

Giuseppe Andrea Ferro

List of Publications by Year in descending order

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73
papers

2,317
citations

257450

24
h-index

223800

46
g-index

78
all docs

78
docs citations

78
times ranked

1780
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of carbon nanotubes structure on the mechanical behavior of cement composites. Composites Science and Technology, 2009, 69, 1985-1990.	7.8	380
2	Size effects on nominal tensile strength of concrete structures: multifractality of material ligaments and dimensional transition from order to disorder. Materiaux Et Constructions, 1995, 28, 311-317.	0.3	193
3	Size effects on tensile fracture properties: a unified explanation based on disorder and fractality of concrete microstructure. Materiaux Et Constructions, 1994, 27, 563-571.	0.3	165
4	Improvement in electromagnetic interference shielding effectiveness of cement composites using carbonaceous nano/micro inerts. Construction and Building Materials, 2015, 85, 208-216.	7.2	109
5	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
6	High performance self-consolidating cementitious composites by using micro carbonized bamboo particles. Materials & Design, 2015, 76, 223-229.	5.1	88
7	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
8	Cement-based composites containing functionalized carbon fibers. Cement and Concrete Composites, 2018, 88, 165-171.	10.7	77
9	Scale effects in uniaxially compressed concrete specimens. Magazine of Concrete Research, 1999, 51, 217-225.	2.0	61
10	Improving the mechanical performance of cement composites by carbon nanotubes addition. Procedia Structural Integrity, 2017, 3, 11-17.	0.8	52
11	The partition of unity quadrature in meshless methods. International Journal for Numerical Methods in Engineering, 2002, 54, 987-1006.	2.8	46
12	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
13	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
14	Fractal analysis of crack paths into innovative carbon-based cementitious composites. Theoretical and Applied Fracture Mechanics, 2017, 90, 133-141.	4.7	43
15	The use of Biochar to reduce the carbon footprint of cement-based materials. Procedia Structural Integrity, 2020, 26, 199-210.	0.8	43
16	Quasibrittle fracture scaling and size effect. Materials and Structures/Materiaux Et Constructions, 2004, 37, 547-568.	3.1	40
17	Seismic Vulnerability Analysis of Masonry Churches in Piemonte after 2003 Valle Scrivia Earthquake: Post-event Screening and Situation 17 Years Later. International Journal of Architectural Heritage, 2022, 16, 717-745.	3.1	39
18	New cementitious composite building material with enhanced toughness. Theoretical and Applied Fracture Mechanics, 2015, 76, 67-74.	4.7	36

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19	Mechanical characterization of different biochar-based cement composites. <i>Procedia Structural Integrity</i> , 2020, 25, 226-233.	0.8	35
20	Experimental Investigation on Use of Wheat Straw Ash and Bentonite in Self-Compacting Cementitious System. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-11.	1.8	33
21	Scaling behaviour and dual renormalization of experimental tensile softening responses. <i>Materials and Structures/Materiaux Et Constructions</i> , 1998, 31, 303-309.	3.1	32
22	On dissipated energy density in compression for concrete. <i>Engineering Fracture Mechanics</i> , 2006, 73, 1510-1530.	4.3	30
23	A new explanation for size effects on the flexural strength of concrete. <i>Magazine of Concrete Research</i> , 1997, 49, 45-53.	2.0	28
24	Seismic performance of exoskeleton structures. <i>Engineering Structures</i> , 2019, 198, 109459.	5.3	24
25	Nano CaCO ₃ particles in cement mortars towards developing a circular economy in the cement industry. <i>Procedia Structural Integrity</i> , 2020, 26, 155-165.	0.8	24
26	Influence of biochar additions on the fracture behavior of foamed concrete. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 189-198.	0.9	24
27	Carbon nanotubes cement composites. <i>Frattura Ed Integrita Strutturale</i> , 2011, 5, 34-44.	0.9	23
28	Improvements in self-consolidating cementitious composites by using micro carbonized aggregates. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 75-83.	0.9	23
29	New self-healing techniques for cement-based materials. <i>Procedia Structural Integrity</i> , 2017, 3, 253-260.	0.8	23
30	An augmented Lagrangian element-free (ALEF) approach for crack discontinuities. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001, 191, 941-957.	6.6	22
31	Shear deformability of thin-walled beams with arbitrary cross sections. <i>International Journal for Numerical Methods in Engineering</i> , 1992, 35, 283-306.	2.8	21
32	Scale dependence of tensile strength of concrete specimens: a multifractal approach. <i>Magazine of Concrete Research</i> , 1998, 50, 237-246.	2.0	21
33	Influence of filler size on the mechanical properties of cement-based composites. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 797-805.	3.4	21
34	Recycled Mortars with C&D Waste. <i>Procedia Structural Integrity</i> , 2016, 2, 2896-2904.	0.8	18
35	Influence of pyrolysis parameters on the efficiency of the biochar as nanoparticles into cement-based composites. <i>Procedia Structural Integrity</i> , 2018, 13, 2132-2136.	0.8	18
36	Size effects on flexural response of reinforced concrete elements with a nonlinear matrix. <i>Engineering Fracture Mechanics</i> , 2003, 70, 995-1013.	4.3	17

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37	The partition of unity quadrature in element-free crack modelling. Computers and Structures, 2003, 81, 1783-1794.	4.4	17
38	Analysis of general quadrilateral orthotropic thick plates with arbitrary boundary conditions by the Rayleigh-Ritz method. International Journal for Numerical Methods in Engineering, 2002, 54, 1087-1102.	2.8	16
39	Nanoparticles from food waste: a "green" future for traditional building materials. , 0, , .		16
40	The nominal tensile strength of disordered materials: A statistical fracture mechanics approach. Engineering Fracture Mechanics, 1997, 58, 421-435.	4.3	14
41	Effect of Specimen Size on the Dissipated Energy Density in Compression. Journal of Applied Mechanics, Transactions ASME, 2008, 75, .	2.2	12
42	Fracture toughness and failure mechanism of high performance concrete incorporating carbon nanotubes. Frattura Ed Integrita Strutturale, 2017, 11, 238-248.	0.9	10
43	Biochar-based cement pastes and mortars with enhanced mechanical properties. Frattura Ed Integrita Strutturale, 2020, 14, 297-316.	0.9	10
44	Scale Effects and Transitional Failure Phenomena of Reinforced Concrete Beams in Flexure. European Structural Integrity Society, 1999, , 1-30.	0.1	9
45	Synthesis, characterization and applications of nano/micro carbonaceous inerts: A review. Procedia Structural Integrity, 2018, 9, 116-125.	0.8	9
46	Feasibility and effectiveness of exoskeleton structures for seismic protection. Procedia Structural Integrity, 2018, 9, 303-310.	0.8	9
47	Multilevel bridged crack model for high-performance concretes. Theoretical and Applied Fracture Mechanics, 2002, 38, 177-190.	4.7	8
48	An augmented lagrangian approach to material discontinuities in meshless methods. Computational Mechanics, 2006, 37, 207-220.	4.0	8
49	Crack path and fracture surface modifications in cement composites. Frattura Ed Integrita Strutturale, 2016, , .	0.9	8
50	Double brittle-to-ductile transition in bending of fibre reinforced concrete beams with rebars. International Journal for Numerical and Analytical Methods in Geomechanics, 2004, 28, 737-756.	3.3	7
51	Minimum reinforcement in concrete structures and material/structural instability. International Journal of Fracture, 2007, 146, 213-231.	2.2	7
52	A multiscale approach for the seismic analysis of concrete gravity dams. Computers and Structures, 2013, 122, 230-238.	4.4	7
53	Mortar Made of Recycled Sand from C&D. Procedia Engineering, 2015, 109, 240-247.	1.2	7
54	Strategies to increase the compressive strength of ultra-lightweight foamed concrete. Procedia Structural Integrity, 2020, 28, 1673-1678.	0.8	7

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55	Investigation on the Rheological Behavior of Lightweight Foamed Concrete for 3D Printing Applications. RILEM Bookseries, 2020, , 246-254.	0.4	7
56	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
57	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
58	Definition of inelastic displacement demand spectra for precast industrial facilities with friction and fixed beam-to-column joints. Soil Dynamics and Earthquake Engineering, 2020, 128, 105871.	3.8	6
59	Design of bismuth oxide nanoparticles as lightweight aggregate in cement composites against X-rays. Material Design and Processing Communications, 2019, 1, e34.	0.9	5
60	Stochastic Multi-objective Optimisation of Exoskeleton Structures. Journal of Optimization Theory and Applications, 2020, 187, 822-841.	1.5	5
61	The exoskeleton: a solution for seismic retrofitting of existing buildings. Procedia Structural Integrity, 2020, 25, 294-304.	0.8	5
62	Seismic Analysis of Concrete Gravity Dams: Nonlinear Fracture Mechanics Models and Size-Scale Effects. Applied Mechanics and Materials, 0, 82, 374-379.	0.2	4
63	The exoskeleton technology as a solution to seismic adjustment of existing buildings. Procedia Structural Integrity, 2020, 26, 175-186.	0.8	4
64	Modified fracture properties of cement composites with nano/micro carbonized bagasse fibers. Frattura Ed Integrita Strutturale, 2016, , .	0.9	4
65	Investigation on the fracture behavior of foamed concrete. Procedia Structural Integrity, 2019, 18, 525-531.	0.8	3
66	Strain localization in a continuum as an instability event. International Journal of Fracture, 2006, 140, 183-188.	2.2	2
67	An experimental set-up for cyclic loading of concrete. Procedia Structural Integrity, 2020, 25, 413-419.	0.8	2
68	Nearly zero CO 2 cementitious composites. Material Design and Processing Communications, 2020, 2, e125.	0.9	2
69	Mechanical properties and carbon footprint of 3D-printable cement mortars with biochar additions. MATEC Web of Conferences, 2020, 323, 01017.	0.2	2
70	Biochar addition for 3DCP: a preliminary study. Procedia Structural Integrity, 2022, 41, 699-703.	0.8	2
71	ANOMALOUS AND IRREGULAR MECHANICAL BEHAVIOUR IN HETEROGENEOUS MATERIALS: SNAP-BACK INSTABILITIES AND FRACTAL CRACKING. Journal of the Mechanical Behavior of Materials, 2000, 11, 23-30.	1.8	0
72	Theorems of the Alternative in Unilateral Structural Mechanics. , 1991, , 183-197.		0

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73	Increase the fracture energy of foamed concrete: two possible solutions. Procedia Structural Integrity, 2022, 39, 229-235.	0.8	0