existing RC structures. Structures, 2022, 41, 1220-1234.	1.7	12
3	A general numerical model for simulating the long-term response of two-layer composite systems in partial interaction. Composite Structures, 2021, 257, 112929.	3.1	5
4	Seismic and Thermal Retrofitting of Masonry Buildings with Fiber Reinforced Composite Systems: A State of the Art Review. International Journal of Structural Glass and Advanced Materials Research, 2021, 5, 41-67.	0.4	5
5	Autogenous Shrinkage in Structural Concrete Made with Recycled Concrete Aggregates. RILEM Bookseries, 2021, , 111-120.	0.2	0
6	Mechanical Response and Analysis of Cracking Process in Hybrid TRM Composites with Flax Textile and CurauÅ; Fibres. Polymers, 2021, 13, 715.	2.0	9
7	Closed-Form Solution Procedure for Simulating Debonding in FRP Strips Glued to a Generic Substrate Material. Fibers, 2021, 9, 22.	1.8	9
8	Tensile behavior of flax textile reinforced lime-mortar: Influence of reinforcement amount and textile impregnation. Cement and Concrete Composites, 2021, 119, 103984.	4.6	37
9	A cracked-hinge approach to modelling high performance fiber-reinforced concrete. Composite Structures, 2021, 273, 114277.	3.1	5
10	A Practice-Oriented Procedure for Seismic Reliability Assessment of RC Structures Affected by Carbonation-Induced Degradation. Applied Mechanics, 2021, 2, 820-840.	0.7	2
11	Effects of Freeze-Thaw and Wet-Dry Cycles on Tension Stiffening Behavior of Reinforced RAC Elements. Applied Sciences (Switzerland), 2021, 11, 10063.	1.3	2
12	Innovative Structural Applications of High Performance Concrete Materials in Sustainable Construction. Sustainability, 2021, 13, 12491.	1.6	0
13	Low-Cycle Fatigue of FRP Strips Glued to a Quasi-Brittle Material. Materials, 2021, 14, 7753.	1.3	3
14	Shear capacity of masonry walls externally strengthened using Flax-TRM composite systems: experimental tests and comparative assessment. Construction and Building Materials, 2020, 261, 120490.	3.2	57
15	Meso-Scale Formulation of a Cracked-Hinge Model for Hybrid Fiber-Reinforced Cement Composites. Fibers, 2020, 8, 56.	1.8	11
16	On the Distribution in Height of Base Shear Forces in Linear Static Analysis of Base-Isolated Structures. Buildings, 2020, 10, 197.	1.4	4
17	Early-Age Properties of Concrete Based on Numerical Hydration Modelling: A Parametric Analysis. Materials, 2020, 13, 2112.	1.3	6
18	Durability of Structural Recycled Aggregate Concrete Subjected to Freeze-Thaw Cycles. Sustainability, 2020, 12, 6475.	1.6	22

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19	Analytical Modeling of the Postcracking Response Observed in Hybrid Steel/Polypropylene Fiber-Reinforced Concrete. <i>Polymers</i> , 2020, 12, 1864.	2.0	2
20	Influence of Wetting and Drying Cycles on Physical and Mechanical Behavior of Recycled Aggregate Concrete. <i>Materials</i> , 2020, 13, 5675.	1.3	10
21	Soft computing techniques in structural and earthquake engineering: a literature review. <i>Engineering Structures</i> , 2020, 207, 110269.	2.6	106
22	Flax Textile Reinforced Mortars: Experimental Characterization and Structural Behavior. , 2020, , 885-892.		1
23	Retrofitting of School Building Located in Southern Italy. , 2020, , 71-94.		0
24	A low-cycle fatigue approach to predicting shear strength degradation in RC joints subjected to seismic actions. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 6061-6078.	2.3	2
25	Seismic retrofitting of existing RC buildings: a rational selection procedure based on Genetic Algorithms. <i>Structures</i> , 2019, 22, 310-326.	1.7	31
26	Influence of an Impregnation Treatment on the Morphology and Mechanical Behaviour of Flax Yarns Embedded in Hydraulic Lime Mortar. <i>Fibers</i> , 2019, 7, 30.	1.8	36
27	Tensile strength of flax fabrics to be used as reinforcement in cement-based composites: experimental tests under different environmental exposures. <i>Composites Part B: Engineering</i> , 2019, 168, 511-523.	5.9	45
28	Seismic Response of Acceleration-Sensitive Non-Structural Components in Buildings. <i>Buildings</i> , 2019, 9, 7.	1.4	7
29	Experimental Study on the Adhesion of Basalt Textile Reinforced Mortars (TRM) to Clay Brick Masonry: The Influence of Textile Density. <i>Fibers</i> , 2019, 7, 103.	1.8	18
30	Behavior of prestressed CFRP plates bonded to steel substrate: Numerical modeling and experimental validation. <i>Composite Structures</i> , 2019, 207, 974-984.	3.1	40
31	Uso de materiales reciclados en compuestos cementicios. <i>Tecnura</i> , 2019, 23, 38-51.	0.1	6
32	Influence of natural fibers characteristics on the interface mechanics with cement based matrices. <i>Composites Part B: Engineering</i> , 2018, 140, 183-196.	5.9	82
33	A modified Duvaut-Lions zero-thickness interface model for simulating the rate-dependent bond behavior of FRP-concrete joints. <i>Composites Part B: Engineering</i> , 2018, 149, 260-267.	5.9	14
34	Acoustic Emission behavior of thermally damaged Self-Compacting High Strength Fiber Reinforced Concrete. <i>Construction and Building Materials</i> , 2018, 187, 519-530.	3.2	38
35	Rheological Behavior at Fresh State of Structural Recycled Aggregate Concrete. , 2018, , 215-223.		0
36	On the mechanical response of Hybrid Fiber Reinforced Concrete with Recycled and Industrial Steel Fibers. <i>Construction and Building Materials</i> , 2017, 147, 286-295.	3.2	122

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37	A simplified method for predicting early-age stresses in slabs of steel-concrete composite beams in partial interaction. <i>Engineering Structures</i> , 2017, 140, 286-297.	2.6	21
38	Inelastic design spectra based on the actual dissipative capacity of the hysteretic response. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 97, 101-116.	1.9	2
39	Cement Replacement: Experimental Results for Concrete with Recycled Aggregates and Fly-Ash. <i>Research for Development</i> , 2017, , 47-83.	0.2	1
40	Cementitious Composites Reinforced with Recycled Fibres. <i>Research for Development</i> , 2017, , 141-195.	0.2	10
41	Modelling beam-to-column joints in seismic analysis of RC frames. <i>Earthquake and Structures</i> , 2017, 12, 119-133.	1.0	8
42	Generalised Mix Design Rules for Concrete with Recycled Aggregates. <i>Research for Development</i> , 2017, , 123-134.	0.2	0
43	State of Knowledge on Green Concrete with Recycled Aggregates and Cement Replacement. <i>Research for Development</i> , 2017, , 3-27.	0.2	1
44	A novel mix design methodology for Recycled Aggregate Concrete. <i>Construction and Building Materials</i> , 2016, 122, 362-372.	3.2	76
45	Cost-competitive hysteretic devices for seismic energy dissipation in steel bracings: experimental tests and low-cycle fatigue characterisation. <i>Construction and Building Materials</i> , 2016, 113, 57-67.	3.2	11
46	Mechanical and durability performance of sustainable structural concretes: An experimental study. <i>Cement and Concrete Composites</i> , 2016, 71, 85-96.	4.6	80
47	Experimental characterization of the post-cracking response in Hybrid Steel/Polypropylene Fiber-Reinforced Concrete. <i>Construction and Building Materials</i> , 2016, 125, 1035-1043.	3.2	133
48	Inverse identification of the bond behavior for jute fibers in cementitious matrix. <i>Composites Part B: Engineering</i> , 2016, 95, 440-452.	5.9	35
49	Cyclic shear-compression tests on masonry walls strengthened with alternative configurations of CFRP strips. <i>Bulletin of Earthquake Engineering</i> , 2016, 14, 1695-1720.	2.3	17
50	Nonlinear static analyses based on either inelastic or elastic spectra with equivalent viscous damping: A parametric comparison. <i>Engineering Structures</i> , 2015, 88, 241-250.	2.6	15
51	Experimental and numerical characterization of the bond behavior of steel fibers recovered from waste tires embedded in cementitious matrices. <i>Cement and Concrete Composites</i> , 2015, 62, 146-155.	4.6	74
52	An experimental study on the post-cracking behaviour of Hybrid Industrial/Recycled Steel Fibre-Reinforced Concrete. <i>Construction and Building Materials</i> , 2015, 94, 290-298.	3.2	121
53	A simplified procedure for Nonlinear Static analysis of masonry infilled RC frames. <i>Engineering Structures</i> , 2015, 101, 591-608.	2.6	28
54	A Unified Theoretical Model for the Monotonic and Cyclic Response of FRP Strips Glued to Concrete. <i>Polymers</i> , 2014, 6, 370-381.	2.0	47

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55	Steel bracing configurations for seismic retrofitting of a reinforced concrete frame. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2014, 167, 54-65.	0.4	9
56	RC Beams Strengthened with Mechanically Fastened Composites: Experimental Results and Numerical Modeling. Polymers, 2014, 6, 613-633.	2.0	13
57	Prestressed CFRP Strips with Gradient Anchorage for Structural Concrete Retrofitting: Experiments and Numerical Modeling. Polymers, 2014, 6, 114-131.	2.0	45
58	A 1D finite element model for the flexural behaviour of RC beams strengthened with MF-FRP strips. Composite Structures, 2014, 107, 190-204.	3.1	12
59	Structural concrete made with recycled aggregates: Hydration process and compressive strength models. Mechanics Research Communications, 2014, 58, 139-145.	1.0	20
60	Alternative processing procedures for recycled aggregates in structural concrete. Construction and Building Materials, 2014, 69, 124-132.	3.2	208
61	Compressive strength and hydration processes of concrete with recycled aggregates. Cement and Concrete Research, 2014, 56, 203-212.	4.6	98
62	Seismic response of masonry infilled RC frames: practice-oriented models and open issues. Earthquake and Structures, 2014, 6, 409-436.	1.0	15
63	A fracture-based interface model for simulating the bond behaviour of FRP strips glued to a brittle substrate. Composite Structures, 2013, 99, 397-403.	3.1	20
64	Numerical calibration of bond law for GFRP bars embedded in steel fibre-reinforced self-compacting concrete. Composites Part B: Engineering, 2013, 50, 403-412.	5.9	32
65	Seismic Capacity Design of RC frames and environment-induced degradation of materials: Any concern?. Engineering Structures, 2013, 52, 466-477.	2.6	7
66	Analysis and design of RC structures strengthened with mechanically fastened FRP laminates: A review. Composites Part B: Engineering, 2013, 55, 386-399.	5.9	34
67	Physical properties and mechanical behaviour of concrete made with recycled aggregates and fly ash. Construction and Building Materials, 2013, 47, 547-559.	3.2	154
68	A numerical recipe for modelling hydration and heat flow in hardening concrete. Cement and Concrete Composites, 2013, 40, 48-58.	4.6	55
69	Experimental investigation of the mechanical connection between FRP laminates and concrete. Composites Part B: Engineering, 2013, 45, 341-355.	5.9	35
70	Experimental study on bond performance of GFRP bars in self-compacting steel fiber reinforced concrete. Composite Structures, 2013, 95, 202-212.	3.1	117
71	Design by testing procedure for intermediate debonding in EBR FRP strengthened RC beams. Engineering Structures, 2013, 46, 147-154.	2.6	41
72	Rio 2016 sustainable construction commitments lead to new developments in recycled aggregate concrete. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2013, 166, 28-35.	0.3	5

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73	Indirect Identification Method of Bilinear Interface Laws for FRP Bonded on a Concrete Substrate. <i>Journal of Composites for Construction</i> , 2012, 16, 171-184.	1.7	28
74	Shear-Flexible Steel-Concrete Composite Beams in Partial Interaction: Closed-Form "Exact" Expression of the Stiffness Matrix. <i>Journal of Engineering Mechanics - ASCE</i> , 2012, 138, 151-163.	1.6	20
75	A unified formulation for simulating the bond behaviour of fibres in cementitious materials. <i>Materials & Design</i> , 2012, 42, 204-213.	5.1	37
76	Fracture behavior of concrete beams reinforced with mixed long/short steel fibers. <i>Construction and Building Materials</i> , 2012, 37, 832-840.	3.2	69
77	Capacity models for shear strength of exterior joints in RC frames: state-of-the-art and synoptic examination. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 967-983.	2.3	39
78	Capacity models for shear strength of exterior joints in RC frames: experimental assessment and recalibration. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 985-1007.	2.3	25
79	Effect of curing conditions on strength development in an epoxy resin for structural strengthening. <i>Composites Part B: Engineering</i> , 2012, 43, 398-410.	5.9	95
80	Zero-thickness interface model formulation for failure behavior of fiber-reinforced cementitious composites. <i>Computers and Structures</i> , 2012, 98-99, 23-32.	2.4	60
81	Inverse identification of a bearing-stress-interface-slip relationship in mechanically fastened FRP laminates. <i>Composite Structures</i> , 2012, 94, 2548-2560.	3.1	22
82	Bond behaviour of FRP strips glued on masonry: Experimental investigation and empirical formulation. <i>Construction and Building Materials</i> , 2012, 31, 353-363.	3.2	41
83	A fully-analytical approach for modelling the response of FRP plates bonded to a brittle substrate. <i>International Journal of Solids and Structures</i> , 2012, 49, 2291-2300.	1.3	65
84	Dimensionless formulation and comparative study of analytical models for composite beams in partial interaction. <i>Journal of Constructional Steel Research</i> , 2012, 75, 21-31.	1.7	28
85	Interface model for fracture behaviour of fiber-reinforced cementitious composites (FRCCs). <i>European Journal of Environmental and Civil Engineering</i> , 2011, 15, 1339-1359.	1.0	3
86	Modeling in-plane and out-of-plane displacement fields in pull-off tests on FRP strips. <i>Engineering Structures</i> , 2011, 33, 3715-3725.	2.6	52
87	Derivation of the exact stiffness matrix for a two-layer Timoshenko beam element with partial interaction. <i>Engineering Structures</i> , 2011, 33, 298-307.	2.6	71
88	Masonry columns confined by composite materials: Experimental investigation. <i>Composites Part B: Engineering</i> , 2011, 42, 692-704.	5.9	72
89	Masonry columns confined by composite materials: Design formulae. <i>Composites Part B: Engineering</i> , 2011, 42, 705-716.	5.9	47
90	Interface model for fracture behaviour of fiber-reinforced cementitious composites (FRCCs). <i>European Journal of Environmental and Civil Engineering</i> , 2011, 15, 1339-1359.	1.0	6

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91	Steel-concrete composite beams in partial interaction: Closed-form "exact" expression of the stiffness matrix and the vector of equivalent nodal forces. <i>Engineering Structures</i> , 2010, 32, 2744-2754.	2.6	35
92	Shear capacity of masonry walls externally strengthened by a cement-based composite material: An experimental campaign. <i>Construction and Building Materials</i> , 2010, 24, 84-93.	3.2	97
93	Modelling and verification of response of RC slabs strengthened in flexure with mechanically fastened FRP laminates. <i>Magazine of Concrete Research</i> , 2010, 62, 593-605.	0.9	23
94	Meso- and macroscopic models for fiber-reinforced concrete. , 2010, , 241-250.		1
95	Direct versus Indirect Method for Identifying FRP-to-Concrete Interface Relationships. <i>Journal of Composites for Construction</i> , 2009, 13, 226-233.	1.7	37
96	Formulation and validation of a theoretical model for intermediate debonding in FRP-strengthened RC beams. <i>Composites Part B: Engineering</i> , 2008, 39, 645-655.	5.9	34
97	Analysis of steel-concrete composite PR-frames in partial shear interaction: A numerical model and some applications. <i>Engineering Structures</i> , 2008, 30, 1178-1186.	2.6	19
98	Comparative Application of Capacity Models for Seismic Vulnerability Evaluation of Existing RC Structures. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	1
99	Shear Connection Nonlinearity and Deflections of Steel-Concrete Composite Beams: A Simplified Method. <i>Journal of Structural Engineering</i> , 2003, 129, 12-20.	1.7	59
100	Steel and concrete composite beams with flexible shear connection: "exact" analytical expression of the stiffness matrix and applications. <i>Computers and Structures</i> , 2002, 80, 1001-1009.	2.4	112
101	On the Behavior of FRP-to-concrete Adhesive Interface: Theoretical Models and Experimental Results. , 0, , .		2
102	An Overview of the Current Code Provisions on the Seismic Response of Acceleration-Sensitive Non-Structural Components in Buildings. <i>Applied Mechanics and Materials</i> , 0, 847, 273-280.	0.2	6
103	A Novel Conceptual Approach for Predicting the Mechanical Properties of Recycled Aggregate Concrete. <i>Applied Mechanics and Materials</i> , 0, 847, 156-165.	0.2	0
104	Mechanical Behaviour of Masonry Panels Strengthened by Flax TRM Systems. <i>Key Engineering Materials</i> , 0, 817, 427-434.	0.4	3
105	Natural Fibers Reinforced Mortars: Composition and Mechanical Properties. <i>Key Engineering Materials</i> , 0, 913, 149-153.	0.4	2