Andrea Tridello

List of Publications by Year
in descending order

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Version: 2024-02-01

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	Statistical models for estimating the fatigue life, the stressâ€“life relation, and the Pâ€“sâ€“N curves of metallic materials in Very High Cycle Fatigue: A review. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 332-370.	3.4	27
2	Defect-Driven Topology Optimisation: TopFat algorithm validation via 3D components re-design for real industrial applications. Procedia Structural Integrity, 2022, 39, 81-88.	0.8	3
3	Experimental and Numerical Investigation of a Lattice Structure for Energy Absorption: Application to the Design of an Automotive Crash Absorber. Polymers, 2022, 14, 1116.	4.5	27
4	Size-effects affecting the fatigue response up to 109 cycles (VHCF) of SLM AlSi10Mg specimens produced in horizontal and vertical directions. International Journal of Fatigue, 2022, 160, 106825.	5.7	22
5	Design against fatigue failures: Lower bound P-S-N curves estimation and influence of runout data. International Journal of Fatigue, 2022, 162, 106934.	5.7	13
6	Crack initiation behavior and fatigue performance up to very-high-cycle regime of AlSi10Mg fabricated by selective laser melting with two powder sizes. International Journal of Fatigue, 2021, 143, 106013.	5.7	36
7	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
8	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
9	An experimental-numerical methodology for the nondestructive assessment of the dynamic elastic properties of adhesives. IOP Conference Series: Materials Science and Engineering, 2021, 1038, 012028.	0.6	0
10	A new statistical software for the estimation of P-S-N curves in presence of defects: statistical models and experimental validation. IOP Conference Series: Materials Science and Engineering, 2021, 1038, 012029.	0.6	1
11	Nondestructive determination of local material properties of laminated composites with the impulse excitation technique. Composite Structures, 2021, 262, 113607.	5.8	10
12	Fatigue failures from defects in additive manufactured components: A statistical methodology for the analysis of the experimental results. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1944-1960.	3.4	15
13	Innovative formulation for topological fatigue optimisation based on material defects distribution and TopFat algorithm. International Journal of Fatigue, 2021, 147, 106176.	5.7	12
14	Residual Properties in Damaged Laminated Composites through Nondestructive Testing: A Review. Materials, 2021, 14, 4513.	2.9	10
15	Influence of Low-pH Beverages on the Two-Body Wear of CAD/CAM Monolithic Materials. Polymers, 2021, 13, 2915.	4.5	6
16	Very high cycle fatigue (VHCF) response of additively manufactured materials: A review. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 2919-2943.	3.4	20
17	Size-effect in Very High Cycle Fatigue: A review. International Journal of Fatigue, 2021, 153, 106462.	5.7	25
18	TopFat methodology implemented in a commercial software: benchmarking validation. Procedia Structural Integrity, 2021, 34, 221-228.	0.8	0

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19	Numerical modelling of the mechanical response of lattice structures produced through AM. Procedia Structural Integrity, 2021, 33, 714-723.	0.8	6
20	Defect-Driven Topology Optimisation: TopFat algorithm extended to commercial software for wide-ranging applications. Procedia Structural Integrity, 2021, 33, 1095-1102.	0.8	0
21	An innovative nondestructive technique for the local assessment of residual elastic properties in laminated composites. Procedia Structural Integrity, 2021, 33, 347-356.	0.8	1
22	Effect of graphene nanoplatelets on the impact response of a carbon fibre reinforced composite. Materials Today Communications, 2020, 25, 101530.	1.9	12
23	Modelling size effects for static strength of brittle materials. Materials and Design, 2020, 195, 109052.	7.0	11
24	Effect of microstructure, residual stresses and building orientation on the fatigue response up to 109 cycles of an SLM AlSi10Mg alloy. International Journal of Fatigue, 2020, 137, 105659.	5.7	62
25	VHCF response of AM materials: A literature review. Material Design and Processing Communications, 2020, 2, e121.	0.9	1
26	Very-high-cycle fatigue behavior of Ti-6Al-4V manufactured by selective laser melting: Effect of build orientation. International Journal of Fatigue, 2020, 136, 105628.	5.7	82
27	Ultrasonic VHCF Tests on Very Large Specimens with Risk-Volume Up to 5000 mm3. Applied Sciences (Switzerland), 2020, 10, 2210.	2.5	17
28	Fatigue response up to 10⁹ cycles of a structural epoxy adhesive. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1555-1566.	3.4	6
29	VHCF Response up to 109 Cycles of SLM AlSi10Mg Specimens Built in a Vertical Direction. Applied Sciences (Switzerland), 2019, 9, 2954.	2.5	16
30	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
31	Influence of the annealing and defects on the VHCF behavior of an SLM AlSi10Mg alloy. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2794-2807.	3.4	34
32	VHCF response of heat-treated SLM Ti6Al4V Gaussian specimens with large loaded volume. Procedia Structural Integrity, 2019, 18, 314-321.	0.8	25
33	VHCF response of Gaussian SLM AlSi10Mg specimens: Effect of a stress relief heat treatment. International Journal of Fatigue, 2019, 124, 435-443.	5.7	42
34	VHCF Response of Two AISI H13 Steels: Effect of Manufacturing Process and Size-Effect. Metals, 2019, 9, 133.	2.3	15
35	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
36	VHCF response of asâ€built SLM AlSi10Mg specimens with large loaded volume. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1918-1928.	3.4	40

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37	Estimation of <scp>Pâ€Sâ€N</scp> curves in veryâ€highâ€cycle fatigue: Statistical procedure based on a general crack growth rate model. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 718-726.	3.4	20
38	Impact response of adhesive reversible joints made of thermoplastic nanomodified adhesive. Journal of Adhesion, 2018, 94, 1051-1066.	3.0	17
39	Experimental Assessment of the Dynamic Behavior of Polyolefin Thermoplastic Hot Melt Adhesive. , 2018, , .		4
40	VHCF response of Gaussian specimens made of highâ€strength steels: comparison between unrefined and refined AISI H13. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1676-1689.	3.4	14
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	Crack growth from internal defects and related size-effect in VHCF. Procedia Structural Integrity, 2017, 5, 247-254.	0.8	5
43	Effect of electroslag remelting on the VHCF response of an AISI H13 steel. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1783-1794.	3.4	23
44	A general model for crack growth from initial defect in Very-High-Cycle Fatigue. Procedia Structural Integrity, 2017, 3, 411-423.	0.8	5
45	Damaged composite laminates: Assessment of residual Young's modulus through the Impulse Excitation Technique. Composites Part B: Engineering, 2017, 128, 76-82.	12.0	19
46	Microstructure and preliminary fatigue analysis on AlSi10Mg samples manufactured by SLM. Procedia Structural Integrity, 2017, 7, 50-57.	0.8	25
47	Effect of defect size on P-S-N curves in Very-High-Cycle Fatigue. Procedia Structural Integrity, 2017, 7, 335-342.	0.8	7
48	Experimental-Numerical Assessment of Critical SIF from VHCF Tests. Key Engineering Materials, 2016, 713, 62-65.	0.4	1
49	VHCF Response of H13 Steels Produced with Different Manufacturing Processes. Procedia Engineering, 2016, 160, 93-100.	1.2	6
50	VHCF strength decrement in large H13 steel specimens subjected to ESR process. Procedia Structural Integrity, 2016, 2, 1117-1124.	0.8	22
51	Sâ€N curves in the veryâ€highâ€cycle fatigue regime: statistical modeling based on the hydrogen embrittlement consideration. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 1319-1336.	3.4	43
52	Gaussian specimens for VHCF tests: Analytical prediction of damping effects. International Journal of Fatigue, 2016, 83, 36-41.	5.7	12
53	VHCF Response of AISI H13 Steel: assessment of Size Effects through Gaussian Specimens. Procedia Engineering, 2015, 109, 121-127.	1.2	21
54	Statistical distributions of Transition Fatigue Strength and Transition Fatigue Life in duplex Sâ€“N fatigue curves. Theoretical and Applied Fracture Mechanics, 2015, 80, 31-39.	4.7	12

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55	Duplex S-N fatigue curves: statistical distribution of the transition fatigue life. Frattura Ed Integrita Strutturale, 2014, 8, 417-423.	0.9	10
56	On specimen design for size effect evaluation in ultrasonic gigacycle fatigue testing. Fatigue and Fracture of Engineering Materials and Structures, 2014, 37, 570-579.	3.4	52
57	Gaussian Specimens for Gigacycle Fatigue Tests: Damping Effects. Procedia Engineering, 2014, 74, 113-118.	1.2	4
58	Comparison between dog-bone and Gaussian specimens for size effect evaluation in gigacycle fatigue. Frattura Ed Integrita Strutturale, 2013, 7, 49-56.	0.9	18
59	Analytical Design of Gigacycle Fatigue Specimens for Size Effect Evaluation. Key Engineering Materials, 0, 577-578, 369-372.	0.4	3
60	Gaussian Specimens for Gigacycle Fatigue Tests: Evaluation of Temperature Increment. Key Engineering Materials, 0, 627, 85-88.	0.4	4
61	Different Inclusion Contents in H13 Steel: Effects on VHCF Response of Gaussian Specimens. Key Engineering Materials, 0, 665, 49-52.	0.4	9
62	Statistical Estimation of Duplex S-N Curves. Key Engineering Materials, 0, 664, 285-294.	0.4	9