

# Filippo Berto

## List of Publications by Year in descending order

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648  
papers

25,414  
citations

9428

76  
h-index

16791

127  
g-index

656  
all docs

656  
docs citations

656  
times ranked

14799  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of creep damage mechanical behaviors of red sandstone considering temperature effect. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 411-424.	1.7	14
2	Creep damage behaviors of red sandstone subjected to uniaxial compression after high-temperature heat treatment using acoustic emission technology. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 302-322.	1.7	15
3	Fatigue behaviour of notched laser powder bed fusion AlSi10Mg after thermal and mechanical surface post-processing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 829, 142145.	2.6	44
4	On the fatigue properties of a third generation aluminium-steel butt weld made by Hybrid Metal Extrusion & Bonding (HYB). <i>International Journal of Fatigue</i> , 2022, 155, 106586.	2.8	7
5	Load sequence effects and cyclic deformation behaviour of 7075-T651 aluminium alloy. <i>International Journal of Fatigue</i> , 2022, 155, 106593.	2.8	13
6	Effects and optimization of biomimetic laser shock peening on residual fatigue life improvement of aluminum alloy used in aircraft skin. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 117, 103155.	2.1	6
7	Strength mismatch effect on residual stress of 10CrNi3MoV steel considering the back-chipping process. <i>International Journal of Pressure Vessels and Piping</i> , 2022, 195, 104570.	1.2	4
8	Effect of stress ratios on corrosion fatigue life of high-strength steel wires. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 593-606.	1.7	5
9	Statistical models for estimating the fatigue life, the stress-life relation, and the P-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.	1.7	27
10	Higher order stress terms in sharp notch problems under pure-out-of-plane loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 500.	1.7	4
11	Role of metal 3D printing to increase quality and resource-efficiency in the construction sector. <i>Additive Manufacturing</i> , 2022, 50, 102541.	1.7	24
12	A state-of-the-art review on creep damage mechanics of rocks. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 627-652.	1.7	25
13	Editorial: Renewal of FFEMS Editorial Board. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 331-331.	1.7	0
14	Predicting fatigue life of metal LPBF components by combining a large fatigue database for different sample conditions with novel simulation strategies. <i>Additive Manufacturing</i> , 2022, 50, 102570.	1.7	3
15	Anodizing Al-Si Foundry Alloys: A Critical Review. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	16
16	Dual Synergistic Effects of MgO-GO Fillers on Degradation Behavior, Biocompatibility and Antibacterial Activities of Chitosan Coated Mg Alloy. <i>Coatings</i> , 2022, 12, 63.	1.2	7
17	The Effect of Co-Encapsulated GO-Cu Nanofillers on Mechanical Properties, Cell Response, and Antibacterial Activities of Mg-Zn Composite. <i>Metals</i> , 2022, 12, 207.	1.0	12
18	Evaluation and Origin of Residual Stress in Hybrid Metal and Extrusion Bonding and Comparison with Friction Stir Welding. <i>International Journal of Mechanical Sciences</i> , 2022, 218, 107089.	3.6	10

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19	Fatigue crack growth of a railway wheel steel and fatigue life prediction under spectrum loading conditions. <i>International Journal of Fatigue</i> , 2022, 157, 106722.	2.8	7
20	Machine learning based very-high-cycle fatigue life prediction of Ti-6Al-4V alloy fabricated by selective laser melting. <i>International Journal of Fatigue</i> , 2022, 158, 106764.	2.8	53
21	Inverse determination and probability distribution of the mode III strain energy density control radius with an optimized V-notched specimen under torsional fatigue loading. <i>International Journal of Fatigue</i> , 2022, 159, 106787.	2.8	2
22	Numerical analysis and discussion on the hot-spot stress concept applied to welded tubular KT joints. <i>Engineering Failure Analysis</i> , 2022, 135, 106092.	1.8	9
23	Probabilistic fatigue modelling of metallic materials under notch and size effect using the weakest link theory. <i>International Journal of Fatigue</i> , 2022, 159, 106788.	2.8	63
24	Synthesis, Corrosion, and Bioactivity Evaluation of the Hybrid Anodized Polycaprolactone Fumarate/Silicon- and Magnesium-Codoped Fluorapatite Nanocomposite Coating on AZ31 Magnesium Alloy. <i>Physical Mesomechanics</i> , 2022, 25, 85-96.	1.0	5
25	Prediction of multiaxial fatigue life of notched maraging steel components manufactured by selective laser melting. <i>Procedia Structural Integrity</i> , 2022, 39, 273-280.	0.3	1
26	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.	0.3	3
27	Metallurgical Characterization of Co-Cr-Mo Parts Processed by a Hybrid Manufacturing Technology. <i>Physical Mesomechanics</i> , 2022, 25, 155-167.	1.0	0
28	Graphene oxide encapsulated forsterite scaffolds to improve mechanical properties and antibacterial behavior. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 035011.	1.7	6
29	On the role of building orientation and surface post-processes on the fatigue life of Ti-6Al-4V coupons manufactured by laser powder bed fusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 840, 142747.	2.6	10
30	Microstructural observations of an AA6082-T6 Hybrid Metal Extrusion & Bonding (HYB) butt weld. <i>Materials Today Communications</i> , 2022, 31, 103489.	0.9	1
31	Antimicrobial Synthetic and Natural Polymeric Nanofibers as Wound Dressing: A Review. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	30
32	On the efficiency of machine learning for fatigue assessment of post-processed additively manufactured AlSi10Mg. <i>International Journal of Fatigue</i> , 2022, 160, 106841.	2.8	31
33	Misalignment effect on the fatigue failure behavior of load-carrying cruciform welded joints. <i>International Journal of Fatigue</i> , 2022, 160, 106847.	2.8	9
34	Experimental study on the progressive failure of double-flawed granite samples subjected to impact loads. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 653-670.	1.7	11
35	Analytical prediction of the fatigue limit for axisymmetric round bars with rough surface morphology. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 739-753.	1.7	1
36	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.	2.8	13

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37	Strain energy density approach as fatigue assessment of Ti6Al4V specimens machined by WEDM single step technology. International Journal of Fatigue, 2022, 161, 106915.	2.8	0
38	Stickâ€“slip shear failure along bimaterial interfaces: An experimental study on granite and basalt. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 2023-2046.	1.7	2
39	Optimization of fatigue life of pearlitic Grade 900A steel based on the combination of genetic algorithm and artificial neural network. International Journal of Fatigue, 2022, 162, 106975.	2.8	24
40	Notch fatigue analysis and life assessment using an energy field intensity approach in 7050-T6 aluminium alloy under bending-torsion loading. International Journal of Fatigue, 2022, 162, 106947.	2.8	15
41	Mesh size effects on fracture locus of high strength bolts: A mesoscale critical equivalent plastic strain (MCEPS) approach. Engineering Failure Analysis, 2022, 138, 106385.	1.8	3
42	Use of Low Melting Point Metals and Alloys ( $T_m < 420 \text{ }^\circ\text{C}$ ) as Phase Change Materials: A Review. Metals, 2022, 12, 945.	1.0	9
43	A Review on Antibacterial Biomaterials in Biomedical Applications: From Materials Perspective to Bioinks Design. Polymers, 2022, 14, 2238.	2.0	24
44	Quantifying lamellar microstructural effect on the fatigue performance of bimodal Ti-6Al-4V with microdefect. International Journal of Fatigue, 2022, 163, 107045.	2.8	5
45	Experimental study on triaxial creep behavior of red sandstone under different pore pressures based on ultrasonic measurement. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 2388-2402.	1.7	1
46	A stress-based approach for considering the size effect on the mixed mode fracture behavior of rock. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 10841-10851.	1.1	3
47	Experimental study on cracking behaviors of coarse and fine sandstone containing two flaws under biaxial compression. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 2595-2612.	1.7	7
48	Characterization of the Influence of Rotational and Traverse Speeds on the Mechanical and Microstructural Properties of Wires Produced By the FSBE Method. Strength of Materials, 2022, 54, 318-330.	0.2	10
49	Advanced general particle dynamics with nonlocal foundation for fracture analysis. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 2794-2810.	1.7	7
50	Energy TCD - robust and simple failure prediction unifying the TCD and ASED criterion. Engineering Fracture Mechanics, 2022, 271, 108652.	2.0	2
51	An experimental investigation of fatigue performance and crack initiation characteristics for an SLMed Ti-6Al-4V under different stress ratios up to very-high-cycle regime. International Journal of Fatigue, 2022, 164, 107119.	2.8	15
52	Effect of misalignments and welding penetration on the fatigue strength of a common welded detail: SED method predictions and comparisons with codes. International Journal of Fatigue, 2022, 164, 107135.	2.8	4
53	Coreâ€“shell nanofibers for developing selfâ€“healing materials: Recent progress and future directions. Material Design and Processing Communications, 2021, 3, e90.	0.5	3
54	Transient simulation of failures during startâ€“up and power cut of a solid oxide fuel cell system using multiphysics modeling. Material Design and Processing Communications, 2021, 3, e177.	0.5	1

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55	Electrospun biomimetic polymer nanofibers as vascular grafts. <i>Material Design and Processing Communications</i> , 2021, 3, e203.	0.5	6
56	Sustainable nanofibers in tissue engineering and biomedical applications. <i>Material Design and Processing Communications</i> , 2021, 3, e202.	0.5	10
57	Improving mechanical properties of wire-based EBAM parts by adding TiC powders. <i>Material Design and Processing Communications</i> , 2021, 3, e136.	0.5	3
58	Mechanical property, antibacterial activity and cytocompatibility of a PMMA-based bone cement loaded with clindamycin for orthopaedic surgeries. <i>Materials Technology</i> , 2021, 36, 564-573.	1.5	5
59	Mechanical testing of gas metal arc AA6082-T6 weldments. <i>Material Design and Processing Communications</i> , 2021, 3, e160.	0.5	0
60	Porosity effect on tensile behavior of Ti-6Al-4V specimens produced by laser engineered net shaping technology. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 1930-1937.	1.1	18
61	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.	2.8	36
62	Effect of heat treatment on fatigue behavior of as-built notched Co-Cr-Mo parts produced by Selective Laser Melting. <i>International Journal of Fatigue</i> , 2021, 142, 105926.	2.8	41
63	Influence of processing parameters of selective laser melting on high-cycle and very-high-cycle fatigue behaviour of Ti-6Al-4V. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 240-256.	1.7	50
64	Poly(methyl methacrylate) bone cement, its rise, growth, downfall and future. <i>Polymer International</i> , 2021, 70, 1182-1201.	1.6	36
65	Novel strategy for quality improvement of up-facing inclined surfaces of LPBF parts by combining laser-induced shock waves and in situ laser remelting. <i>Journal of Materials Processing Technology</i> , 2021, 290, 116981.	3.1	23
66	Cracking behaviours of rock-like materials containing three preexisting flaws after high-temperature treatments. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 622-635.	1.7	16
67	Effects of inclusion size and stress ratio on the very-high-cycle fatigue behavior of pearlitic steel. <i>International Journal of Fatigue</i> , 2021, 142, 105958.	2.8	21
68	Strain localization and cracking behavior of sandstone with two gypsum-infilled parallel flaws. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 112, 102873.	2.1	10
69	Damage analysis of sandstone during the creep stage under the different levels of uniaxial stress using NMR measurements. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 719-732.	1.7	34
70	Experimental and numerical fretting fatigue using a new test fixture. <i>International Journal of Fatigue</i> , 2021, 143, 106011.	2.8	18
71	Microstructural and mechanical characterisation of a second generation hybrid metal extrusion & bonding aluminium-steel butt joint. <i>Materials Characterization</i> , 2021, 173, 110761.	1.9	9
72	Future of additive manufacturing in healthcare. <i>Current Opinion in Biomedical Engineering</i> , 2021, 17, 100255.	1.8	60

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73	Fatigue behaviour of FDM-3D printed polymers, polymeric composites and architected cellular materials. <i>International Journal of Fatigue</i> , 2021, 143, 106007.	2.8	176
74	The mechanical testing and performance analysis of polymer-fibre composites prepared through the additive manufacturing. <i>Polymer Testing</i> , 2021, 93, 106925.	2.3	162
75	Fatigue strength assessment of heavy section ductile irons through the average strain density energy criterion. <i>Material Design and Processing Communications</i> , 2021, 3, e197.	0.5	1
76	Fretting in medium-speed reciprocating engines"Comments on practices and opportunities. <i>Material Design and Processing Communications</i> , 2021, 3, e201.	0.5	1
77	The influence of size and healing content on the performance of extrinsic self-healing coatings. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49964.	1.3	21
78	The Effect of Graphene-Oxide Nanoplatelets on the High-Velocity Impact Response of Glass Laminate Aluminum Reinforced Epoxy. <i>Physical Mesomechanics</i> , 2021, 24, 65-76.	1.0	5
79	Strain Energy Density-Predicted Brittle Fracture of U-Notched Components Under Combined Tension/Tear Loading. <i>Strength of Materials</i> , 2021, 53, 1-10.	0.2	1
80	Poly(methyl methacrylate)-Based Composite Bone Cements With Different Types of Reinforcement Agents. , 2021, , 867-886.		0
81	Additive Manufacturing of Polymer Matrix Composites. , 2021, , 1013-1028.		4
82	Ductile fracture locus identification using mesoscale critical equivalent plastic strain. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1292-1304.	1.7	12
83	Quasi-static compression and compression"compression fatigue behavior of regular and irregular cellular biomaterials. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1178-1194.	1.7	13
84	Fatigue assessment of cruciform joints: Comparison between Strain Energy Density predictions and current standards and recommendations. <i>Engineering Structures</i> , 2021, 230, 111708.	2.6	18
85	Fire Behavior of 3D-Printed Polymeric Composites. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 4745-4755.	1.2	14
86	3D printed microneedles for transdermal drug delivery: A brief review of two decades. <i>International Journal of Pharmaceutics</i> , 2021, 597, 120301.	2.6	48
87	Interface microstructure and tensile properties of a third generation aluminium-steel butt weld produced using the Hybrid Metal Extrusion & Bonding (HYB) process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 809, 140975.	2.6	16
88	An investigation of the anisotropic properties of heat-treated maraging steel grade 300 processed by laser powder bed fusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 1359-1372.	1.5	9
89	The Effect of Hydrophilic and Hydrophobic Nanofillers on Moisture Uptake and Mechanical Properties Degradation of Nanocomposites under Hot and Wet Conditions. <i>Physical Mesomechanics</i> , 2021, 24, 335-342.	1.0	4
90	Resource-efficient joint fabrication by welding metal 3D-printed parts to conventional steel: A structural integrity study. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1271-1291.	1.7	13

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91	Experimental characterization and theoretical prediction of quasi-static fracture behavior of notched ZK60-5%Mg samples. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1484-1497.	1.7	2
92	On the application of the volume free strain energy density method to blunt V-notches under mixed mode condition. <i>Engineering Structures</i> , 2021, 230, 111716.	2.6	14
93	Architected cellular materials: A review on their mechanical properties towards fatigue-tolerant design and fabrication. <i>Materials Science and Engineering Reports</i> , 2021, 144, 100606.	14.8	316
94	Compression-induced crack initiation and growth in flawed rocks: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1681-1707.	1.7	54
95	Very-high-cycle fatigue behavior of AlSi10Mg manufactured by selected laser melting: Crystal plasticity modeling. <i>International Journal of Fatigue</i> , 2021, 145, 106109.	2.8	52
96	Long solidification time effect on solution strengthened ferritic ductile iron fatigue properties. <i>International Journal of Fatigue</i> , 2021, 145, 106137.	2.8	16
97	Relationship between the microstructure and the heat treatment and creep behavior of Fe-33Ni-19Cr alloy. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1719-1738.	1.7	3
98	A novel predictive model for multiaxial fatigue in carburized bevel gears. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2033-2053.	1.7	18
99	Fatigue fracture assessment of 10CrNi3MoV welded load-carrying cruciform joints considering mismatch effect. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1739-1759.	1.7	6
100	Failure characteristics of coarse and fine sandstone containing two parallel fissures subjected to true triaxial stresses. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 112, 102932.	2.1	16
101	CNT and rGO reinforced PMMA based bone cement for fixation of load bearing implants: Mechanical property and biological response. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 116, 104320.	1.5	25
102	Synthesis and Characterization of Hot Extruded Magnesium-Zinc Nano-Composites Containing Low Content of Graphene Oxide for Implant Applications. <i>Physical Mesomechanics</i> , 2021, 24, 486-502.	1.0	10
103	Compressive-shear fracture model of the phase-field method coupled with a modified Hoek-Brown criterion. <i>International Journal of Fracture</i> , 2021, 229, 161-184.	1.1	8
104	Recent Advances in Chemically-Modified and Hybrid Carrageenan-Based Platforms for Drug Delivery, Wound Healing, and Tissue Engineering. <i>Polymers</i> , 2021, 13, 1744.	2.0	48
105	Crack initiation and propagation from geometric microdefects: Experiment and transition fatigue behavior. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2323-2336.	1.7	12
106	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.	1.7	15
107	A Comprehensive Review on Surface Modifications of Biodegradable Magnesium-Based Implant Alloy: Polymer Coatings Opportunities and Challenges. <i>Coatings</i> , 2021, 11, 747.	1.2	48
108	Smoothed peridynamics for the extremely large deformation and cracking problems: Unification of peridynamics and smoothed particle hydrodynamics. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2444-2461.	1.7	21

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109	A Brief Review on Additive Manufacturing of Polymeric Composites and Nanocomposites. <i>Micromachines</i> , 2021, 12, 704.	1.4	19
110	Recent Advances on Bioprinted Gelatin Methacrylate-Based Hydrogels for Tissue Repair. <i>Tissue Engineering - Part A</i> , 2021, 27, 679-702.	1.6	65
111	Fabrication of Highly Oriented Cylindrical Polyacrylonitrile, Poly(lactide-co-glycolide), Polycaprolactone and Poly(vinyl acetate) Nanofibers for Vascular Graft Applications. <i>Polymers</i> , 2021, 13, 2075.	2.0	7
112	Innovative formulation for topological fatigue optimisation based on material defects distribution and TopFat algorithm. <i>International Journal of Fatigue</i> , 2021, 147, 106176.	2.8	12
113	Influence of Cu content on the microstructure and high-temperature tensile and fatigue properties of secondary AlSi7Mg0.3VZr alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 816, 141310.	2.6	7
114	Combined effects of recycled crumb rubber and silica fume on mechanical properties and mode I fracture toughness of self-compacting concrete. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2659-2673.	1.7	24
115	Heat Treatments for Stress Relieving AlSi9Cu3 Alloy Produced by Laser Powder Bed Fusion. <i>Materials</i> , 2021, 14, 4184.	1.3	8
116	On the effect of the node and building orientation on the fatigue behavior of LPBF Ti6Al4V lattice structure sub-unit elements. <i>Material Design and Processing Communications</i> , 2021, 3, e258.	0.5	4
117	Fracture analysis of rock reconstruction models based on cooling-solidification annealing algorithms. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2503-2523.	1.7	8
118	Recent advances on akermanite calcium-silicate ceramic for biomedical applications. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 1901-1920.	1.1	22
119	Probabilistic S-N curves for CFRP retrofitted steel details. <i>International Journal of Fatigue</i> , 2021, 148, 106205.	2.8	26
120	Additively manufactured Ti6Al4V thin struts via laser powder bed fusion: Effect of building orientation on geometrical accuracy and mechanical properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 119, 104495.	1.5	40
121	Experimental and numerical investigations of oxide-related defects in Al alloy gravity die castings. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 117, 1765-1780.	1.5	8
122	Fatigue performance prediction of Al-alloy 2024 plates in riveted joint structure. <i>Engineering Failure Analysis</i> , 2021, 126, 105439.	1.8	8
123	Crack initiation mechanisms under two stress ratios up to very-high-cycle fatigue regime for a selective laser melted Ti-6Al-4V. <i>International Journal of Fatigue</i> , 2021, 149, 106294.	2.8	34
124	Does metallurgy affect the residual notch stress intensity factor value induced by welding operations? A comprehensive study via a 3D numerical model. <i>International Journal of Fatigue</i> , 2021, 149, 106261.	2.8	5
125	Effect of Heat Treatment on Microstructure and Creep Behavior of Fe-40Ni-24Cr Alloy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7951.	1.3	7
126	Static and fatigue behavior of injection molded short-fiber reinforced PPS composites: Fiber content and high temperature effects. <i>Engineering Failure Analysis</i> , 2021, 126, 105429.	1.8	7



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127	An investigation on fatigue behavior of AA2024 aluminum alloy sheets in fuselage lap joints. Engineering Failure Analysis, 2021, 126, 105457.	1.8	13
128	Very high cycle fatigue (VHCF) response of additively manufactured materials: A review. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 2919-2943.	1.7	20
129	3â€Dimensional Printing of Hydrogelâ€Based Nanocomposites: A Comprehensive Review on the Technology Description, Properties, and Applications. Advanced Engineering Materials, 2021, 23, 2100477.	1.6	25
130	Multiaxial low cycle fatigue of notched 10CrNi3MoV steel and its undermatched welds. International Journal of Fatigue, 2021, 150, 106309.	2.8	7
131	Notch energy-based low and high cycle fatigue assessment of load-carrying cruciform welded joints considering the strength mismatch. International Journal of Fatigue, 2021, 151, 106410.	2.8	15
132	Effect of geometrical irregularities on fatigue of lead sheathing for submarine high voltage power cable applications. International Journal of Fatigue, 2021, 151, 106399.	2.8	1
133	Mode III critical distance determination with optimized V-notched specimen under torsional fatigue and size effects on the inverse search probability distribution. International Journal of Fatigue, 2021, 151, 106351.	2.8	9
134	Comparison of different one-parameter damage laws and local stress-strain approaches in multiaxial fatigue life assessment of notched components. International Journal of Fatigue, 2021, 151, 106405.	2.8	39
135	Constant/variable amplitude multiaxial notch fatigue of additively manufactured AISI 316L. International Journal of Fatigue, 2021, 152, 106412.	2.8	21
136	Fatigue crack nucleation and growth in laser powder bed fusion AISi10Mg under as built and post-treated conditions. Materials and Design, 2021, 210, 110084.	3.3	22
137	Notch fatigue analysis and crack initiation life estimation of maraging steel fabricated by laser beam powder bed fusion under multiaxial loading. International Journal of Fatigue, 2021, 153, 106468.	2.8	11
138	Fatigue fracture and fatigue life assessment of railway wheel using nonâ€linear model for fatigue crack growth. International Journal of Fatigue, 2021, 153, 106516.	2.8	21
139	Geometry effects on mode I brittle fracture in Uâ€notched specimens. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 901-915.	1.7	5
140	A Semi-Analytical Model for the Heat Generation during Hybrid Metal Extrusion and Bonding (HYB). Materials, 2021, 14, 170.	1.3	9
141	About the influence of the elastoplastic properties of the adhesive on the value of the $\int_{\Gamma} \sigma_{xx} dx$ -integral in the DCB sample. International Journal of Fracture, 2021, 232, 43-54.	1.1	3
142	Influence of AlNb3.5B0.4 Grain Refinement on the Precipitation of Fe-rich Intermetallics in a secondary AlSi7Mg Alloy. , 2021, , .		0
143	Fatigue damage assessment in AM polymers evaluating their energy release. Procedia Structural Integrity, 2021, 34, 211-220.	0.3	1
144	Fracture assessment of U-notched PMMA under mixed mode I/II loading conditions by means of local approaches.. Procedia Structural Integrity, 2021, 33, 482-490.	0.3	5

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145	Preliminary in-situ study of FIB-assisted method for aluminium solid-state welding at the microscale. <i>Procedia Structural Integrity</i> , 2021, 33, 887-895.	0.3	0
146	TopFat methodology implemented in a commercial software: benchmarking validation. <i>Procedia Structural Integrity</i> , 2021, 34, 221-228.	0.3	0
147	Defect-Driven Topology Optimisation: TopFat algorithm extended to commercial software for wide-ranging applications. <i>Procedia Structural Integrity</i> , 2021, 33, 1095-1102.	0.3	0
148	Applicability of strain energy density criterion for fracture prediction of notched PLA specimens produced via fused deposition modeling. <i>Engineering Fracture Mechanics</i> , 2021, 258, 108103.	2.0	10
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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