

Raffaele Sepe

List of Publications by Year in descending order

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56
papers

1,032
citations

516710

16
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477307

29
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56
all docs

56
docs citations

56
times ranked

948
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of chemical treatments on mechanical properties of hemp fiber reinforced composites. Composites Part B: Engineering, 2018, 133, 210-217.	12.0	331
2	Hybrid technique to assess the fatigue performance of multiple cracked FSW joints. Engineering Fracture Mechanics, 2016, 162, 38-50.	4.3	42
3	DBEM crack propagation in friction stir welded aluminum joints. Advances in Engineering Software, 2016, 101, 50-59.	3.8	40
4	FML full scale aeronautic panel under multiaxial fatigue: Experimental test and DBEM Simulation. Engineering Fracture Mechanics, 2011, 78, 1717-1728.	4.3	38
5	Numerical study of the structural behaviour of impacted composite laminates subjected to compression load. Composites Part B: Engineering, 2015, 79, 456-465.	12.0	38
6	The influence of thermal properties and preheating on residual stresses in welding. International Journal of Computational Materials Science and Surface Engineering, 2007, 1, 146.	0.2	33
7	Numerical and experimental investigation of residual strength of a LVI damaged CFRP omega stiffened panel with a cut-out. Composites Part B: Engineering, 2016, 102, 38-56.	12.0	32
8	A new approach to study the influence of the weld bead morphology on the fatigue behaviour of Ti6Al4V laser beam-welded butt joints. International Journal of Advanced Manufacturing Technology, 2017, 88, 75-88.	3.0	26
9	Numerical and experimental validation of residual stresses of laser-welded joints and their influence on the fatigue behaviour. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1126-1141.	3.4	24
10	Tensile Testing of Hybrid Composite Joints. Applied Mechanics and Materials, 0, 575, 452-456.	0.2	23
11	Crack Growth Behavior of Welded Stiffened Panel. Procedia Engineering, 2015, 109, 473-483.	1.2	22
12	Correlation between real geometry and tensile mechanical behaviour for Ti6Al4V electron beam melted thin specimens. Theoretical and Applied Fracture Mechanics, 2020, 107, 102519.	4.7	21
13	Analytical solutions for yield onset achievement in FGM thick walled cylindrical tubes undergoing thermomechanical loads. Composites Part B: Engineering, 2017, 116, 211-223.	12.0	20
14	Evaluation by FEM of the Influence of the Preheating and Post-Heating Treatments on Residual Stresses in Welding. Key Engineering Materials, 0, 627, 93-96.	0.4	19
15	Overview of fatigue life assessment of baffles in Wendelstein 7-X. Fusion Engineering and Design, 2018, 136, 292-297.	1.9	19
16	Experimental and FEM numerical assessment of multiaxial fatigue failure criteria for a rolling Stock's seats structure. Engineering Failure Analysis, 2019, 102, 303-317.	4.0	19
17	Numerical FEM Evaluation for the Structural Behaviour of a Hybrid (bonded/bolted) Single-lap Composite Joint. Procedia Structural Integrity, 2018, 8, 137-153.	0.8	18
18	FEM Simulation and Experimental Tests on the SMAW Welding of a Dissimilar T-Joint. Metals, 2021, 11, 1016.	2.3	18

#	ARTICLE	IF	CITATIONS
19	Rapid evaluation of notch stress intensity factors using the peak stress method with 3D tetrahedral finite element models: Comparison of commercial codes. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 1005-1034.	3.4	16
20	Evaluation of Residual Stresses in Butt Welded Joint of Dissimilar Material by FEM. <i>Key Engineering Materials</i> , 0, 754, 268-271.	0.4	15
21	Vibro-Acoustic Numerical Analysis for the Chain Cover of a Car Engine. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 610.	2.5	15
22	Numerical and Experimental Investigation on the Structural Behaviour of a Horizontal Stabilizer under Critical Aerodynamic Loading Conditions. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-12.	1.8	15
23	Probabilistic Analysis of Fatigue Behavior of Single Lap Riveted Joints. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3379.	2.5	15
24	Finite-Element Simulation of Temperature Fields and Residual Stresses in Butt Welded Joints and Comparison With Experimental Measurements. , 2014, , .		13
25	Development and stress behaviour of an innovative refrigerated container with PCM for fresh and frozen goods. <i>Multidiscipline Modeling in Materials and Structures</i> , 2015, 11, 202-215.	1.3	13
26	Influence of thermo-mechanical material properties on the structural response of a welded butt-joint by FEM simulation and experimental tests. <i>Forces in Mechanics</i> , 2021, 4, 100018.	2.8	12
27	Numerical investigation on the fracture failure of a railway axle. <i>Engineering Failure Analysis</i> , 2021, 129, 105680.	4.0	12
28	Established Numerical Techniques for the Structural Analysis of a Regional Aircraft Landing Gear. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-21.	1.8	11
29	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
30	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
31	Numerical evaluation of temperature fields and residual stresses in butt weld joints and comparison with experimental measurements. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 182-198.	3.4	7
32	Static and fatigue experimental tests on a full scale fuselage panel and FEM analyses. <i>Frattura Ed Integrita Strutturale</i> , 2016, 10, 534-550.	0.9	7
33	Finite Element Analysis of Residual Stresses on Butt Welded Joints. , 2006, , 45.		6
34	3D strip model for continuous roll-forming process simulation. <i>Procedia Structural Integrity</i> , 2018, 12, 370-379.	0.8	6
35	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
36	Static and modal numerical analyses for the roof structure of a railway freight refrigerated car. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, 451-462.	0.9	6

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37	Design of a Bamboo Treadmill Bicycle Main Frame. Macromolecular Symposia, 2020, 389, 1900101.	0.7	5
38	Influences of Material Variations of Functionally Graded Pipe on the Bree Diagram. Applied Sciences (Switzerland), 2020, 10, 2936.	2.5	5
39	Fatigue crack propagation for an aircraft compressor under input data variability. Procedia Structural Integrity, 2022, 41, 298-304.	0.8	5
40	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
41	Numerical Investigation on the Influence of Tightening in Bolted Joints. Procedia Structural Integrity, 2019, 24, 746-757.	0.8	4
42	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
43	Fatigue Behaviour of Full Scale Flat Stiffened Aeronautic Panels. Key Engineering Materials, 0, 627, 97-100.	0.4	3
44	Numerical Evaluation and Experimental Comparison of Elasto-plastic Stress-strain Distribution Around the Corner Cracks of a Notched Specimen. Procedia Engineering, 2015, 109, 285-295.	1.2	3
45	Effect of the Process Parameters on the Geometrical Defects of Ti-6Al-4V Hot Rolled Sheets Laser Beam Welded. Key Engineering Materials, 0, 651-653, 901-906.	0.4	3
46	Numerical and experimental evaluation of stress relaxation in hybrid composite-metal bolted joints. AIP Conference Proceedings, 2018, , .	0.4	3
47	A computational strategy for damage-tolerant design of hollow shafts under mixed-mode loading condition. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 583-594.	3.4	3
48	Fatigue behavior of hybrid and bonded single lap joints made of composite material. Procedia Structural Integrity, 2022, 41, 631-637.	0.8	3
49	Structural FEM Analyses of a Landing Gear Testing Machine. Metals, 2022, 12, 937.	2.3	3
50	Performance evaluation of CFRP-rubber shock absorbers. , 2014, , .		2
51	Coupled FEM-DBEM Simulation of 3D Crack Growth under Fatigue Load Spectrum. Procedia Structural Integrity, 2016, 2, 2631-2642.	0.8	2
52	Stress corrosion cracking behavior of welding joint of high strength steel. IOP Conference Series: Materials Science and Engineering, 2021, 1038, 012055.	0.6	2
53	A robust approach for the determination of Gurson model parameters. Frattura Ed Integrita Strutturale, 2016, 10, 369-381.	0.9	2
54	Dies for pressing metal powders to form helical gears. Procedia Structural Integrity, 2018, 12, 457-470.	0.8	1

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55	Multiple Crack Propagation in Friction Stir Welded Aluminium Joints. , 0, , .		1
56	A numerical procedure for evaluating physical parameters of ergonomic assessment for cart pushing/pulling tasks. Procedia Structural Integrity, 2018, 12, 304-316.	0.8	0