

Filippo Berto

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

624 papers	18,185 citations	66 h-index	110 g-index
656 ext. papers	21,476 ext. citations	3.1 avg, IF	7.78 L-index

#	Paper	IF	Citations
624	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	2.9	0
623	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	2.3	3
622	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	5.5	2
621	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	5	1
620	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	5	5
619	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	5	1
618	Numerical analysis and discussion on the hot-spot stress concept applied to welded tubular KT joints. <i>Engineering Failure Analysis</i> , 2022 , 135, 106092	3.2	2
617	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	5	11
616	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	2.4	1
615	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	3	0
614	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	3	2
613	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	6.1	1
612	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	3	1
611	Fatigue behaviour of notched laser powder bed fusion AlSi10Mg after thermal and mechanical surface post-processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 829, 142145	5.3	9
610	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	5	1
609	Load sequence effects and cyclic deformation behaviour of 7075-T651 aluminium alloy. <i>International Journal of Fatigue</i> , 2022 , 155, 106593	5	4
608	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	1.6	0

607	Prediction of multiaxial fatigue life of notched maraging steel components manufactured by selective laser melting. <i>Procedia Structural Integrity</i> , 2022 , 39, 273-280	1	1
606	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	1	1
605	Metallurgical Characterization of Co-Cr-Mo Parts Processed by a Hybrid Manufacturing Technology. <i>Physical Mesomechanics</i> , 2022 , 25, 155-167	1.6	
604	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 840, 142747	5.3	1
603	Microstructural Observations of an AA6082-T6 Hybrid Metal Extrusion & Bonding (HYB) Butt Weld. <i>Materials Today Communications</i> , 2022 , 103489	2.5	
602	On the efficiency of machine learning for fatigue assessment of post-processed additively manufactured AlSi10Mg. <i>International Journal of Fatigue</i> , 2022 , 160, 106841	5	3
601	Misalignment effect on the fatigue failure behavior of load-carrying cruciform welded joints. <i>International Journal of Fatigue</i> , 2022 , 160, 106847	5	0
600	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	3	1
599	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	3	
598	Design against fatigue failures: lower bound P-S-N curves estimation and influence of runout data. <i>International Journal of Fatigue</i> , 2022 , 106934	5	0
597	Strain energy density approach as fatigue assessment of Ti6Al4V specimens machined by WEDM single step technology. <i>International Journal of Fatigue</i> , 2022 , 161, 106915	5	
596	Multiaxial Fatigue Behaviour of SLM 18Ni300 Steel. <i>Structural Integrity</i> , 2022 , 161-168	0.2	
595	Optimization of fatigue life of pearlitic Grade 900A steel based on the combination of genetic algorithm and artificial neural network. <i>International Journal of Fatigue</i> , 2022 , 162, 106975	5	0
594	Notch fatigue analysis and life assessment using an energy field intensity approach in 7050-T6 aluminium alloy under bending-torsion loading. <i>International Journal of Fatigue</i> , 2022 , 162, 106947	5	0
593	Mesh Size Effects on Fracture Locus of High Strength Bolts: A Mesoscale Critical Equivalent Plastic Strain (MCEPS) Approach. <i>Engineering Failure Analysis</i> , 2022 , 106385	3.2	0
592	Use of Low Melting Point Metals and Alloys ($T_m < 420\text{ }^{\circ}\text{C}$) as Phase Change Materials: A Review. <i>Metals</i> , 2022 , 12, 945	2.3	1
591	A Review on Antibacterial Biomaterials in Biomedical Applications: From Materials Perspective to Bioinks Design. <i>Polymers</i> , 2022 , 14, 2238	4.5	4
590	Quantifying lamellar microstructural effect on the fatigue performance of bimodal Ti-6Al-4V with microdefect. <i>International Journal of Fatigue</i> , 2022 , 107045	5	0

589	Geometry effects on mode I brittle fracture in U-notched specimens. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 901-915	3	1
588	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> , 2021 , 103155	3.7	0
587	Role of Metal 3D Printing to Increase Quality and Resource-efficiency in the Construction Sector. <i>Additive Manufacturing</i> , 2021 , 50, 102541	6.1	2
586	Fatigue damage assessment in AM polymers evaluating their energy release. <i>Procedia Structural Integrity</i> , 2021 , 34, 211-220	1	
585	Fracture assessment of U-notched PMMA under mixed mode I/II loading conditions by means of local approaches.. <i>Procedia Structural Integrity</i> , 2021 , 33, 482-490	1	1
584	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	1	
583	TopFat methodology implemented in a commercial software: benchmarking validation. <i>Procedia Structural Integrity</i> , 2021 , 34, 221-228	1	
582	Defect-Driven Topology Optimisation: TopFat algorithm extended to commercial software for wide-ranging applications. <i>Procedia Structural Integrity</i> , 2021 , 33, 1095-1102	1	
581	About the influence of the elastoplastic properties of the adhesive on the value of the $\{\varvec{v}ec{J}\}$ -integral in the DCB sample. <i>International Journal of Fracture</i> , 2021 , 232, 43	2.3	1
580	3D printed microneedles for transdermal drug delivery: A brief review of two decades. <i>International Journal of Pharmaceutics</i> , 2021 , 597, 120301	6.5	15
579	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 809, 140975	5.3	7
578	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 ²	3.2	2
577	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	1.6	2
576	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	2.9	1
575	Experimental characterization and theoretical prediction of quasi-static fracture behavior of notched ZK60-T5 Mg samples. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 1484-1497	3	0
574	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	4.7	7
573	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	30.9	102
572	Compression-induced crack initiation and growth in flawed rocks: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 1681	3	15

571	Very-high-cycle fatigue behavior of AlSi10Mg manufactured by selected laser melting: Crystal plasticity modeling. <i>International Journal of Fatigue</i> , 2021 , 145, 106109	5	16
570	Long solidification time effect on solution strengthened ferritic ductile iron fatigue properties. <i>International Journal of Fatigue</i> , 2021 , 145, 106137	5	7
569	Relationship between the microstructure and the heat treatment and creep behavior of Fe ₃ Ni ₁₉ Cr alloy. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 1719	3	1
568	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	3	8
567	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	3	2
566	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	3.7	3
565	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	4.1	7
564	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	1.6	2
563	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	2.3	1
562	Recent Advances in Chemically-Modified and Hybrid Carrageenan-Based Platforms for Drug Delivery, Wound Healing, and Tissue Engineering. <i>Polymers</i> , 2021 , 13,	4.5	11
561	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	3	5
560	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	3	2
559	A Comprehensive Review on Surface Modifications of Biodegradable Magnesium-Based Implant Alloy: Polymer Coatings Opportunities and Challenges. <i>Coatings</i> , 2021 , 11, 747	2.9	9
558	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	3	6
557	A Brief Review on Additive Manufacturing of Polymeric Composites and Nanocomposites. <i>Micromachines</i> , 2021 , 12,	3.3	6
556	Recent Advances on Bioprinted Gelatin Methacrylate-Based Hydrogels for Tissue Repair. <i>Tissue Engineering - Part A</i> , 2021 , 27, 679-702	3.9	17
555	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
554	Influence of Cu content on the microstructure and high-temperature tensile and fatigue properties of secondary AlSi7Mg0.3VZr alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 816, 141310	5.3	2

553	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	3	5
552	On the effect of the node and building orientation on the fatigue behavior of L-PBF Ti6Al4V lattice structure sub-unit elements. <i>Material Design and Processing Communications</i> , 2021 , 3, e258	0.9	1
551	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	3	0
550	Improving mechanical properties of wire-based EBAM Ti-6Al-4V parts by adding TiC powders. <i>Material Design and Processing Communications</i> , 2021 , 3, e136	0.9	2
549	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	2.1	1
548	Mechanical testing of gas metal arc AA6082-T6 weldments. <i>Material Design and Processing Communications</i> , 2021 , 3, e160	0.9	
547	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	1.3	11
546	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	18
545	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	5	19
544	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	3	15
543	Poly(methyl methacrylate) bone cement, its rise, growth, downfall and future. <i>Polymer International</i> , 2021 , 70, 1182-1201	3.3	3
542	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	5.3	9
541	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	3	7
540	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	5	10
539	Strain localization and cracking behavior of sandstone with two gypsum-infilled parallel flaws. <i>Theoretical and Applied Fracture Mechanics</i> , 2021 , 112, 102873	3.7	3
538	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	3.2	14
537	Experimental and numerical fretting fatigue using a new test fixture. <i>International Journal of Fatigue</i> , 2021 , 143, 106011	5	7
536	Microstructural and mechanical characterisation of a second generation hybrid metal extrusion & bonding aluminium-steel butt joint. <i>Materials Characterization</i> , 2021 , 173, 110761	3.9	4

535	Future of additive manufacturing in healthcare. <i>Current Opinion in Biomedical Engineering</i> , 2021 , 17, 100255	4.4	23
534	Fatigue behaviour of FDM-3D printed polymers, polymeric composites and architected cellular materials. <i>International Journal of Fatigue</i> , 2021 , 143, 106007	5	55
533	The mechanical testing and performance analysis of polymer-fibre composites prepared through the additive manufacturing. <i>Polymer Testing</i> , 2021 , 93, 106925	4.5	33
532	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	0.9	1
531	Fretting in medium-speed reciprocating engines: Comments on practices and opportunities. <i>Material Design and Processing Communications</i> , 2021 , 3, e201	0.9	
530	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	2.9	9
529	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	1.6	2
528	Strain Energy Density-Predicted Brittle Fracture of U-Notched Components under Combined Tension/Tear Loading. <i>Strength of Materials</i> , 2021 , 53, 1-10	0.6	1
527	Poly(methyl methacrylate)-Based Composite Bone Cements With Different Types of Reinforcement Agents 2021 , 867-886		
526	Additive Manufacturing of Polymer Matrix Composites 2021 , 1013-1028		3
525	Ductile fracture locus identification using mesoscale critical equivalent plastic strain. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 1292-1304	3	7
524	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	3	5
523	Fatigue assessment of cruciform joints: Comparison between Strain Energy Density predictions and current standards and recommendations. <i>Engineering Structures</i> , 2021 , 230, 111708	4.7	9
522	Fire Behavior of 3D-Printed Polymeric Composites. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 4745-4755	1.6	3
521	Recent advances on akermanite calcium-silicate ceramic for biomedical applications. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 1901	2	6
520	Probabilistic S-N curves for CFRP retrofitted steel details. <i>International Journal of Fatigue</i> , 2021 , 148, 106205	5	9
519	Additively manufactured Ti-6Al-4V 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	4.1	10
518	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	3.2	2

517	Fatigue performance prediction of Al-alloy 2024 plates in riveted joint structure. <i>Engineering Failure Analysis</i> , 2021 , 126, 105439	3.2	4
516	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	5	5
515	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	5	4
514	Effect of Heat Treatment on Microstructure and Creep Behavior of Fe-40Ni-24Cr Alloy. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7951	2.6	3
513	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	3.2	1
512	An investigation on fatigue behavior of AA2024 aluminum alloy sheets in fuselage lap joints. <i>Engineering Failure Analysis</i> , 2021 , 126, 105457	3.2	9
511	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	3	3
510	3-Dimensional Printing of Hydrogel-Based Nanocomposites: A Comprehensive Review on the Technology Description, Properties, and Applications. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100477	3.5	8
509	Multiaxial low cycle fatigue of notched 10CrNi3MoV steel and its undermatched welds. <i>International Journal of Fatigue</i> , 2021 , 150, 106309	5	2
508	Notch energy-based low and high cycle fatigue assessment of load-carrying cruciform welded joints considering the strength mismatch. <i>International Journal of Fatigue</i> , 2021 , 151, 106410	5	6
507	Effect of geometrical irregularities on fatigue of lead sheathing for submarine high voltage power cable applications. <i>International Journal of Fatigue</i> , 2021 , 151, 106399	5	
506	Mode III critical distance determination with optimized V-notched specimen under torsional fatigue and size effects on the inverse search probability distribution. <i>International Journal of Fatigue</i> , 2021 , 151, 106351	5	6
505	Comparison of different one-parameter damage laws and local stress-strain approaches in multiaxial fatigue life assessment of notched components. <i>International Journal of Fatigue</i> , 2021 , 151, 106405	5	21
504	Constant/variable amplitude multiaxial notch fatigue of additively manufactured AISI 316L. <i>International Journal of Fatigue</i> , 2021 , 152, 106412	5	7
503	Fatigue crack nucleation and growth in laser powder bed fusion AISi10Mg under as built and post-treated conditions. <i>Materials and Design</i> , 2021 , 210, 110084	8.1	8
502	Notch fatigue analysis and crack initiation life estimation of maraging steel fabricated by laser beam powder bed fusion under multiaxial loading. <i>International Journal of Fatigue</i> , 2021 , 153, 106468	5	2
501	Fatigue fracture and fatigue life assessment of railway wheel using non-linear model for fatigue crack growth. <i>International Journal of Fatigue</i> , 2021 , 153, 106516	5	10
500	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	4.2	1

499	Supershear Rupture Under Hydrostatic Pressure Condition. <i>Strength of Materials</i> , 2020 , 52, 497-506	0.6	1
498	Fatigue properties of AA6060-T6 butt welds made by hybrid metal extrusion & bonding. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 2349-2358	3	5
497	Study on the Size Dependence of Calibration Parameters of the New Local Approach Model for Cleavage Fracture. <i>Physical Mesomechanics</i> , 2020 , 23, 324-331	1.6	
496	Polymer Recycling in Additive Manufacturing: an Opportunity for the Circular Economy. <i>Materials Circular Economy</i> , 2020 , 2, 1	4.3	27
495	Electrospun Nano-Fibers for Biomedical and Tissue Engineering Applications: A Comprehensive Review. <i>Materials</i> , 2020 , 13,	3.5	55
494	Defects as a root cause of fatigue weakening of additively manufactured AlSi10Mg components. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 108, 102611	3.7	29
493	Fatigue behaviour of a multiphase medium carbon steel: Comparison between ferrite/pearlite and tempered microstructures. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 2542-2549	3.4	1
492	Eutectic Nucleation in 7xxx Series Aluminum Alloys from a Non-classical Viewpoint. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 4572-4583	2.3	6
491	Comparing physiologically relevant corrosion performances of Mg AZ31 alloy protected by ALD and sputter coated TiO ₂ . <i>Surface and Coatings Technology</i> , 2020 , 395, 125922	4.4	14
490	Three-Dimensional Printing Constructs Based on the Chitosan for Tissue Regeneration: State of the Art, Developing Directions and Prospect Trends. <i>Materials</i> , 2020 , 13,	3.5	27
489	Internal crack characteristics in very-high-cycle fatigue of a gradient structured titanium alloy. <i>Scientific Reports</i> , 2020 , 10, 4742	4.9	5
488	Simulating the dependence of the filler wire feeding on the wire size in the hybrid metal extrusion & bonding (HYB) process. <i>Procedia Structural Integrity</i> , 2020 , 26, 321-329	1	7
487	3D effects on Fracture Mechanics: corner point singularities. <i>Procedia Structural Integrity</i> , 2020 , 26, 336-347		3
486	The effects of microporosity in struts of gyroid lattice structures produced by laser powder bed fusion. <i>Materials and Design</i> , 2020 , 194, 108899	8.1	20
485	Deformation localization and cracking processes of sandstone containing two flaws of different geometric arrangements. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 1959-1977	3.7	8
484	Polymethyl Methacrylate-Based Bone Cements Containing Carbon Nanotubes and Graphene Oxide: An Overview of Physical, Mechanical, and Biological Properties. <i>Polymers</i> , 2020 , 12,	4.5	24
483	3D effects on Fracture Mechanics. <i>Procedia Structural Integrity</i> , 2020 , 25, 268-281	1	2
482	Microstructural analysis and fatigue crack initiation modelling of additively manufactured 316L after different heat treatments. <i>Materials and Design</i> , 2020 , 194, 108962	8.1	17

481	Relationship between ($\{J\}_c$) and the dissipation energy in the adhesive layer of a layered composite. <i>International Journal of Fracture</i> , 2020 , 224, 277-284	2.3	1
480	Design of Wear-Resistant Diecast AlSi9Cu3(Fe) Alloys for High-Temperature Components. <i>Metals</i> , 2020 , 10, 55	2.3	4
479	Non-linear fatigue propagation of multiple cracks in an aluminium metal matrix composite (AlMMC) with silicon-carbide fibre reinforcement. <i>Material Design and Processing Communications</i> , 2020 , 2, e119	0.9	1
478	Stress corrosion cracking behavior of zirconia ALD-coated AZ31 alloy in simulated body fluid. <i>Material Design and Processing Communications</i> , 2020 , 2, e126	0.9	0
477	Preparation of poly(ϵ -caprolactone)-hydroxyapatite composite coating for improvement of corrosion performance of biodegradable magnesium. <i>Material Design and Processing Communications</i> , 2020 , 2, e170	0.9	4
476	Fatigue behaviour of pitted/cracked high-strength steel wires based on the SED approach. <i>International Journal of Fatigue</i> , 2020 , 135, 105564	5	3
475	Evaluation of fracture mode classification in flawed red sandstone under uniaxial compression. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 107, 102528	3.7	24
474	Rapid strain energy density evaluation for V-notches under mode I loading conditions. <i>Engineering Failure Analysis</i> , 2020 , 110, 104361	3.2	10
473	Fracture Analysis in Brittle Sandstone by Digital Imaging and AE Techniques: Role of Flaw Length Ratio. <i>Journal of Materials in Civil Engineering</i> , 2020 , 32, 04020085	3	27
472	Finite element modelling of the filler wire feeding in the hybrid metal extrusion & bonding (HYB) process. <i>Journal of Advanced Joining Processes</i> , 2020 , 1, 100006	2.1	6
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