

Emanuele Sgambitterra

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

305
citations

933447

10
h-index

888059

17
g-index

22
all docs

22
docs citations

22
times ranked

264
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature dependent fracture properties of shape memory alloys: novel findings and a comprehensive model. <i>Scientific Reports</i> , 2016, 6, 17.	3.3	49
2	Temperature dependent local phase transformation in shape memory alloys by nanoindentation. <i>Scripta Materialia</i> , 2015, 101, 64-67.	5.2	43
3	Crack tip stress distribution and stress intensity factor in shape memory alloys. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 903-912.	3.4	41
4	Investigation on Crack Tip Transformation in NiTi Alloys: Effect of the Temperature. <i>Shape Memory and Superelasticity</i> , 2015, 1, 275-283.	2.2	24
5	Performances Analysis of Titanium Prostheses Manufactured by Superplastic Forming and Incremental Forming. <i>Procedia Engineering</i> , 2017, 183, 168-173.	1.2	20
6	Novel insight into the strain-life fatigue properties of pseudoelastic NiTi shape memory alloys. <i>Smart Materials and Structures</i> , 2019, 28, 10LT03.	3.5	18
7	Modeling and simulation of the thermo-mechanical response of NiTi-based Belleville springs. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 81-91.	2.5	17
8	Effects of Higher Order Terms in Fracture Mechanics of Shape Memory Alloys Bydigital Image Correlation. <i>Procedia Engineering</i> , 2015, 109, 457-464.	1.2	15
9	A new methodology for measuring residual stress using a modified Berkovich nano-indenter. <i>International Journal of Mechanical Sciences</i> , 2021, 207, 106662.	6.7	14
10	Surface roughness effect on multiaxial fatigue behavior of additively manufactured Ti6Al4V alloy. <i>International Journal of Fatigue</i> , 2022, 163, 107022.	5.7	13
11	Multiaxial fatigue behavior of SLM Ti6Al4V alloy under different loading conditions. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2625-2642.	3.4	11
12	Functional and Structural Fatigue of Pseudoelastic NiTi: Global Vs Local Thermo-Mechanical Response. <i>Shape Memory and Superelasticity</i> , 2020, 6, 242-255.	2.2	10
13	Experimental comparison of the MIG, friction stir welding, cold metal transfer and hybrid laser-MIG processes for AA 6005-T6 aluminium alloy. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	8
14	Multiaxial fatigue behavior of additive manufactured Ti-6Al-4V under in-phase stresses. <i>Procedia Structural Integrity</i> , 2019, 18, 914-920.	0.8	8
15	Low-to-high cycle fatigue properties of a NiTi shape memory alloy. <i>Procedia Structural Integrity</i> , 2019, 18, 908-913.	0.8	5
16	Multiaxial fatigue behavior of additively manufactured Ti6Al4V alloy: Axial-torsional proportional loads. <i>Material Design and Processing Communications</i> , 2021, 3, e190.	0.9	3
17	Assessment of the mechanical performance of titanium cranial prostheses manufactured by super plastic forming and single point incremental forming. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
18	Shape memory alloys-polymer composites: interfacial strength under mechanical and thermal loading. <i>Procedia Structural Integrity</i> , 2021, 33, 1073-1081.	0.8	2

#	ARTICLE	IF	CITATIONS
19	Shape Memory Alloy-Polymer Composites: Static and Fatigue Pullout Strength under Thermo-Mechanical Loading. <i>Materials</i> , 2022, 15, 3216.	2.9	2
20	A thermo-mechanical model for shape memory alloy-based crank heat engines. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 652-662.	2.5	0
21	Inverse problems with the digital image correlation: approach and applications. <i>Frattura Ed Integrita Strutturale</i> , 2021, 15, 300-320.	0.9	0
22	Fatigue assessment of Ti-6Al-4V titanium alloy laser welded joints in absence of filler material by means of full-field techniques. <i>Frattura Ed Integrita Strutturale</i> , 2018, 12, 171-181.	0.9	0