

# Andrea Tridello

## List of Publications by Year in descending order

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62  
papers

995  
citations

430874

18  
h-index

501196

28  
g-index

62  
all docs

62  
docs citations

62  
times ranked

387  
citing authors

#	ARTICLE	IF	CITATIONS
1	Very-high-cycle fatigue behavior of Ti-6Al-4V manufactured by selective laser melting: Effect of build orientation. <i>International Journal of Fatigue</i> , 2020, 136, 105628.	5.7	82
2	Effect of microstructure, residual stresses and building orientation on the fatigue response up to 10 <sup>9</sup> cycles of an SLM AlSi10Mg alloy. <i>International Journal of Fatigue</i> , 2020, 137, 105659.	5.7	62
3	On specimen design for size effect evaluation in ultrasonic gigacycle fatigue testing. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2014, 37, 570-579.	3.4	52
4	S-N curves in the very-high-cycle fatigue regime: statistical modeling based on the hydrogen embrittlement consideration. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2016, 39, 1319-1336.	3.4	43
5	VHCF response of Gaussian SLM AlSi10Mg specimens: Effect of a stress relief heat treatment. <i>International Journal of Fatigue</i> , 2019, 124, 435-443.	5.7	42
6	VHCF response of as-built SLM AlSi10Mg specimens with large loaded volume. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 1918-1928.	3.4	40
7	Crack initiation behavior and fatigue performance up to very-high-cycle regime of AlSi10Mg fabricated by selective laser melting with two powder sizes. <i>International Journal of Fatigue</i> , 2021, 143, 106013.	5.7	36
8	Influence of the annealing and defects on the VHCF behavior of an SLM AlSi10Mg alloy. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 2794-2807.	3.4	34
9	Statistical models for estimating the fatigue life, the stress-life relation, and the S-N curves of metallic materials in Very High Cycle Fatigue: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 332-370.	3.4	27
10	Experimental and Numerical Investigation of a Lattice Structure for Energy Absorption: Application to the Design of an Automotive Crash Absorber. <i>Polymers</i> , 2022, 14, 1116.	4.5	27
11	Microstructure and preliminary fatigue analysis on AlSi10Mg samples manufactured by SLM. <i>Procedia Structural Integrity</i> , 2017, 7, 50-57.	0.8	25
12	VHCF response of heat-treated SLM Ti6Al4V Gaussian specimens with large loaded volume. <i>Procedia Structural Integrity</i> , 2019, 18, 314-321.	0.8	25
13	Size-effect in Very High Cycle Fatigue: A review. <i>International Journal of Fatigue</i> , 2021, 153, 106462.	5.7	25
14	Effect of electroslag remelting on the VHCF response of an AISI H13 steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 1783-1794.	3.4	23
15	VHCF strength decrement in large H13 steel specimens subjected to ESR process. <i>Procedia Structural Integrity</i> , 2016, 2, 1117-1124.	0.8	22
16	Size-effects affecting the fatigue response up to 10 <sup>9</sup> cycles (VHCF) of SLM AlSi10Mg specimens produced in horizontal and vertical directions. <i>International Journal of Fatigue</i> , 2022, 160, 106825.	5.7	22
17	VHCF Response of AISI H13 Steel: assessment of Size Effects through Gaussian Specimens. <i>Procedia Engineering</i> , 2015, 109, 121-127.	1.2	21
18	Estimation of S-N curves in very-high-cycle fatigue: Statistical procedure based on a general crack growth rate model. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 718-726.	3.4	20

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19	Very high cycle fatigue (VHCF) response of additively manufactured materials: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2919-2943.	3.4	20
20	Damaged composite laminates: Assessment of residual Young's modulus through the Impulse Excitation Technique. <i>Composites Part B: Engineering</i> , 2017, 128, 76-82.	12.0	19
21	Comparison between dog-bone and Gaussian specimens for size effect evaluation in gigacycle fatigue. <i>Frattura Ed Integrita Strutturale</i> , 2013, 7, 49-56.	0.9	18
22	Impact response of adhesive reversible joints made of thermoplastic nanomodified adhesive. <i>Journal of Adhesion</i> , 2018, 94, 1051-1066.	3.0	17
23	Ultrasonic VHCF Tests on Very Large Specimens with Risk-Volume Up to 5000 mm <sup>3</sup> . <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2210.	2.5	17
24	VHCF Response up to 109 Cycles of SLM AlSi10Mg Specimens Built in a Vertical Direction. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2954.	2.5	16
25	VHCF Response of Two AISI H13 Steels: Effect of Manufacturing Process and Size-Effect. <i>Metals</i> , 2019, 9, 133.	2.3	15
26	Fatigue failures from defects in additive manufactured components: A statistical methodology for the analysis of the experimental results. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1944-1960.	3.4	15
27	VHCF response of Gaussian specimens made of high-strength steels: comparison between unrefined and refined AISI H13. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 1676-1689.	3.4	14
28	Design against fatigue failures: Lower bound P-S-N curves estimation and influence of runout data. <i>International Journal of Fatigue</i> , 2022, 162, 106934.	5.7	13
29	Statistical distributions of Transition Fatigue Strength and Transition Fatigue Life in duplex S-N fatigue curves. <i>Theoretical and Applied Fracture Mechanics</i> , 2015, 80, 31-39.	4.7	12
30	Gaussian specimens for VHCF tests: Analytical prediction of damping effects. <i>International Journal of Fatigue</i> , 2016, 83, 36-41.	5.7	12
31	Effect of graphene nanoplatelets on the impact response of a carbon fibre reinforced composite. <i>Materials Today Communications</i> , 2020, 25, 101530.	1.9	12
32	Innovative formulation for topological fatigue optimisation based on material defects distribution and TopFat algorithm. <i>International Journal of Fatigue</i> , 2021, 147, 106176.	5.7	12
33	Modelling size effects for static strength of brittle materials. <i>Materials and Design</i> , 2020, 195, 109052.	7.0	11
34	Duplex S-N fatigue curves: statistical distribution of the transition fatigue life. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 417-423.	0.9	10
35	Nondestructive determination of local material properties of laminated composites with the impulse excitation technique. <i>Composite Structures</i> , 2021, 262, 113607.	5.8	10
36	Residual Properties in Damaged Laminated Composites through Nondestructive Testing: A Review. <i>Materials</i> , 2021, 14, 4513.	2.9	10

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37	Different Inclusion Contents in H13 Steel: Effects on VHCF Response of Gaussian Specimens. Key Engineering Materials, 0, 665, 49-52.	0.4	9
38	Statistical Estimation of Duplex S-N Curves. Key Engineering Materials, 0, 664, 285-294.	0.4	9
39	Assessment of Residual Elastic Properties of a Damaged Composite Plate with Combined Damage Index and Finite Element Methods. Applied Sciences (Switzerland), 2019, 9, 2579.	2.5	9
40	An innovative testing technique for assessing the VHCF response of adhesively bonded joints. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 84-96.	3.4	8
41	A novel methodology for the assessment of the residual elastic properties in damaged composite components. Composite Structures, 2017, 161, 435-440.	5.8	7
42	Effect of defect size on P-S-N curves in Very-High-Cycle Fatigue. Procedia Structural Integrity, 2017, 7, 335-342.	0.8	7
43	VHCF Response of H13 Steels Produced with Different Manufacturing Processes. Procedia Engineering, 2016, 160, 93-100.	1.2	6
44	Fatigue response up to $10^9$ cycles of a structural epoxy adhesive. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1555-1566.	3.4	6
45	A new methodology for thermostructural topology optimization: Analytical definition and validation. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 481-500.	1.1	6
46	Influence of Low-pH Beverages on the Two-Body Wear of CAD/CAM Monolithic Materials. Polymers, 2021, 13, 2915.	4.5	6
47	Numerical modelling of the mechanical response of lattice structures produced through AM. Procedia Structural Integrity, 2021, 33, 714-723.	0.8	6
48	Crack growth from internal defects and related size-effect in VHCF. Procedia Structural Integrity, 2017, 5, 247-254.	0.8	5
49	A general model for crack growth from initial defect in Very-High-Cycle Fatigue. Procedia Structural Integrity, 2017, 3, 411-423.	0.8	5
50	Gaussian Specimens for Gigacycle Fatigue Tests: Evaluation of Temperature Increment. Key Engineering Materials, 0, 627, 85-88.	0.4	4
51	Gaussian Specimens for Gigacycle Fatigue Tests: Damping Effects. Procedia Engineering, 2014, 74, 113-118.	1.2	4
52	Experimental Assessment of the Dynamic Behavior of Polyolefin Thermoplastic Hot Melt Adhesive. , 2018, , .		4
53	Analytical Design of Gigacycle Fatigue Specimens for Size Effect Evaluation. Key Engineering Materials, 0, 577-578, 369-372.	0.4	3
54	Static strength of brittle materials under multiaxial nonuniform stress states: A novel statistical model for assessing size effects. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 997-1013.	3.4	3

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55	Defect-Driven Topology Optimisation: TopFat algorithm validation via 3D components re-design for real industrial applications. <i>Procedia Structural Integrity</i> , 2022, 39, 81-88.	0.8	3
56	Experimental-Numerical Assessment of Critical SIF from VHCF Tests. <i>Key Engineering Materials</i> , 2016, 713, 62-65.	0.4	1
57	VHCF response of AM materials: A literature review. <i>Material Design and Processing Communications</i> , 2020, 2, e121.	0.9	1
58	A new statistical software for the estimation of P-S-N curves in presence of defects: statistical models and experimental validation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1038, 012029.	0.6	1
59	An innovative nondestructive technique for the local assessment of residual elastic properties in laminated composites. <i>Procedia Structural Integrity</i> , 2021, 33, 347-356.	0.8	1
60	An experimental-numerical methodology for the nondestructive assessment of the dynamic elastic properties of adhesives. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1038, 012028.	0.6	0
61	TopFat methodology implemented in a commercial software: benchmarking validation. <i>Procedia Structural Integrity</i> , 2021, 34, 221-228.	0.8	0
62	Defect-Driven Topology Optimisation: TopFat algorithm extended to commercial software for wide-ranging applications. <i>Procedia Structural Integrity</i> , 2021, 33, 1095-1102.	0.8	0