Alberto Sapora

List of Publications by Year in descending order

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63	1,351	304743	361022
papers	citations	22 h-index	35 g-index

65	65	65	620
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Non-local criteria for the borehole problem: Gradient Elasticity versus Finite Fracture Mechanics. Meccanica, 2022, 57, 871-883.	2.0	7
2	Penny-shaped cracks: A comparison between FFM and CZM. Procedia Structural Integrity, 2022, 41, 505-509.	0.8	0
3	Finite Fracture Mechanics and Cohesive Crack Model: Size effects through a unified formulation. Frattura Ed Integrita Strutturale, 2022, 16, 496-509.	0.9	5
4	Mode I fatigue limit of notched structures: A deeper insight into Finite Fracture Mechanics. International Journal of Fracture, 2021, 227, 1-13.	2.2	8
5	Experimental and theoretical characterization of mixed mode brittle failure from square holes. International Journal of Fracture, 2021, 228, 33-43.	2.2	10
6	A FFM analysis on mode III static and fatigue crack initiation from sharp V-notches. Engineering Fracture Mechanics, 2021, 258, 108063.	4.3	4
7	Size-effect on the apparent tensile strength of brittle materials with spherical cavities. Theoretical and Applied Fracture Mechanics, 2021, 116, 103120.	4.7	9
8	Analytical Modeling of Debonding Mechanism for Long and Short Bond Lengths in Direct Shear Tests Accounting for Residual Strength. Materials, 2021, 14, 6690.	2.9	3
9	An Analytical Study for Debonding in Single-lap Shear Test by Considering the Residual Strength. Procedia Structural Integrity, 2021, 33, 982-988.	0.8	1
10	Comparison between two nonlocal criteria: A case study on pressurized holes. Procedia Structural Integrity, 2021, 33, 456-464.	0.8	0
11	Spherical voids by finite fracture mechanics. Procedia Structural Integrity, 2021, 33, 788-794.	0.8	1
12	Nonlinear implementation of Finite Fracture Mechanics: A case study on notched Brazilian disk samples. International Journal of Non-Linear Mechanics, 2020, 119, 103245.	2.6	20
13	Fatigue limit: Crack and notch sensitivity by Finite Fracture Mechanics. Theoretical and Applied Fracture Mechanics, 2020, 105, 102407.	4.7	26
14	Mode I fatigue limit of V- and U-notches. Procedia Structural Integrity, 2020, 28, 446-451.	0.8	0
15	Brittle Failure of Nanoscale Notched Silicon Cantilevers: A Finite Fracture Mechanics Approach. Applied Sciences (Switzerland), 2020, 10, 1640.	2.5	11
16	Finite fracture mechanics and cohesive crack model: Weight functions vs. cohesive laws. International Journal of Solids and Structures, 2019, 156-157, 126-136.	2.7	24
17	Penny-shaped cracks by Finite Fracture Mechanics. International Journal of Fracture, 2019, 219, 153-159.	2.2	22
18	Fatigue crack onset by Finite Fracture Mechanics. Procedia Structural Integrity, 2019, 18, 501-506.	0.8	2

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19	Finite Fracture Mechanics Assessment in Moderate and Large Scale Yielding Regimes. Metals, 2019, 9, 602.	2.3	11
20	Finite Fracture Mechanics crack initiation from a circular hole. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1627-1636.	3.4	37
21	Brazilian disk tests: Circular holes and size effects. Procedia Structural Integrity, 2018, 13, 596-600.	0.8	0
22	Crack onset and propagation stability from a circular hole under biaxial loading. International Journal of Fracture, 2018, 214, 97-104.	2.2	31
23	Fractional Viscoelastic Modeling of Antirutting Response of Bituminous Binders. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	10
24	Nonlocal Diffusion in Porous Media: A Spatial Fractional Approach. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	14
25	Size effects on brittle fracture of Brazilian disk samples containing a circular hole. Engineering Fracture Mechanics, 2017, 186, 496-503.	4.3	34
26	Finite fracture mechanics predictions on the apparent fracture toughness of asâ€quenched Charpy Vâ€type AISI 4340 steel specimens. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 949-958.	3.4	7
27	A coupled FFM model to interpret fracture toughness values for brittle materials. Procedia Structural Integrity, 2016, 2, 1983-1990.	0.8	1
28	Crack deflection in brittle materials by Finite Fracture Mechanics. Procedia Structural Integrity, 2016, 2, 1975-1982.	0.8	0
29	T -stress effects on crack deflection: Straight vs. curved crack advance. European Journal of Mechanics, A/Solids, 2016, 60, 52-57.	3.7	19
30	Short cracks and V-notches: Finite Fracture Mechanics vs. Cohesive Crack Model. Engineering Fracture Mechanics, 2016, 168, 2-12.	4.3	40
31	Finite Fracture Mechanics: a deeper investigation on negative T-stress effects. International Journal of Fracture, 2016, 197, 111-118.	2.2	6
32	The use of fractional calculus to model the experimental creep-recovery behavior of modified bituminous binders. Materials and Structures/Materiaux Et Constructions, 2016, 49, 45-55.	3.1	23
33	Brittle Materials and Stress Concentrations: are they Able to withstand?. Procedia Engineering, 2015, 109, 296-302.	1.2	2
34	An Accurate Thermoviscoelastic Rheological Model for Ethylene Vinyl Acetate Based on Fractional Calculus. International Journal of Photoenergy, 2015, 2015, 1-7.	2.5	19
35	An improved Finite Fracture Mechanics approach to blunt V-notch brittle fracture mechanics: Experimental verification on ceramic, metallic, and plastic materials. Theoretical and Applied Fracture Mechanics, 2015, 78, 20-24.	4.7	29
36	T-stress effects on crack kinking in Finite Fracture Mechanics. Engineering Fracture Mechanics, 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. International Journal of Fracture, 2014, 187, 285-291.	2.2	16
38	A coupled cohesive zone model for transient analysis of thermoelastic interface debonding. Computational Mechanics, 2014, 53, 845-857.	4.0	33
39	Adsorptionâ€“desorption phenomena and diffusion of neutral particles in the hyperbolic regime. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 015002.	2.1	5
40	Nonlocal elasticity: an approach based on fractional calculus. Meccanica, 2014, 49, 2551-2569.	2.0	62
41	Analytical Stress Intensity Factors for Cracks at Blunted V-notches. , 2014, 3, 738-743.		4
42	V-notched elements under mode II loading conditions. Structural Engineering and Mechanics, 2014, 49, 499-508.	1.0	22
43	Diffusion phenomenon in the hyperbolic and parabolic regimes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2416-2421.	2.1	3
44	Numerical Modelling of Microcracking in PV Modules Induced by Thermo-mechanical Loads. Energy Procedia, 2013, 38, 506-515.	1.8	19
45	Diffusion problems on fractional nonlocal media. Open Physics, 2013, 11, .	1.7	6
46	Mode mixity and size effect in V-notched structures. International Journal of Solids and Structures, 2013, 50, 1562-1582.	2.7	29
47	Wave propagation in nonlocal elastic continua modelled by a fractional calculus approach. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 63-74.	3.3	71
48	A Finite Fracture Mechanics approach to V-notched elements subjected to mixed-mode loading. Engineering Fracture Mechanics, 2013, 97, 216-226.	4.3	78
49	Wave propagation in fractional nonlocal elastic continua. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 599-604.	0.4	0
50	A Finite Fracture Mechanics approach to the asymptotic behaviour of Uâ€notched structures. Fatigue and Fracture of Engineering Materials and Structures, 2012, 35, 451-457.	3.4	36
51	A fractional calculus approach to nonlocal elasticity. European Physical Journal: Special Topics, 2011, 193, 193-204.	2.6	114
52	Brittle failures at rounded V-notches: a finite fracture mechanics approach. International Journal of Fracture, 2011, 172, 1-8.	2.2	42
53	The problem of the critical angle for edge and center V-notched structures. European Journal of Mechanics, A/Solids, 2011, 30, 281-285.	3.7	10
54	On the most dangerous V-notch. International Journal of Solids and Structures, 2010, 47, 887-893.	2.7	28

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55	Free vibration analysis of a von Koch beam. International Journal of Solids and Structures, 2010, 47, 1555-1562.	2.7	13
56	Diffusion problems in fractal media defined on Cantor sets. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2010, 90, 203-210.	1.6	38
57	Strength of hierarchical materials. Microsystem Technologies, 2009, 15, 27-31.	2.0	2
58	Staticâ€kinematic fractional operators for fractal and nonâ€local solids. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2009, 89, 207-217.	1.6	41
59	Asymptotic analysis of a von Koch beam. Chaos, Solitons and Fractals, 2009, 41, 795-802.	5.1	9
60	Generalized fracture toughness for specimens with re-entrant corners: Experiments vs. theoretical predictions. Structural Engineering and Mechanics, 2009, 32, 609-620.	1.0	25
61	A finite fracture mechanics approach to structures with sharp V-notches. Engineering Fracture Mechanics, 2008, 75, 1736-1752.	4.3	172
62	Fractals to Model Hierarchical Biomaterials. Advances in Science and Technology, 2008, 58, 54-59.	0.2	3
63	Blunt V-Notch Brittle Fracture: An Improved Finite Fracture Mechanics Approach. Advanced Materials Research, 0, 1105, 237-244.	0.3	1