

Pietro Cornetti

List of Publications by Year in descending order

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90
papers

3,196
citations

159585

30
h-index

155660

55
g-index

91
all docs

91
docs citations

91
times ranked

1488
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-local criteria for the borehole problem: Gradient Elasticity versus Finite Fracture Mechanics. <i>Meccanica</i> , 2022, 57, 871-883.	2.0	7
2	Penny-shaped cracks: A comparison between FFM and CZM. <i>Procedia Structural Integrity</i> , 2022, 41, 505-509.	0.8	0
3	Finite Fracture Mechanics and Cohesive Crack Model: Size effects through a unified formulation. <i>Frattura Ed Integrita Strutturale</i> , 2022, 16, 496-509.	0.9	5
4	Mode I fatigue limit of notched structures: A deeper insight into Finite Fracture Mechanics. <i>International Journal of Fracture</i> , 2021, 227, 1-13.	2.2	8
5	Experimental and theoretical characterization of mixed mode brittle failure from square holes. <i>International Journal of Fracture</i> , 2021, 228, 33-43.	2.2	10
6	Size-effect on the apparent tensile strength of brittle materials with spherical cavities. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 116, 103120.	4.7	9
7	Analytical Modeling of Debonding Mechanism for Long and Short Bond Lengths in Direct Shear Tests Accounting for Residual Strength. <i>Materials</i> , 2021, 14, 6690.	2.9	3
8	An Analytical Study for Debonding in Single-lap Shear Test by Considering the Residual Strength. <i>Procedia Structural Integrity</i> , 2021, 33, 982-988.	0.8	1
9	Comparison between two nonlocal criteria: A case study on pressurized holes. <i>Procedia Structural Integrity</i> , 2021, 33, 456-464.	0.8	0
10	Spherical voids by finite fracture mechanics. <i>Procedia Structural Integrity</i> , 2021, 33, 788-794.	0.8	1
11	Interface crack model using finite fracture mechanics applied to the double pull-push shear test. <i>International Journal of Solids and Structures</i> , 2020, 188-189, 56-73.	2.7	12
12	Fatigue limit: Crack and notch sensitivity by Finite Fracture Mechanics. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 105, 102407.	4.7	26
13	Mode I fatigue limit of V- and U-notches. <i>Procedia Structural Integrity</i> , 2020, 28, 446-451.	0.8	0
14	A numerical implementation of the Coupled Criterion of Finite Fracture Mechanics for elastic interfaces. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 108, 102607.	4.7	11
15	Finite fracture mechanics and cohesive crack model: Weight functions vs. cohesive laws. <i>International Journal of Solids and Structures</i> , 2019, 156-157, 126-136.	2.7	24
16	Penny-shaped cracks by Finite Fracture Mechanics. <i>International Journal of Fracture</i> , 2019, 219, 153-159.	2.2	22
17	Fatigue crack onset by Finite Fracture Mechanics. <i>Procedia Structural Integrity</i> , 2019, 18, 501-506.	0.8	2
18	Finite Fracture Mechanics crack initiation from a circular hole. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 1627-1636.	3.4	37

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19	Brazilian disk tests: Circular holes and size effects. <i>Procedia Structural Integrity</i> , 2018, 13, 596-600.	0.8	0
20	Crack onset and propagation stability from a circular hole under biaxial loading. <i>International Journal of Fracture</i> , 2018, 214, 97-104.	2.2	31
21	Fractional Viscoelastic Modeling of Antirutting Response of Bituminous Binders. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	2.9	10
22	Nonlocal Diffusion in Porous Media: A Spatial Fractional Approach. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	2.9	14
23	Mode-I debonding of a double cantilever beam: A comparison between cohesive crack modeling and Finite Fracture Mechanics. <i>International Journal of Solids and Structures</i> , 2017, 124, 57-72.	2.7	35
24	Fatigue crack growth analysis of drill pipes during rotary drilling operations by the multiple reference state weight function approach. <i>Engineering Failure Analysis</i> , 2017, 74, 11-34.	4.0	10
25	Size effects on brittle fracture of Brazilian disk samples containing a circular hole. <i>Engineering Fracture Mechanics</i> , 2017, 186, 496-503.	4.3	34
26	A coupled FFM model to interpret fracture toughness values for brittle materials. <i>Procedia Structural Integrity</i> , 2016, 2, 1983-1990.	0.8	1
27	Influence of a neighbour fibre on the onset and growth of a fibre-matrix debond under biaxial loading. A study by Finite Fracture Mechanics at linear elastic interfaces. <i>Procedia Structural Integrity</i> , 2016, 2, 2022-2029.	0.8	3
28	Crack deflection in brittle materials by Finite Fracture Mechanics. <i>Procedia Structural Integrity</i> , 2016, 2, 1975-1982.	0.8	0
29	T-stress effects on crack deflection: Straight vs. curved crack advance. <i>European Journal of Mechanics, A/Solids</i> , 2016, 60, 52-57.	3.7	19
30	Short cracks and V-notches: Finite Fracture Mechanics vs. Cohesive Crack Model. <i>Engineering Fracture Mechanics</i> , 2016, 168, 2-12.	4.3	40
31	Crack onset and propagation at fibre-matrix elastic interfaces under biaxial loading using finite fracture mechanics. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 82, 267-278.	7.6	26
32	The use of fractional calculus to model the experimental creep-recovery behavior of modified bituminous binders. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 45-55.	3.1	23
33	Brittle Materials and Stress Concentrations: are they Able to withstand?. <i>Procedia Engineering</i> , 2015, 109, 296-302.	1.2	2
34	An improved Finite Fracture Mechanics approach to blunt V-notch brittle fracture mechanics: Experimental verification on ceramic, metallic, and plastic materials. <i>Theoretical and Applied Fracture Mechanics</i> , 2015, 78, 20-24.	4.7	29
35	An analytical cohesive crack modeling approach to the edge debonding failure of FRP-plated beams. <i>International Journal of Solids and Structures</i> , 2015, 53, 92-106.	2.7	31
36	T-stress effects on crack kinking in Finite Fracture Mechanics. <i>Engineering Fracture Mechanics</i> , 2014, 132, 169-176.	4.3	26

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37	Cracks at rounded V-notch tips: an analytical expression for the stress intensity factor. <i>International Journal of Fracture</i> , 2014, 187, 285-291.	2.2	16
38	Nonlocal elasticity: an approach based on fractional calculus. <i>Meccanica</i> , 2014, 49, 2551-2569.	2.0	62
39	Crack Onset and Propagation in Composite Materials Using Finite Fracture Mechanics on Elastic Interfaces. , 2014, 3, 1365-1370.		9
40	Analytical Stress Intensity Factors for Cracks at Blunted V-notches. , 2014, 3, 738-743.		4
41	V-notched elements under mode II loading conditions. <i>Structural Engineering and Mechanics</i> , 2014, 49, 499-508.	1.0	22
42	Diffusion problems on fractional nonlocal media. <i>Open Physics</i> , 2013, 11, .	1.7	6
43	Mode mixity and size effect in V-notched structures. <i>International Journal of Solids and Structures</i> , 2013, 50, 1562-1582.	2.7	29
44	Wave propagation in nonlocal elastic continua modelled by a fractional calculus approach. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 63-74.	3.3	71
45	A Finite Fracture Mechanics approach to V-notched elements subjected to mixed-mode loading. <i>Engineering Fracture Mechanics</i> , 2013, 97, 216-226.	4.3	78
46	Wave propagation in fractional nonlocal elastic continua. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 599-604.	0.4	0
47	A. Konstantinidis, P. Cornetti, N. Pugno and E.C. Aifantis, Application of Gradient Theory and Quantized Fracture Mechanics in Snow Avalanches, <i>J. Mech. Behav. Mater.</i> 19, 39-47, 2009. <i>Journal of the Mechanical Behavior of Materials</i> , 2012, 20, 107-109.	1.8	1
48	A Finite Fracture Mechanics approach to the asymptotic behaviour of U-shaped notched structures. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2012, 35, 451-457.	3.4	36
49	Finite Fracture Mechanics at elastic interfaces. <i>International Journal of Solids and Structures</i> , 2012, 49, 1022-1032.	2.7	65
50	A fractional calculus approach to nonlocal elasticity. <i>European Physical Journal: Special Topics</i> , 2011, 193, 193-204.	2.6	114
51	Brittle failures at rounded V-notches: a finite fracture mechanics approach. <i>International Journal of Fracture</i> , 2011, 172, 1-8.	2.2	42
52	Modelling the FRP-concrete delamination by means of an exponential softening law. <i>Engineering Structures</i> , 2011, 33, 1988-2001.	5.3	84
53	The problem of the critical angle for edge and center V-notched structures. <i>European Journal of Mechanics, A/Solids</i> , 2011, 30, 281-285.	3.7	10
54	An asymptotic matching approach to shallow-notched structural elements. <i>Engineering Fracture Mechanics</i> , 2010, 77, 348-358.	4.3	5

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55	On the most dangerous V-notch. International Journal of Solids and Structures, 2010, 47, 887-893.	2.7	28
56	Anisotropic linear elastic properties of fractal-like composites. Physical Review E, 2010, 82, 056114.	2.1	1
57	Fractional calculus in solid mechanics: local versus non-local approach. Physica Scripta, 2009, T136, 014003.	2.5	29
58	Application of Gradient Theory and Quantized Fracture Mechanics in Snow Avalanches. Journal of the Mechanical Behavior of Materials, 2009, 19, 39-48.	1.8	3
59	Strength of hierarchical materials. Microsystem Technologies, 2009, 15, 27-31.	2.0	2
60	Static-kinematic fractional operators for fractal and non-local solids. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2009, 89, 207-217.	1.6	41
61	Edge debonding in FRP strengthened beams: Stress versus energy failure criteria. Engineering Structures, 2009, 31, 2436-2447.	5.3	65
62	Towards a Unified Approach for the Analysis of Failure Modes in FRP-Retrofitted Concrete Beams. Advances in Structural Engineering, 2009, 12, 715-729.	2.4	14
63	Generalized fracture toughness for specimens with re-entrant corners: Experiments vs. theoretical predictions. Structural Engineering and Mechanics, 2009, 32, 609-620.	1.0	25
64	A finite fracture mechanics approach to structures with sharp V-notches. Engineering Fracture Mechanics, 2008, 75, 1736-1752.	4.3	172
65	Triggering of dry snow slab avalanches: stress versus fracture mechanical approach. Cold Regions Science and Technology, 2008, 53, 170-178.	3.5	48
66	Fractals to Model Hierarchical Biomaterials. Advances in Science and Technology, 2008, 58, 54-59.	0.2	3
67	On the Impossibility of Separating Nanotubes in a Bundle by Longitudinal Tension. Journal of Adhesion, 2008, 84, 439-444.	3.0	3
68	New unified laws in fatigue: From the Wöhler's to the Paris regime. Engineering Fracture Mechanics, 2007, 74, 595-601.	4.3	44
69	Comments on "On the cause of size effect on structural strength fractal or energetic-statistical" by Bažant & Yavari [Engng Fract Mech 2005;72:1-31]. Engineering Fracture Mechanics, 2007, 74, 2892-2896.	4.3	13
70	Finite fracture mechanics: A coupled stress and energy failure criterion. Engineering Fracture Mechanics, 2006, 73, 2021-2033.	4.3	264
71	A generalized Paris law for fatigue crack growth. Journal of the Mechanics and Physics of Solids, 2006, 54, 1333-1349.	4.8	269
72	Scaling Laws and Multiscale Approach in the Mechanics of Heterogeneous and Disordered Materials. Applied Mechanics Reviews, 2006, 59, 283-305.	10.1	41

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73	The fracture mechanics of finite crack extension. <i>Engineering Fracture Mechanics</i> , 2005, 72, 1021-1038.	4.3	231
74	Size effect upon grained materials tensile strength: The increase of the statistical dispersion at the smaller scales. <i>Theoretical and Applied Fracture Mechanics</i> , 2005, 44, 192-199.	4.7	13
75	A stereological analysis of aggregate grading and size effect on concrete tensile strength. <i>International Journal of Fracture</i> , 2004, 128, 233-242.	2.2	23
76	The elastic problem for fractal media: basic theory and finite element formulation. <i>Computers and Structures</i> , 2004, 82, 499-508.	4.4	48
77	A fractal theory for the mechanics of elastic materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 365, 235-240.	5.6	36
78	A disordered microstructure material model based on fractal geometry and fractional calculus. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2004, 84, 128-135.	1.6	27
79	A mesoscopic theory of damage and fracture in heterogeneous materials. <i>Theoretical and Applied Fracture Mechanics</i> , 2004, 41, 43-50.	4.7	9
80	Calculation of the tensile and flexural strength of disordered materials using fractional calculus. <i>Chaos, Solitons and Fractals</i> , 2004, 21, 623-632.	5.1	72
81	Numerical modelization of disordered media via fractional calculus. <i>Computational Materials Science</i> , 2004, 30, 155-162.	3.0	4
82	On the mechanics of quasi-brittle materials with a fractal microstructure. <i>Engineering Fracture Mechanics</i> , 2003, 70, 2321-2349.	4.3	94
83	Cohesive crack model description of ductile to brittle size-scale transition: dimensional analysis vs. renormalization group theory. <i>Engineering Fracture Mechanics</i> , 2003, 70, 1809-1839.	4.3	64
84	Size Effects on Concrete Tensile Fracture Properties: An Interpretation of the Fractal Approach Based on the Aggregate Grading. <i>Journal of the Mechanical Behavior of Materials</i> , 2002, 13, 233-246.	1.8	20
85	A fractional calculus approach to the description of stress and strain localization in fractal media. <i>Chaos, Solitons and Fractals</i> , 2002, 13, 85-94.	5.1	131
86	A scale-invariant cohesive crack model for quasi-brittle materials. <i>Engineering Fracture Mechanics</i> , 2002, 69, 207-217.	4.3	74
87	Static-kinematic duality and the principle of virtual work in the mechanics of fractal media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001, 191, 3-19.	6.6	98
88	SPECIAL FACTORS IN SOME COMBINATORIAL STRUCTURES. , 2000, , .		0
89	Nonlinear consolidation of soil modeling and solution techniques. <i>Mathematical and Computer Modelling</i> , 1994, 20, 1-12.	2.0	20
90	Blunt V-Notch Brittle Fracture: An Improved Finite Fracture Mechanics Approach. <i>Advanced Materials Research</i> , 0, 1105, 237-244.	0.3	1