

# Venanzio Giannella

## List of Publications by Year in descending order

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47  
papers

994  
citations

516710

16  
h-index

454955

30  
g-index

47  
all docs

47  
docs citations

47  
times ranked

740  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the statistical nature of fatigue crack-growth through Monte Carlo simulations and experimental data. IOP Conference Series: Materials Science and Engineering, 2022, 1214, 012020.	0.6	5
2	Stability of cruciform specimens for fracture tests under compression. Engineering Fracture Mechanics, 2022, 261, 108247.	4.3	4
3	Fatigue fracture tests on Al-Li 2198-T851 specimens under mixed-mode conditions. Procedia Structural Integrity, 2022, 39, 546-551.	0.8	2
4	Thermal-Mechanical FEM Analyses of a Liquid Rocket Engines Thrust Chamber. Applied Sciences (Switzerland), 2022, 12, 3443.	2.5	7
5	Uncertainty quantification in fatigue crack-growth predictions. International Journal of Fracture, 2022, 235, 179-195.	2.2	15
6	Fatigue crack propagation for an aircraft compressor under input data variability. Procedia Structural Integrity, 2022, 41, 298-304.	0.8	5
7	Structural FEM Analyses of a Landing Gear Testing Machine. Metals, 2022, 12, 937.	2.3	3
8	Advances in Vibroacoustics and Aeroacoustics of Marine, Aerospace and Automotive Systems. Applied Sciences (Switzerland), 2022, 12, 6080.	2.5	0
9	Influence of position and building orientation on the static properties of LPBF specimens in 17-4 PH stainless steel. Forces in Mechanics, 2022, 8, 100108.	2.8	5
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	Additive Manufacturing in Industry. Applied Sciences (Switzerland), 2021, 11, 840.	2.5	16
12	Fatigue crack-growth predictions for a railway axle under material data variability. IOP Conference Series: Materials Science and Engineering, 2021, 1038, 012062.	0.6	5
13	Deterministic fatigue crack-growth simulations for a railway axle by Dual Boundary Element Method. IOP Conference Series: Materials Science and Engineering, 2021, 1038, 012080.	0.6	4
14	Mixed-mode crack growth simulation in aviation engine compressor disk. Engineering Fracture Mechanics, 2021, 246, 107617.	4.3	15
15	FEM Modelling Approaches of Bolt Connections for the Dynamic Analyses of an Automotive Engine. Applied Sciences (Switzerland), 2021, 11, 4343.	2.5	6
16	A Low Energy IoT Application Using Beacon for Indoor Localization. Applied Sciences (Switzerland), 2021, 11, 4902.	2.5	11
17	FEM Simulation and Experimental Tests on the SMAW Welding of a Dissimilar T-Joint. Metals, 2021, 11, 1016.	2.3	18
18	Experimental/Numerical Acoustic Assessment of Aircraft Seat Headrests Based on Electrospun Mats. Applied Sciences (Switzerland), 2021, 11, 6400.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Demonstration of reduced neoclassical energy transport in Wendelstein 7-X. <i>Nature</i> , 2021, 596, 221-226.	27.8	69
20	Numerical investigation on the fracture failure of a railway axle. <i>Engineering Failure Analysis</i> , 2021, 129, 105680.	4.0	12
21	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
22	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
23	Design for NVH: topology optimization of an engine bracket support. <i>Procedia Structural Integrity</i> , 2020, 26, 211-218.	0.8	16
24	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
25	Surface crack modelling in an engine compressor disc. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 103, 102279.	4.7	18
26	Overview of first Wendelstein 7-X high-performance operation. <i>Nuclear Fusion</i> , 2019, 59, 112004.	3.5	165
27	Combined static-cyclic multi-axial crack propagation in cruciform specimens. <i>International Journal of Fatigue</i> , 2019, 123, 296-307.	5.7	35
28	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
29	Substructuring of a Petrol Engine: Dynamic Characterization and Experimental Validation. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4969.	2.5	9
30	Multi-axial fatigue numerical crack propagation in cruciform specimens. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 639-647.	0.9	8
31	Dual boundary element method and finite element method for mixed-mode crack propagation simulations in a cracked hollow shaft. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 84-98.	3.4	33
32	LCF assessment on heat shield components of nuclear fusion experiment "Wendelstein 7-X" by critical plane criteria. <i>Procedia Structural Integrity</i> , 2018, 8, 318-331.	0.8	16
33	Multi-axial fatigue numerical crack propagation in cruciform specimens. <i>Procedia Structural Integrity</i> , 2018, 12, 499-506.	0.8	1
34	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
35	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
36	Multibody Simulation for the Vibration Analysis of a Turbocharged Diesel Engine. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1192.	2.5	23

#	ARTICLE	IF	CITATIONS
37	Overview of fatigue life assessment of baffles in Wendelstein 7-X. Fusion Engineering and Design, 2018, 136, 292-297.	1.9	19
38	Magnetic configuration effects on the Wendelstein 7-X stellarator. Nature Physics, 2018, 14, 855-860.	16.7	110
39	Efficient FEM-DBEM coupled approach for crack propagation simulations. Theoretical and Applied Fracture Mechanics, 2017, 91, 76-85.	4.7	32
40	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
41	Major results from the first plasma campaign of the Wendelstein 7-X stellarator. Nuclear Fusion, 2017, 57, 102020.	3.5	128
42	Failure Analysis for a Low Pressure Aeroengine Turbine Vane. The Open Mechanical Engineering Journal, 2017, 11, 1-13.	0.3	1
43	FEM-DBEM approach to analyse crack scenarios in a baffle cooling pipe undergoing heat flux from the plasma. AIMS Materials Science, 2017, 4, 391-412.	1.4	8
44	Multiaxial Fatigue Crack Propagation of an Edge Crack in a Cylindrical Specimen Undergoing Combined Tension-Torsion Loading. Procedia Structural Integrity, 2016, 2, 2706-2717.	0.8	7
45	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
46	DBEM crack propagation for nonlinear fracture problems. Frattura Ed Integrita Strutturale, 2016, , .	0.9	1
47	FEM Substructuring for the Vibrational Characterization of a Petrol Engine. , 0, , .		1