Luciana Restuccia

List of Publications by Year
in descending order

44 papers	809 citations	471509 17 h-index	526287 27 g-index
45 all docs	45 docs citations	45 times ranked	598 citing authors

#	Article	IF	Citations
1	Promising low cost carbon-based materials to improve strength and toughness in cement composites. Construction and Building Materials, 2016, 126, 1034-1043.	7.2	93
2	Carbonized nano/microparticles for enhanced mechanical properties and electromagnetic interference shielding of cementitious materials. Frontiers of Structural and Civil Engineering, 2016, 10, 209-213.	2.9	79
3	Improving the mechanical performance of cement composites by carbon nanotubes addition. Procedia Structural Integrity, 2017, 3, 11-17.	0.8	52
4	Type of materials, pyrolysis conditions, carbon content and size dimensions: The parameters that influence the mechanical properties of biochar cement-based composites. Theoretical and Applied Fracture Mechanics, 2019, 103, 102261.	4.7	45
5	Considerations over the Italian road bridge infrastructure safety after the Polcevera viaduct collapse: past errors and future perspectives. Frattura Ed Integrita Strutturale, 2018, 12, 400-421.	0.9	44
6	Fractal analysis of crack paths into innovative carbon-based cementitious composites. Theoretical and Applied Fracture Mechanics, 2017, 90, 133-141.	4.7	43
7	The use of Biochar to reduce the carbon footprint of cement-based materials. Procedia Structural Integrity, 2020, 26, 199-210.	0.8	43
8	Mechanical characterization of different biochar-based cement composites. Procedia Structural Integrity, 2020, 25, 226-233.	0.8	35
9	Seismic performance of exoskeleton structures. Engineering Structures, 2019, 198, 109459.	5.3	24
10	Fracture behavior of lightweight foamed concrete: The crucial role of curing conditions. Theoretical and Applied Fracture Mechanics, 2019, 103, 102297.	4.7	24
11	Nano CaCO3 particles in cement mortars towards developing a circular economy in the cement industry. Procedia Structural Integrity, 2020, 26, 155-165.	0.8	24
12	A simple optimized foam generator and a study on peculiar aspects concerning foams and foamed concrete. Construction and Building Materials, 2021, 268, 121101.	7.2	24
13	Influence of biochar additions on the fracture behavior of foamed concrete. Frattura Ed Integrita Strutturale, 2020, 14, 189-198.	0.9	24
14	Improvements in self-consolidating cementitious composites by using micro carbonized aggregates. Frattura Ed Integrita Strutturale, 2014, 8, 75-83.	0.9	23
15	New self-healing techniques for cement-based materials. Procedia Structural Integrity, 2017, 3, 253-260.	0.8	23
16	Influence of filler size on the mechanical properties of cementâ€based composites. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 797-805.	3.4	21
17	Recycled Mortars with C&D Waste. Procedia Structural Integrity, 2016, 2, 2896-2904.	0.8	18
18	Influence of pyrolysis parameters on the efficiency of the biochar as nanoparticles into cement-based composites. Procedia Structural Integrity, 2018, 13, 2132-2136.	0.8	18

#	Article	IF	Citations
19	Nanoparticles from food waste: a "green" future for traditional building materials. , 0, , .		16
20	Stability, flexural behavior and compressive strength of ultra-lightweight fiber-reinforced foamed concrete with dry density lower than 100Âkg/m3. Journal of Building Engineering, 2022, 51, 104329.	3.4	16
21	Valorisation of by-Products/Waste of Agro-Food Industry by the Pyrolysis Process. Journal of Advanced Catalysis Science and Technology, 2016, 3, 1-11.	1.0	11
22	Fracture toughness and failure mechanism of high performance concrete incorporating carbon nanotubes. Frattura Ed Integrita Strutturale, 2017, 11, 238-248.	0.9	10
23	Biochar-based cement pastes and mortars with enhanced mechanical properties. Frattura Ed Integrita Strutturale, 2020, 14, 297-316.	0.9	10
24	Feasibility and effectiveness of exoskeleton structures for seismic protection. Procedia Structural Integrity, 2018, 9, 303-310.	0.8	9
25	Crack path and fracture surface modifications in cement composites. Frattura Ed Integrita Strutturale, 2016, , .	0.9	8
26	Mortar Made of Recycled Sand from C&D. Procedia Engineering, 2015, 109, 240-247.	1.2	7
27	Strategies to increase the compressive strength of ultra-lightweight foamed concrete. Procedia Structural Integrity, 2020, 28, 1673-1678.	0.8	7
28	Investigation on the Rheological Behavior of Lightweight Foamed Concrete for 3D Printing Applications. RILEM Bookseries, 2020, , 246-254.	0.4	7
29	An investigation of the beneficial effects of adding carbon nanotubes to standard injection grout. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 119-128.	3.4	6
30	Evaluation of the mechanical properties of cements with fillers derived from the CO2 reduction of cement plants. Procedia Structural Integrity, 2019, 18, 472-483.	0.8	6
31	Design of bismuth oxide nanoparticles as lightweight aggregate in cement composites against Xâ€rays. Material Design and Processing Communications, 2019, 1, e34.	0.9	5
32	The exoskeleton: a solution for seismic retrofitting of existing buildings. Procedia Structural Integrity, 2020, 25, 294-304.	0.8	5
33	New Concepts for Next Generation of High Performance Concretes. , 2014, 3, 1760-1766.		4
34	The exoskeleton technology as a solution to seismic adjustment of existing buildings. Procedia Structural Integrity, 2020, 26, 175-186.	0.8	4
35	Modified fracture properties of cement composites with nano/micro carbonized bagasse fibers. Frattura Ed Integrita Strutturale, 2016, , .	0.9	4
36	Investigation on the fracture behavior of foamed concrete. Procedia Structural Integrity, 2019, 18, 525-531.	0.8	3

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37	TOWARDS A SUSTAINABLE AND CONTEXT-BASED APPROACH TO ANTI-SEISMIC RETROFITTING TECHNIQUES FOR VERNACULAR ADOBE BUILDINGS IN COLOMBIA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIV-M-1-2020, 1089-1096.	0.2	3
38	Anti-Seismic Retrofitting Techniques for Vernacular Adobe Buildings in Colombia: A Proposed Framework for Developing and Assessing Sustainable and Appropriate Interventions. International Journal of Architectural Heritage, 2022, 16, 923-939.	3.1	3
39	An experimental set-up for cyclic loading of concrete. Procedia Structural Integrity, 2020, 25, 413-419.	0.8	2
40	Nearly zero CO 2 cementitious composites. Material Design and Processing Communications, 2020, 2, e125.	0.9	2
41	Mechanical properties and carbon footprint of 3D-printable cement mortars with biochar additions. MATEC Web of Conferences, 2020, 323, 01017.	0.2	2
42	Biochar addition for 3DCP: a preliminary study. Procedia Structural Integrity, 2022, 41, 699-703.	0.8	2
43	Fracture properties of green mortars with recycled sand. Frattura Ed Integrita Strutturale, 2019, 13, 676-689.	0.9	0
44	Increase the fracture energy of foamed concrete: two possible solutions. Procedia Structural Integrity, 2022, 39, 229-235.	0.8	0