

Venanzio Giannella

List of Publications by Year in descending order

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papers

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47
all docs

47
docs citations

47
times ranked

740
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of first Wendelstein 7-X high-performance operation. Nuclear Fusion, 2019, 59, 112004.	3.5	165
2	Major results from the first plasma campaign of the Wendelstein 7-X stellarator. Nuclear Fusion, 2017, 57, 102020.	3.5	128
3	Magnetic configuration effects on the Wendelstein 7-X stellarator. Nature Physics, 2018, 14, 855-860.	16.7	110
4	Demonstration of reduced neoclassical energy transport in Wendelstein 7-X. Nature, 2021, 596, 221-226.	27.8	69
5	FEM-DBEM approach for crack propagation in a low pressure aeroengine turbine vane segment. Theoretical and Applied Fracture Mechanics, 2016, 86, 143-152.	4.7	49
6	Combined static-cyclic multi-axial crack propagation in cruciform specimens. International Journal of Fatigue, 2019, 123, 296-307.	5.7	35
7	Dual boundary element method and finite element method for mixed-mode crack propagation simulations in a cracked hollow shaft. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 84-98.	3.4	33
8	Efficient FEM-DBEM coupled approach for crack propagation simulations. Theoretical and Applied Fracture Mechanics, 2017, 91, 76-85.	4.7	32
9	Fatigue life assessment in lateral support element of a magnet for nuclear fusion experiment "Wendelstein 7-X". Engineering Fracture Mechanics, 2017, 178, 243-257.	4.3	31
10	Stochastic approach to fatigue crack-growth simulation for a railway axle under input data variability. International Journal of Fatigue, 2021, 144, 106044.	5.7	30
11	Multibody Simulation for the Vibration Analysis of a Turbocharged Diesel Engine. Applied Sciences (Switzerland), 2018, 8, 1192.	2.5	23
12	Overview of fatigue life assessment of baffles in Wendelstein 7-X. Fusion Engineering and Design, 2018, 136, 292-297.	1.9	19
13	Surface crack modelling in an engine compressor disc. Theoretical and Applied Fracture Mechanics, 2019, 103, 102279.	4.7	18
14	FEM Simulation and Experimental Tests on the SMAW Welding of a Dissimilar T-Joint. Metals, 2021, 11, 1016.	2.3	18
15	LCF assessment on heat shield components of nuclear fusion experiment "Wendelstein 7-X" by critical plane criteria. Procedia Structural Integrity, 2018, 8, 318-331.	0.8	16
16	Design for NVH: topology optimization of an engine bracket support. Procedia Structural Integrity, 2020, 26, 211-218.	0.8	16
17	Additive Manufacturing in Industry. Applied Sciences (Switzerland), 2021, 11, 840.	2.5	16
18	Mixed-mode crack growth simulation in aviation engine compressor disk. Engineering Fracture Mechanics, 2021, 246, 107617.	4.3	15

#	ARTICLE	IF	CITATIONS
19	Uncertainty quantification in fatigue crack-growth predictions. <i>International Journal of Fracture</i> , 2022, 235, 179-195.	2.2	15
20	Numerical investigation on the fracture failure of a railway axle. <i>Engineering Failure Analysis</i> , 2021, 129, 105680.	4.0	12
21	A Novel Optimization Framework to Replicate the Vibro-Acoustics Response of an Aircraft Fuselage. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2473.	2.5	11
22	A Low Energy IoT Application Using Beacon for Indoor Localization. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4902.	2.5	11
23	Fatigue crack growth in a compressor stage of a turbofan engine by FEM-DBEM approach. <i>Procedia Structural Integrity</i> , 2018, 12, 404-415.	0.8	9
24	Substructuring of a Petrol Engine: Dynamic Characterization and Experimental Validation. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4969.	2.5	9
25	FEM-DBEM approach to simulate crack propagation in a turbine vane segment undergoing a fatigue load spectrum. <i>Procedia Structural Integrity</i> , 2018, 12, 479-491.	0.8	8
26	Multi-axial fatigue numerical crack propagation in cruciform specimens. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 639-647.	0.9	8
27	FEM-DBEM approach to analyse crack scenarios in a baffle cooling pipe undergoing heat flux from the plasma. <i>AIMS Materials Science</i> , 2017, 4, 391-412.	1.4	8
28	Static and fatigue behavior of laser welded additively manufactured 17-4 PH steel plates. <i>Procedia Structural Integrity</i> , 2021, 34, 172-177.	0.8	8
29	Multiaxial Fatigue Crack Propagation of an Edge Crack in a Cylindrical Specimen Undergoing Combined Tension-Torsion Loading. <i>Procedia Structural Integrity</i> , 2016, 2, 2706-2717.	0.8	7
30	Acoustic Improvements of Aircraft Headrests Based on Electrospun Mats Evaluated Through Boundary Element Method. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5712.	2.5	7
31	Thermal-Mechanical FEM Analyses of a Liquid Rocket Engines Thrust Chamber. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3443.	2.5	7
32	FEM Modelling Approaches of Bolt Connections for the Dynamic Analyses of an Automotive Engine. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4343.	2.5	6
33	Experimental/Numerical Acoustic Assessment of Aircraft Seat Headrests Based on Electrospun Mats. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6400.	2.5	6
34	Fatigue crack-growth predictions for a railway axle under material data variability. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1038, 012062.	0.6	5
35	On the statistical nature of fatigue crack-growth through Monte Carlo simulations and experimental data. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1214, 012020.	0.6	5
36	Fatigue crack propagation for an aircraft compressor under input data variability. <i>Procedia Structural Integrity</i> , 2022, 41, 298-304.	0.8	5

#	ARTICLE	IF	CITATIONS
37	Influence of position and building orientation on the static properties of LPBF specimens in 17-4 PH stainless steel. <i>Forces in Mechanics</i> , 2022, 8, 100108.	2.8	5
38	Deterministic fatigue crack-growth simulations for a railway axle by Dual Boundary Element Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1038, 012080.	0.6	4
39	Stability of cruciform specimens for fracture tests under compression. <i>Engineering Fracture Mechanics</i> , 2022, 261, 108247.	4.3	4
40	Structural FEM Analyses of a Landing Gear Testing Machine. <i>Metals</i> , 2022, 12, 937.	2.3	3
41	Characterization of equivalent acoustic sources to reproduce the acoustic field generated by engines on an aircraft fuselage. <i>Procedia Structural Integrity</i> , 2019, 24, 559-568.	0.8	2
42	Fatigue fracture tests on Al-Li 2198-T851 specimens under mixed-mode conditions. <i>Procedia Structural Integrity</i> , 2022, 39, 546-551.	0.8	2
43	Multi-axial fatigue numerical crack propagation in cruciform specimens. <i>Procedia Structural Integrity</i> , 2018, 12, 499-506.	0.8	1
44	Failure Analysis for a Low Pressure Aeroengine Turbine Vane. <i>The Open Mechanical Engineering Journal</i> , 2017, 11, 1-13.	0.3	1
45	FEM Substructuring for the Vibrational Characterization of a Petrol Engine. , 0, , .		1
46	DBEM crack propagation for nonlinear fracture problems. <i>Frattura Ed Integrita Strutturale</i> , 2016, , .	0.9	1
47	Advances in Vibroacoustics and Aeroacoustics of Marine, Aerospace and Automotive Systems. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6080.	2.5	0