## Filippo Berto

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2239706/publications.pdf Version: 2024-02-01



FILIDDO REDTO

#	Article	IF	CITATIONS
1	Investigation of creep damage mechanical behaviors of red sandstone considering temperature effect. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 411-424.	1.7	14
2	Creep damage behaviors of red sandstone subjected to uniaxial compression after highâ€ŧemperature heat treatment using acoustic emission technology. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 302-322.	1.7	15
3	Fatigue behaviour of notched laser powder bed fusion AlSi10Mg after thermal and mechanical surface post-processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 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). International Journal of Fatigue, 2022, 155, 106586.	2.8	7
5	Load sequence effects and cyclic deformation behaviour of 7075-T651 aluminium alloy. International Journal of Fatigue, 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. Theoretical and Applied Fracture Mechanics, 2022, 117, 103155.	2.1	6
7	Strength mismatch effect on residual stress of 10CrNi3MoV steel considering the back-chipping process. International Journal of Pressure Vessels and Piping, 2022, 195, 104570.	1.2	4
8	Effect of stress ratios on corrosion fatigue life of highâ€strength steel wires. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 593-606.	1.7	5
9	Statistical models for estimating the fatigue life, the stress–life relation, and the Pâ€S–N curves of metallic materials in Very High Cycle Fatigue: A review. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 332-370.	1.7	27
10	Higher order stress terms in sharp notch problems under pureâ€outâ€ofâ€plane loading. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 500.	1.7	4
11	Role of metal 3D printing to increase quality and resource-efficiency in the construction sector. Additive Manufacturing, 2022, 50, 102541.	1.7	24
12	A stateâ€ofâ€theâ€art review on creep damage mechanics of rocks. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 627-652.	1.7	25
13	Editorial: Renewal of FFEMS Editorial Board. Fatigue and Fracture of Engineering Materials and Structures, 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. Additive Manufacturing, 2022, 50, 102570.	1.7	3
15	Anodizing Al–Si Foundry Alloys: A Critical Review. Advanced Engineering Materials, 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. Coatings, 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. Metals, 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. International Journal of Mechanical Sciences, 2022, 218, 107089.	3.6	10

#	Article	IF	CITATIONS
19	Fatigue crack growth of a railway wheel steel and fatigue life prediction under spectrum loading conditions. International Journal of Fatigue, 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. International Journal of Fatigue, 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. International Journal of Fatigue, 2022, 159, 106787.	2.8	2
22	Numerical analysis and discussion on the hot-spot stress concept applied to welded tubular KT joints. Engineering Failure Analysis, 2022, 135, 106092.	1.8	9
23	Probabilistic fatigue modelling of metallic materials under notch and size effect using the weakest link theory. International Journal of Fatigue, 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. Physical Mesomechanics, 2022, 25, 85-96.	1.0	5
25	Prediction of multiaxial fatigue life of notched maraging steel components manufactured by selective laser melting. Procedia Structural Integrity, 2022, 39, 273-280.	0.3	1
26	Defect-Driven Topology Optimisation: TopFat algorithm validation via 3D components re-design for real industrial applications. Procedia Structural Integrity, 2022, 39, 81-88.	0.3	3
27	Metallurgical Characterization of Co-Cr-Mo Parts Processed by a Hybrid Manufacturing Technology. Physical Mesomechanics, 2022, 25, 155-167.	1.0	Ο
28	Graphene oxide encapsulated forsterite scaffolds to improve mechanical properties and antibacterial behavior. Biomedical Materials (Bristol), 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. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142747.	2.6	10
30	Microstructural observations of an AA6082-T6 Hybrid Metal Extrusion & Bonding (HYB) butt weld. Materials Today Communications, 2022, 31, 103489.	0.9	1
31	Antimicrobial Synthetic and Natural Polymeric Nanofibers as Wound Dressing: A Review. Advanced Engineering Materials, 2022, 24, .	1.6	30
32	On the efficiency of machine learning for fatigue assessment of post-processed additively manufactured AlSi10Mg. International Journal of Fatigue, 2022, 160, 106841.	2.8	31
33	Misalignment effect on the fatigue failure behavior of load-carrying cruciform welded joints. International Journal of Fatigue, 2022, 160, 106847.	2.8	9
34	Experimental study on the progressive failure of doubleâ€flawed granite samples subjected to impact loads. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 653-670.	1.7	11
35	Analytical prediction of the fatigue limit for axisymmetric round bars with rough surface morphology. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 739-753.	1.7	1
36	Design against fatigue failures: Lower bound P-S-N curves estimation and influence of runout data. International Journal of Fatigue, 2022, 162, 106934.	2.8	13

#	Article	IF	CITATIONS
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	Stick–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 (Tm < 420 °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

#	Article	IF	CITATIONS
55	Electrospun biomimetic polymer nanofibers as vascular grafts. Material Design and Processing Communications, 2021, 3, e203.	0.5	6
56	Sustainable nanofibers in tissue engineering and biomedical applications. Material Design and Processing Communications, 2021, 3, e202.	0.5	10
57	Improving mechanical properties of wireâ€based EBAM <scp>Tiâ€6Alâ€4V</scp> parts by adding <scp>TiC</scp> powders. Material Design and Processing Communications, 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. Materials Technology, 2021, 36, 564-573.	1.5	5
59	Mechanical testing of gas metal arc AA6082â€T6 weldments. Material Design and Processing Communications, 2021, 3, e160.	0.5	0
60	Porosity effect on tensile behavior of Ti-6Al-4V specimens produced by laser engineered net shaping technology. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 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. International Journal of Fatigue, 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. International Journal of Fatigue, 2021, 142, 105926.	2.8	41
63	Influence of processing parameters of selective laser melting on highâ€cycle and veryâ€highâ€cycle fatigue behaviour of Tiâ€6Alâ€4V. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 240-256.	1.7	50
64	Poly(methyl methacrylate) bone cement, its rise, growth, downfall and future. Polymer International, 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. Journal of Materials Processing Technology, 2021, 290, 116981.	3.1	23
66	Cracking behaviours of rockâ€like materials containing three preexisting flaws after highâ€ŧemperature treatments. Fatigue and Fracture of Engineering Materials and Structures, 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. International Journal of Fatigue, 2021, 142, 105958.	2.8	21
68	Strain localization and cracking behavior of sandstone with two gypsum-infilled parallel flaws. Theoretical and Applied Fracture Mechanics, 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. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 719-732.	1.7	34
70	Experimental and numerical fretting fatigue using a new test fixture. International Journal of Fatigue, 2021, 143, 106011.	2.8	18
71	Microstructural and mechanical characterisation of a second generation hybrid metal extrusion & bonding aluminium-steel butt joint. Materials Characterization, 2021, 173, 110761.	1.9	9
72	Future of additive manufacturing in healthcare. Current Opinion in Biomedical Engineering, 2021, 17, 100255.	1.8	60

#	Article	IF	CITATIONS
73	Fatigue behaviour of FDM-3D printed polymers, polymeric composites and architected cellular materials. International Journal of Fatigue, 2021, 143, 106007.	2.8	176
74	The mechanical testing and performance analysis of polymer-fibre composites prepared through the additive manufacturing. Polymer Testing, 2021, 93, 106925.	2.3	162
75	Fatigue strength assessment of heavy section ductile irons through the average strain density energy criterion. Material Design and Processing Communications, 2021, 3, e197.	0.5	1
76	Fretting in mediumâ€speed reciprocating engines—Comments on practices and opportunities. Material Design and Processing Communications, 2021, 3, e201.	0.5	1
77	The influence of size and healing content on the performance of extrinsic selfâ€healing coatings. Journal of Applied Polymer Science, 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. Physical Mesomechanics, 2021, 24, 65-76.	1.0	5
79	Strain Energy Density-Predicted Brittle Fracture of U-Notched Components Under Combined Tension/Tear Loading. Strength of Materials, 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. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1292-1304.	1.7	12
83	Quasiâ€static compression and compression–compression fatigue behavior of regular and irregular cellular biomaterials. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1178-1194.	1.7	13
84	Fatigue assessment of cruciform joints: Comparison between Strain Energy Density predictions and current standards and recommendations. Engineering Structures, 2021, 230, 111708.	2.6	18
85	Fire Behavior of 3D-Printed Polymeric Composites. Journal of Materials Engineering and Performance, 2021, 30, 4745-4755.	1.2	14
86	3D printed microneedles for transdermal drug delivery: A brief review of two decades. International Journal of Pharmaceutics, 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. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 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. International Journal of Advanced Manufacturing Technology, 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. Physical Mesomechanics, 2021, 24, 335-342.	1.0	4
90	Resourceâ€efficient joint fabrication by welding metal 3Dâ€printed parts to conventional steel: A structural integrity study. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1271-1291.	1.7	13

#	Article	IF	CITATIONS
91	Experimental characterization and theoretical prediction of quasiâ€static fracture behavior of notched ZK60â€T5 Mg samples. Fatigue and Fracture of Engineering Materials and Structures, 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. Engineering Structures, 2021, 230, 111716.	2.6	14
93	Architected cellular materials: A review on their mechanical properties towards fatigue-tolerant design and fabrication. Materials Science and Engineering Reports, 2021, 144, 100606.	14.8	316
94	Compressionâ€induced crack initiation and growth in flawed rocks: A review. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1681-1707.	1.7	54
95	Very-high-cycle fatigue behavior of AlSi10Mg manufactured by selected laser melting: Crystal plasticity modeling. International Journal of Fatigue, 2021, 145, 106109.	2.8	52
96	Long solidification time effect on solution strengthened ferritic ductile iron fatigue properties. International Journal of Fatigue, 2021, 145, 106137.	2.8	16
97	Relationship between the microstructure and the heat treatment and creep behavior of Fe–33Ni–19Cr alloy. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1719-1738.	1.7	3
98	A novel predictive model for multiaxial fatigue in carburized bevel gears. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 2033-2053.	1.7	18
99	Fatigue fracture assessment of 10CrNi3MoV welded loadâ€carrying cruciform joints considering mismatch effect. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1739-1759.	1.7	6
100	Failure characteristics of coarse and fine sandstone containing two parallel fissures subjected to true triaxial stresses. Theoretical and Applied Fracture Mechanics, 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. Journal of the Mechanical Behavior of Biomedical Materials, 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. Physical Mesomechanics, 2021, 24, 486-502.	1.0	10
103	Compressive-shear fracture model of the phase-field method coupled with a modified Hoek–Brown criterion. International Journal of Fracture, 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. Polymers, 2021, 13, 1744.	2.0	48
105	Crack initiation and propagation from geometric microdefects: Experiment and transition fatigue behavior. Fatigue and Fracture of Engineering Materials and Structures, 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. Fatigue and Fracture of Engineering Materials and Structures, 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. Coatings, 2021, 11, 747.	1.2	48
108	Smoothed peridynamics for the extremely large deformation and cracking problems: Unification of peridynamics and smoothed particle hydrodynamics. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 2444-2461.	1.7	21

#	Article	IF	CITATIONS
109	A Brief Review on Additive Manufacturing of Polymeric Composites and Nanocomposites. Micromachines, 2021, 12, 704.	1.4	19
110	Recent Advances on Bioprinted Gelatin Methacrylate-Based Hydrogels for Tissue Repair. Tissue Engineering - Part A, 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. Polymers, 2021, 13, 2075.	2.0	7
112	Innovative formulation for topological fatigue optimisation based on material defects distribution and TopFat algorithm. International Journal of Fatigue, 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. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 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 selfâ€compacting concrete. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 2659-2673.	1.7	24
115	Heat Treatments for Stress Relieving AlSi9Cu3 Alloy Produced by Laser Powder Bed Fusion. Materials, 2021, 14, 4184.	1.3	8
116	On the effect of the node and building orientation on the fatigue behavior of Lâ€PBF Ti6Al4V lattice structure subâ€unital elements. Material Design and Processing Communications, 2021, 3, e258.	0.5	4
117	Fracture analysis of rock reconstruction models based on cooling–solidification annealing algorithms. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 2503-2523.	1.7	8
118	Recent advances on akermanite calciumâ€silicate ceramic for biomedical applications. International Journal of Applied Ceramic Technology, 2021, 18, 1901-1920.	1.1	22
119	Probabilistic S-N curves for CFRP retrofitted steel details. International Journal of Fatigue, 2021, 148, 106205.	2.8	26
120	Additively manufactured Ti–6Al–4V thin struts via laser powder bed fusion: Effect of building orientation on geometrical accuracy and mechanical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 119, 104495.	1.5	40
121	Experimental and numerical investigations of oxide-related defects in Al alloy gravity die castings. International Journal of Advanced Manufacturing Technology, 2021, 117, 1765-1780.	1.5	8
122	Fatigue performance prediction of Al-alloy 2024 plates in riveted joint structure. Engineering Failure Analysis, 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. International Journal of Fatigue, 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. International Journal of Fatigue, 2021, 149, 106261.	2.8	5
125	Effect of Heat Treatment on Microstructure and Creep Behavior of Fe-40Ni-24Cr Alloy. Applied Sciences (Switzerland), 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. Engineering Failure Analysis, 2021, 126, 105429.	1.8	7

#	Article	IF	CITATIONS
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 AlSi10Mg 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 \$\${varvec{J}}\$\$-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

#	Article	IF	CITATIONS
145	Preliminary in-situ study of FIB-assisted method for aluminium solid-state welding at the microscale. Procedia Structural Integrity, 2021, 33, 887-895.	0.3	0
146	TopFat methodology implemented in a commercial software: benchmarking validation. Procedia Structural Integrity, 2021, 34, 221-228.	0.3	0
147	Defect-Driven Topology Optimisation: TopFat algorithm extended to commercial software for wide-ranging applications. Procedia Structural Integrity, 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. Engineering Fracture Mechanics, 2021, 258, 108103.	2.0	10
149	Fatigue crack initiation behaviour of notched 34CrNiMo6 steel bars under proportional bending-torsion loading. International Journal of Fatigue, 2020, 130, 105268.	2.8	28
150	Collection of experimental data for multiaxial fatigue criteria verification. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 162-174.	1.7	12
151	3D Printing of polymer composites: A short review. Material Design and Processing Communications, 2020, 2, e97.	0.5	58
152	Enhancement of stress corrosion cracking of AZ31 magnesium alloy in simulated body fluid thanks to cryogenic machining. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 101, 103429.	1.5	35
153	Dynamic splitting tensile properties of concrete and cement mortar. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 757-770.	1.7	27
154	Elastic stress analysis of blunt V-notches under mixed mode loading by considering higher order terms. Applied Mathematical Modelling, 2020, 78, 665-684.	2.2	27
155	Efficient implementation of critical plane for 3D stress histories using triangular elements. International Journal of Fatigue, 2020, 134, 105448.	2.8	8
156	A diagram for capturing and predicting failure locations in notch geometries produced by additive manufacturing. International Journal of Fatigue, 2020, 134, 105428.	2.8	24
157	In-situ investigation on fatigue behaviors of Ti-6Al-4V manufactured by selective laser melting. International Journal of Fatigue, 2020, 133, 105424.	2.8	60
158	Simple and effective approach to modeling crack propagation in the framework of extended finite element method. Theoretical and Applied Fracture Mechanics, 2020, 106, 102452.	2.1	26
159	In vitro and in vivo evaluation of chitosan-alginate/gentamicin wound dressing nanofibrous with high antibacterial performance. Polymer Testing, 2020, 82, 106298.	2.3	107
160	Regenerative medicine and drug delivery: Progress via electrospun biomaterials. Materials Science and Engineering C, 2020, 109, 110521.	3.8	70
161	Strain energy density evaluation with free coarse mesh model. Material Design and Processing Communications, 2020, 2, e116.	0.5	0
162	Guest editorial: Characterisation of crack tip fields-CCTF5. International Journal of Fatigue, 2020, 140, 105618.	2.8	1

#	Article	IF	CITATIONS
163	A novel semi-analytical method for notch stress and fatigue strength analysis of tube-flange welded joints. International Journal of Fatigue, 2020, 141, 105860.	2.8	1
164	Carbon Nanotubes (CNTs)-Reinforced Magnesium-Based Matrix Composites: A Comprehensive Review. Materials, 2020, 13, 4421.	1.3	70
165	Crack bifurcation in sharp V-notches. Theoretical and Applied Fracture Mechanics, 2020, 110, 102790.	2.1	3
166	Qualification of the hybrid metal extrusion & bonding (HYB) process for welding of aluminium offshore structures. Material Design and Processing Communications, 2020, 3, e194.	0.5	1
167	The Flame Retardancy of Polyethylene Composites: From Fundamental Concepts to Nanocomposites. Molecules, 2020, 25, 5157.	1.7	46
168	Improving stress corrosion cracking behavior of AZ31 alloy with conformal thin titania and zirconia coatings for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 111, 104005.	1.5	23
169	Cracking process and acoustic emission characteristics of sandstone with two parallel filled-flaws under biaxial compression. Engineering Fracture Mechanics, 2020, 237, 107253.	2.0	55
170	Crack resistance behaviour of aluminium alloy for aircraft skin with bionic coupling units processed by laser cladding. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 2756-2760.	1.7	9
171	Fatigue of V-notched ZK60 magnesium samples: X-ray damage evolution characterization and failure prediction. International Journal of Fatigue, 2020, 139, 105734.	2.8	12
172	Postâ€ŧreatment selection for tailored fatigue performance of 18Ni300 maraging steel manufactured by laser powder bed fusion. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 2359-2375.	1.7	31
173	Modelling shear loading of a cantilever with a crack-like defect explicitly including linear parameters. International Journal of Solids and Structures, 2020, 193-194, 447-454.	1.3	2
174	Loss of integrity of hydrogen technologies: A critical review. International Journal of Hydrogen Energy, 2020, 45, 23809-23840.	3.8	81
175	Fatigue assessment of asâ€built and heatâ€treated Inconel 718 specimens produced by additive manufacturing including notch effects. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 2326-2336.	1.7	34
176	Novel hybridized adaptive neuroâ€fuzzy inference system models based particle swarm optimization and genetic algorithms for accurate prediction of stress intensity factor. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 2653-2667.	1.7	35
177	Fatigue assessment of high strength welded joints through the strain energy density method. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 2694-2702.	1.7	31
178	Porosity Inducing Process Parameters in Selective Laser Melted AlSi10Mg Aluminium Alloy. Physical Mesomechanics, 2020, 23, 256-262.	1.0	26
179	Adhesively bonded joint brittle fracture assessment via average strain energy density criterion. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 2907-2914.	1.7	5
180	Graphene Family Nanomaterial Reinforced Magnesium-Based Matrix Composites for Biomedical Application: A Comprehensive Review. Metals, 2020, 10, 1002.	1.0	39

#	Article	IF	CITATIONS
181	Recent Trends in Three-Dimensional Bioinks Based on Alginate for Biomedical Applications. Materials, 2020, 13, 3980.	1.3	49
182	Multiaxial fatigue life assessment in notched components based on the effective strain energy density. Procedia Structural Integrity, 2020, 28, 1808-1815.	0.3	4
183	A First Approach on Modelling the Thermal and Microstructure Fields During Aluminium Butt Welding Using the HYB PinPoint Extruder. Procedia Structural Integrity, 2020, 28, 2253-2260.	0.3	6
184	Antioxidant, Antimicrobial and Antiviral Properties of Herbal Materials. Antioxidants, 2020, 9, 1309.	2.2	199
185	Supershear Rupture Under Hydrostatic Pressure Condition. Strength of Materials, 2020, 52, 497-506.	0.2	3
186	Fatigue properties of AA6060â€T6 butt welds made by hybrid metal extrusion & bonding. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 2349-2358.	1.7	8
187	Study on the Size Dependence of Calibration Parameters of the New Local Approach Model for Cleavage Fracture. Physical Mesomechanics, 2020, 23, 324-331.	1.0	0
188	Polymer Recycling in Additive Manufacturing: an Opportunity for the Circular Economy. Materials Circular Economy, 2020, 2, 1.	1.6	95
189	Characterisation of crack tip fields—CCTF5. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1609-1610.	1.7	0
190	Electrospun Nano-Fibers for Biomedical and Tissue Engineering Applications: A Comprehensive Review. Materials, 2020, 13, 2153.	1.3	108
191	Defects as a root cause of fatigue weakening of additively manufactured AlSi10Mg components. Theoretical and Applied Fracture Mechanics, 2020, 108, 102611.	2.1	50
192	Fatigue behaviour of a multiphase medium carbon steel: Comparison between ferrite/pearlite and tempered microstructures. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 2542-2549.	1.7	3
193	Eutectic Nucleation in 7xxx Series Aluminum Alloys from a Non-classical Viewpoint. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4572-4583.	1.1	15
194	Comparing physiologically relevant corrosion performances of Mg AZ31 alloy protected by ALD and sputter coated TiO2. Surface and Coatings Technology, 2020, 395, 125922.	2.2	26
195	Three-Dimensional Printing Constructs Based on the Chitosan for Tissue Regeneration: State of the Art, Developing Directions and Prospect Trends. Materials, 2020, 13, 2663.	1.3	52
196	Internal crack characteristics in very-high-cycle fatigue of a gradient structured titanium alloy. Scientific Reports, 2020, 10, 4742.	1.6	11
197	Simulating the dependence of the filler wire feeding on the wire size in the hybrid metal extrusion & bonding (HYB) process. Procedia Structural Integrity, 2020, 26, 321-329.	0.3	9
198	3D effects on Fracture Mechanics: corner point singularities. Procedia Structural Integrity, 2020, 26, 336-347.	0.3	3

#	Article	IF	CITATIONS
199	The effects of microporosity in struts of gyroid lattice structures produced by laser powder bed fusion. Materials and Design, 2020, 194, 108899.	3.3	43
200	Deformation localization and cracking processes of sandstone containing two flaws of different geometric arrangements. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1959-1977.	1.7	14
201	Polymethyl Methacrylate-Based Bone Cements Containing Carbon Nanotubes and Graphene Oxide: An Overview of Physical, Mechanical, and Biological Properties. Polymers, 2020, 12, 1469.	2.0	52
202	3D effects on Fracture Mechanics. Procedia Structural Integrity, 2020, 25, 268-281.	0.3	3
203	Microstructural analysis and fatigue crack initiation modelling of additively manufactured 316L after different heat treatments. Materials and Design, 2020, 194, 108962.	3.3	40
204	Relationship between \$\${J}_{c}\$\$ and the dissipation energy in the adhesive layer of a layered composite. International Journal of Fracture, 2020, 224, 277-284.	1.1	5
205	Design of Wear-Resistant Diecast AlSi9Cu3(Fe) Alloys for High-Temperature Components. Metals, 2020, 10, 55.	1.0	7
206	Nonâ€linear fatigue propagation of multiple cracks in an aluminium metal matrix composite (AlMMC) with silicon arbide fibre reinforcement. Material Design and Processing Communications, 2020, 2, e119.	0.5	2
207	Stress corrosion cracking behavior of zirconia ALD–coated AZ31 alloy in simulated body fluid. Material Design and Processing Communications, 2020, 2, e126.	0.5	1
208	Preparation of poly(εâ€caprolactone)â€hydroxyapatite composite coating for improvement of corrosion performance of biodegradable magnesium. Material Design and Processing Communications, 2020, 2, e170.	0.5	5
209	Fatigue behaviour of pitted/cracked high-strength steel wires based on the SED approach. International Journal of Fatigue, 2020, 135, 105564.	2.8	6
210	Evaluation of fracture mode classification in flawed red sandstone under uniaxial compression. Theoretical and Applied Fracture Mechanics, 2020, 107, 102528.	2.1	60
211	Rapid strain energy density evaluation for V-notches under mode I loading conditions. Engineering Failure Analysis, 2020, 110, 104361.	1.8	16
212	Fracture Analysis in Brittle Sandstone by Digital Imaging and AE Techniques: Role of Flaw Length Ratio. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	38
213	Finite element modelling of the filler wire feeding in the hybrid metal extrusion & bonding (HYB) process. Journal of Advanced Joining Processes, 2020, 1, 100006.	1.5	9
214	XFEM based node scheme for the frictional contact crack problem. Computers and Structures, 2020, 231, 106221.	2.4	23
215	Microstructure refinement and grain size distribution in crack initiation region of very-high-cycle fatigue regime for high-strength alloys. International Journal of Fatigue, 2020, 134, 105473.	2.8	12
216	Recent advances on notch effects in metal fatigue: A review. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 637-659.	1.7	144

#	Article	IF	CITATIONS
217	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.	2.8	82
218	Mechanical and fracture properties of aluminium cylinders manufactured by orbital friction stir welding. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1514-1528.	1.7	13
219	Synchrotron X-ray micro-computed tomography imaging of 3D re-entrant micro lattice during in situ micro compression experimental process. Materials and Design, 2020, 192, 108743.	3.3	17
220	Continuous smoothed particle hydrodynamics for cracked nonconvex bodies by diffraction criterion. Theoretical and Applied Fracture Mechanics, 2020, 108, 102584.	2.1	13
221	The effect of defects and notches in quasi-static and fatigue loading of Inconel 718 specimens produced by selective laser melting. International Journal of Fatigue, 2020, 137, 105637.	2.8	36
222	High temperature fatigue of heat treated secondary AlSi7Cu3Mg alloys. International Journal of Fatigue, 2020, 138, 105685.	2.8	11
223	Subsea power cable sheathing: an investigation of lead fatigue performance. Procedia Structural Integrity, 2020, 28, 344-351.	0.3	2
224	Experimental Study of the Mechanism of TBM Disk Cutter Penetration in Mixed-Faced Grounds under Confining Pressure. Journal of Testing and Evaluation, 2020, 48, 2270-2294.	0.4	5
225	Fatigue Assessment of 17-4 PH Stainless Steel Notched Specimens Made by Direct Metal Laser Sintering. , 2020, , 415-422.		0
226	Validation of the Averaged Strain Energy Density Criterion for Additively Manufactured Notched Polylactide Acid Specimens. Procedia Structural Integrity, 2020, 28, 2099-2103.	0.3	9
227	Analytical Thermal Stress Analysis of Perforated Symmetric Composite Laminates Containing a Quasi-Triangular Hole. Physical Mesomechanics, 2020, 23, 514-530.	1.0	2
228	Acoustic emission study on the effect of notch shape and temperature on elastic energy release during impact testing of 17Mn1Si pipe steel. Engineering Fracture Mechanics, 2019, 210, 288-299.	2.0	3
229	Fractional Order Thermoelastic Wave Assessment in a Nanoscale Beam Using the Eigenvalue Technique. Strength of Materials, 2019, 51, 427-438.	0.2	3
230	Editorial to the first special issue. Material Design and Processing Communications, 2019, 1, e21.	0.5	0
231	Study of the influence of notch radii and temperature on the probability of failure: A methodology to perform a combined assessment. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2663-2673.	1.7	6
232	Improved stress and displacement fields around V-notches with end holes. Engineering Fracture Mechanics, 2019, 217, 106539.	2.0	15
233	Lowâ€ŧemperature fatigue life properties of aluminum butt weldments by the means of the local strain energy density approach. Material Design and Processing Communications, 2019, 1, e30.	0.5	8
234	A status report on the hybrid metal extrusion & bonding ( <scp>HYB</scp> ) process and its applications. Material Design and Processing Communications, 2019, 1, e41.	0.5	15

#	Article	IF	CITATIONS
235	Fatigue of additively manufactured 316L stainless steel: The influence of porosity and surface roughness. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2043-2052.	1.7	114
236	Editorial: Special issue for celebrating the 40th anniversary of FFEMS. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1847-1848.	1.7	0
237	Estimation of stress field for sharp V-notch in power-law creeping solids: An asymptotic viewpoint. International Journal of Solids and Structures, 2019, 180-181, 189-204.	1.3	15
238	Experimental study of the simultaneous effect of nano-silica and nano-carbon black on permeability and mechanical properties of the concrete. Theoretical and Applied Fracture Mechanics, 2019, 104, 102391.	2.1	46
239	Assessment of the Mechanical Integrity of a 2 mm AA6060-T6 Butt Weld Produced Using the Hybrid Metal Extrusion & Bonding (HYB) Process – Part II: Tensile Test Results. Procedia Structural Integrity, 2019, 17, 632-642.	0.3	10
240	Rapid extrapolation of highâ€ŧemperature low•ycle fatigue curves for a nickel superalloy. Material Design and Processing Communications, 2019, 1, e104.	0.5	4
241	Crack closure in friction stir weldment using nonâ€linear model for fatigue crack propagation. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2596-2608.	1.7	10
242	Assessment of the Mechanical Integrity of a 2 mm AA6060-T6 Butt Weld Produced Using the Hybrid Metal Extrusion & Bonding (HYB) Process – Part I: Bend Test Results. Procedia Manufacturing, 2019, 34, 147-153.	1.9	8
243	Progress in Solid State Joining of Metals and Alloys. Procedia Structural Integrity, 2019, 17, 788-798.	0.3	18
244	Non-linear models for assessing the fatigue crack behaviour under cyclic biaxial loading in a cruciform specimen. Theoretical and Applied Fracture Mechanics, 2019, 100, 14-26.	2.1	11
245	Numerical simulation of supershear ruptures in rock mass based on general particle dynamics. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 905-918.	1.7	7
246	Mixed numericalâ€experimental method for generation of energyâ€life fatigue master curves. Material Design and Processing Communications, 2019, 1, e37.	0.5	2
247	A new fixture for fracture tests under mixed mode I/II/III loading. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1874-1888.	1.7	29
248	Highâ€cycle and veryâ€highâ€cycle fatigue behaviour of a titanium alloy with equiaxed microstructure under different mean stresses. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1950-1964.	1.7	42
249	Mechanical design and multifunctional applications of chiral mechanical metamaterials: A review. Materials and Design, 2019, 180, 107950.	3.3	379
250	Special issue engineering against failure. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1429-1429.	1.7	0
251	Directed Energy Deposition versus Wrought Tiâ€6Alâ€4V: A Comparison of Microstructure, Fatigue Behavior, and Notch Sensitivity. Advanced Engineering Materials, 2019, 21, 1900220.	1.6	50
252	Proportional/nonproportional constant/variable amplitude multiaxial notch fatigue: cyclic plasticity, nonâ€zero mean stresses, and critical distance/plane. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1849-1873.	1.7	35

#	Article	IF	CITATIONS
253	Inverse determination of the fatigue Strain Energy Density control radius for conventionally and additively manufactured rounded V-notches. International Journal of Fatigue, 2019, 126, 306-318.	2.8	26
254	Cyclic plastic behavior of additively manufactured Ti-6Al-4V under uniaxial and multiaxial non-proportional loading. International Journal of Fatigue, 2019, 126, 155-164.	2.8	16
255	Progressive failure of brittle rocks with nonâ€isometric flaws: Insights from acoustoâ€opticâ€mechanical (AOM) data. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1787-1802.	1.7	102
256	Guest editorial: Advanced design and fatigue assessment of structural components. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1217-1218.	1.7	4
257	An experimental study of the mechanical and fracturing behavior in PMMA specimen containing multiple 3D embedded flaws under uniaxial compression. Theoretical and Applied Fracture Mechanics, 2019, 101, 207-216.	2.1	35
258	Rapid assessment of multiaxial fatigue lifetime in notched components using an averaged strain energy density approach. International Journal of Fatigue, 2019, 124, 89-98.	2.8	42
259	3D numerical simulation of initiation, propagation and coalescence of cracks using the extended non-ordinary state-based peridynamics. Theoretical and Applied Fracture Mechanics, 2019, 101, 254-268.	2.1	39
260	Nanomaterials: Solutions to Water-Concomitant Challenges. Membranes, 2019, 9, 40.	1.4	27
261	An analytical framework for modelling intermetallic compound ( <scp>IMC</scp> ) formation and optimising bond strength in aluminiumâ€steel welds. Material Design and Processing Communications, 2019, 1, e57.	0.5	14
262	Nonlinear fatigue crack propagation in a baffle module of Wendelstein 7â€X under cyclic bending loads. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1711-1721.	1.7	3
263	On the Effect of Slight Variations of Si, Mn, and Ti on Inclusions Properties, Microstructure, and Mechanical Properties of YS460 C-Mn Steel Welds. Metallography, Microstructure, and Analysis, 2019, 8, 292-306.	0.5	8
264	A Review of Recent Advances in Nanoengineered Polymer Composites. Polymers, 2019, 11, 644.	2.0	48
265	Simulation of cracking behaviours in interlayered rocks with flaws subjected to tension using a phaseâ€field method. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1679-1698.	1.7	15
266	Experimental study on effects of freezeâ€ŧhaw fatigue damage on the cracking behaviors of sandstone containing two unparallel fissures. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1322-1340.	1.7	52
267	Effect of post-treatments on the fatigue behaviour of 316L stainless steel manufactured by laser powder bed fusion. International Journal of Fatigue, 2019, 123, 31-39.	2.8	125
268	Calculation of 3D residual notch stress intensity factors by means of the peak stress method. Theoretical and Applied Fracture Mechanics, 2019, 100, 377-382.	2.1	10
269	Fatigue Behavior of Inorganic-Organic Hybrid "Lunar Cement― Scientific Reports, 2019, 9, 2238.	1.6	8
270	Comparison of TCD and SED methods in fatigue lifetime assessment. International Journal of Fatigue, 2019, 123, 105-134.	2.8	42

#	Article	IF	CITATIONS
271	Robustnessâ€oriented topology optimization for steel tubular joints mimicking bamboo structures. Material Design and Processing Communications, 2019, 1, e43.	0.5	10
272	A comparison between numerical and approximate methods for rapid calculation of NSIFs. Theoretical and Applied Fracture Mechanics, 2019, 101, 67-79.	2.1	8
273	Mixed mode I/II/III fracture assessment of PMMA using a new test fixture. MATEC Web of Conferences, 2019, 300, 11003.	0.1	4
274	Fatigue behaviour of maraging steel samples produced by SLM under constant and variable amplitude loading. Procedia Structural Integrity, 2019, 22, 10-16.	0.3	13
275	What is going on with fatigue of additively manufactured metals?. Material Design and Processing Communications, 2019, 1, e84.	0.5	12
276	On Suitability of the Averaged Strain Energy Density Criterion in Predicting Mixed Mode I/II Brittle Fracture of Blunt V-Notches with Negative Mode I Contributions. Strength of Materials, 2019, 51, 770-785.	0.2	3
277	The improvement of crack propagation modelling in triangular 2D structures using the extended finite element method. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 397-414.	1.7	15
278	Notch-defect interaction in additively manufactured Inconel 718. International Journal of Fatigue, 2019, 122, 35-45.	2.8	73
279	Mixed mode fracture behavior of notched giant magnetostrictive: Mechanical characterization and comparison among failure criteria. Theoretical and Applied Fracture Mechanics, 2019, 99, 194-204.	2.1	6
280	Electrospun nanofiber interleaving in fiber reinforced composites—Recent trends. Material Design and Processing Communications, 2019, 1, e24.	0.5	28
281	On the fatigue propagation of multiple cracks in friction stir weldments using linear and non-linear models under cyclic tensile loading. Engineering Fracture Mechanics, 2019, 206, 463-484.	2.0	14
282	Controlled Diffusion Solidification Pathway of an AA 7xxx Series Aluminum Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 326-335.	1.1	13
283	Fracture analysis of Vâ€notched rubbers: An experimental and theoretical study. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 732-742.	1.7	1
284	Effect of Solidification Time on Microstructural, Mechanical and Fatigue Properties of Solution Strengthened Ferritic Ductile Iron. Metals, 2019, 9, 24.	1.0	11
285	Fatigueless structures inspired by nature: A case study. Material Design and Processing Communications, 2019, 1, e27.	0.5	5
286	Shattered rim and shelling of high-speed railway wheels in the very-high-cycle fatigue regime under rolling contact loading. Engineering Failure Analysis, 2019, 97, 556-567.	1.8	31
287	Static assessment of plain/notched polylactide (PLA) 3Dâ€printed with different infill levels: Equivalent homogenised material concept and Theory of Critical Distances. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 883-904.	1.7	36
288	Globalâ€local fatigue assessment of an ancient riveted metallic bridge based on submodelling of the critical detail. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 546-560.	1.7	42

#	Article	IF	CITATIONS
289	Study of fluxing in Al refining process by rotary and crucible furnaces. International Journal of Sustainable Engineering, 2019, 12, 38-46.	1.9	5
290	High Temperature Fatigue Behaviour of Secondary AlSi7Cu3Mg Alloys. Structural Integrity, 2019, , 49-55.	0.8	0
291	New methodology of fatigue life evaluation for multiaxially loaded notched components based on two uniaxial strain-controlled tests. International Journal of Fatigue, 2018, 111, 308-320.	2.8	49
292	Interaction of Ca, P trace elements and Sr modification in AlSi5Cu1Mg alloys. Journal of Thermal Analysis and Calorimetry, 2018, 133, 123-133.	2.0	8
293	Novel method for the fatigue strength assessment of heavy sections made by ductile cast iron in presence of solidification defects. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1746-1757.	1.7	21
294	Influence of solidification defects on the fatigue behaviour of heavyâ€section silicon solution–strengthened ferritic ductile cast irons. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 2231-2238.	1.7	10
295	Crack growth rates and microstructure feature of initiation region for veryâ€highâ€eycle fatigue of a highâ€strength steel. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1717-1732.	1.7	20
296	Numerical study on the dynamic fracture behavior of 3D heterogeneous rocks using General Particle Dynamics. Theoretical and Applied Fracture Mechanics, 2018, 96, 90-104.	2.1	15
297	Critical review of turbulence models for CFD for fatigue analysis in large steel structures. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 762-775.	1.7	7
298	Recent advances in core/shell bicomponent fibers and nanofibers: A review. Journal of Applied Polymer Science, 2018, 135, 46265.	1.3	131
299	Study of the effect of heat treatment on fatigue crack growth behaviour of 316L stainless steel produced by selective laser melting. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1102-1119.	1.7	46
300	The peak stress method to calculate residual notch stress intensity factors in welded joints. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 727-738.	1.7	11
301	Analysis of the plastic zone near the crack tips under the uniaxial tension using ordinary stateâ€based peridynamics. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1159-1170.	1.7	21
302	Evaluation and comparison of critical plane criteria for multiaxial fatigue analysis of ductile and brittle materials. International Journal of Fatigue, 2018, 112, 279-288.	2.8	133
303	The behavior of crack initiation and early growth in high-cycle and very-high-cycle fatigue regimes for a titanium alloy. International Journal of Fatigue, 2018, 115, 67-78.	2.8	60
304	Interfacial toughening of carbon/epoxy composite by incorporating styrene acrylonitrile nanofibers. Theoretical and Applied Fracture Mechanics, 2018, 95, 242-247.	2.1	46
305	Static assessment of nanoscale notched silicon beams using the averaged strain energy density method. Theoretical and Applied Fracture Mechanics, 2018, 95, 261-269.	2.1	15
306	Guest editorial: special issueâ€IGF internationalâ€structural integrity. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 717-717.	1.7	0

#	Article	IF	CITATIONS
307	Flexural behavior of metallic fiber-reinforced adhesively bonded single lap joints. Journal of Adhesion, 2018, 94, 453-472.	1.8	23
308	Experimental notched fracture resistance study for the interface of Al–Cu bimetal joints welded by friction stir welding. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 2192-2200.	1.5	15
309	Fatigue life assessment of notched round bars under multiaxial loading based on the total strain energy density approach. Theoretical and Applied Fracture Mechanics, 2018, 97, 340-348.	2.1	43
310	Fracture assessment of V-notched specimens with end holes made of tungsten-copper functionally graded material under mode I loading. Theoretical and Applied Fracture Mechanics, 2018, 97, 357-367.	2.1	10
311	A three-dimensional long-term strength criterion of rocks based on micromechanical method. Theoretical and Applied Fracture Mechanics, 2018, 97, 409-418.	2.1	12
312	Application of an average strain energy density criterion to obtain the mixed mode fracture load of granite rock tested with the cracked asymmetric four-point bend specimens. Theoretical and Applied Fracture Mechanics, 2018, 97, 419-425.	2.1	133
313	Fatigue strength of blunt V-notched specimens produced by selective laser melting of Ti-6Al-4V. Theoretical and Applied Fracture Mechanics, 2018, 97, 376-384.	2.1	95
314	Effects of different indentation methods on fatigue life extension of cracked specimens. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 287-299.	1.7	9
315	Tangential strainâ€based criteria for mixedâ€mode I/II fracture toughness of cement concrete. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 129-137.	1.7	52
316	A synthesis of geometry effect on brittle fracture. Engineering Fracture Mechanics, 2018, 187, 94-102.	2.0	26
317	Influence of energy dissipation at the interphase boundaries on impact fracture behaviour of a plain carbon steel. Theoretical and Applied Fracture Mechanics, 2018, 97, 478-499.	2.1	14
318	Rock Fracture Toughness Under Mode II Loading: A Theoretical Model Based on Local Strain Energy Density. Rock Mechanics and Rock Engineering, 2018, 51, 243-253.	2.6	10
319	A review of digital manufacturing-based hybrid additive manufacturing processes. International Journal of Advanced Manufacturing Technology, 2018, 95, 2281-2300.	1.5	94
320	Averaged strain energy density criterion for rupture assessment of cracked rubbers: A novel method for determination of critical SED. Engineering Fracture Mechanics, 2018, 190, 93-103.	2.0	11
321	Facile strategy toward fabrication of highly responsive self-healing carbon/epoxy composites via incorporation of healing agents encapsulated in poly(methylmethacrylate) nanofiber shell. Journal of Industrial and Engineering Chemistry, 2018, 59, 456-466.	2.9	62
322	On the interaction between corrosion and fatigue which determines the remaining life of bridges. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 314-322.	1.7	7
323	Computational Advantages of the Local Strain Energy Density for Fracture and Fatigue Design. IOP Conference Series: Materials Science and Engineering, 2018, 416, 012060.	0.3	1
324	Effect of V and Zr microalloying, and heat treatment on microstructure and mechanical properties of secondary Al-7Si-3Cu-0.3Mg alloy. International Journal of Materials Research, 2018, 109, 1099-1112.	0.1	13

#	Article	IF	CITATIONS
325	Study of Composite Fiber Reinforcement of Cracked Thin-Walled Pressure Vessels Utilizing Multi-Scaling Technique Based on Extended Finite Element Method. Strength of Materials, 2018, 50, 925-936.	0.2	5
326	Cruciform welded joints: hot-dip galvanization effect on the fatigue life and local energetic analysis Procedia Structural Integrity, 2018, 13, 340-346.	0.3	4
327	Using the Hybrid Metal Extrusion & Bonding (HYB) Process for Dissimilar Joining of AA6082-T6 and S355. Procedia Structural Integrity, 2018, 13, 249-254.	0.3	15
328	Local strain energy based fatigue assessment of cruciform welded joints: experimental data analysis and influence of hot-dip galvanization. MATEC Web of Conferences, 2018, 188, 02013.	0.1	0
329	Rupture Predictions of Notched Ti-6Al-4V Using Local Approaches. Materials, 2018, 11, 663.	1.3	17
330	Effect of T6 Heat Treatment on the Microstructure and Hardness of Secondary AlSi9Cu3(Fe) Alloys Produced by Semi-Solid SEED Process. Metals, 2018, 8, 750.	1.0	26
331	Low-Cycle Fatigue Behavior of 10CrNi3MoV High Strength Steel and Its Undermatched Welds. Materials, 2018, 11, 661.	1.3	32
332	Fatigue investigation of complex weldments by the means of the local strain energy density approach. MATEC Web of Conferences, 2018, 165, 22003.	0.1	4
333	Modelling and Optimizing Structural Behavior of Advanced Materials for Aerospace. International Journal of Aerospace Engineering, 2018, 2018, 1-2.	0.5	2
334	Fatigue Strength Assessment of Steel Rollers: On the Reliability of the Strain Energy Density Approach on Real Components. Applied Sciences (Switzerland), 2018, 8, 1015.	1,3	12
335	Fracture behaviour of notched as-built EBM parts: Characterization and interplay between defects and notch strengthening behaviour. Theoretical and Applied Fracture Mechanics, 2018, 98, 178-185.	2.1	24
336	A Novel Approach for Assessing the Fatigue Behavior of PEEK in a Physiologically Relevant Environment. Materials, 2018, 11, 1923.	1.3	10
337	Rapid Calculation of Residual Notch Stress Intensity Factors (R- NSIFs) by Means of the Peak Stress Method. , 2018, , .		0
338	Finite Element Analysis of Thermoelastic Fiber-Reinforced Anisotropic Hollow Cylinder with Dual-Phase-Lag Model. Strength of Materials, 2018, 50, 396-405.	0.2	7
339	Coalescence of Clean, Coated, and Decoated Aluminum for Various Salts, and Salt–Scrap Ratios. Journal of Sustainable Metallurgy, 2018, 4, 343-358.	1.1	12
340	Effect of neat and reinforced polyacrylonitrile nanofibers incorporation on interlaminar fracture toughness of carbon/epoxy composite. Theoretical and Applied Mechanics Letters, 2018, 8, 126-131.	1.3	30
341	Notched Ti-6Al-4V titanium bars under multiaxial fatigue: Synthesis of crack initiation life based on the averaged strain energy density. Theoretical and Applied Fracture Mechanics, 2018, 96, 509-533.	2.1	34
342	Fatigue Behavior of Porous Ti-6Al-4V Made by Laser-Engineered Net Shaping. Materials, 2018, 11, 284.	1.3	51

#	Article	IF	CITATIONS
343	Low-Cycle Fatigue Behaviour of AISI 18Ni300 Maraging Steel Produced by Selective Laser Melting. Metals, 2018, 8, 32.	1.0	68
344	High-Temperature Behavior of High-Pressure Diecast Alloys Based on the Al-Si-Cu System: The Role Played by Chemical Composition. Metals, 2018, 8, 348.	1.0	12
345	Numerical Evaluation of T-stress under Mixed Mode Loading Through the Use of Coarse Meshes. Physical Mesomechanics, 2018, 21, 124-134.	1.0	6
346	Fracture Loads Prediction on Notched Short Class Fibre Reinforced Polyamide 6 Using the Strain Energy Density. Physical Mesomechanics, 2018, 21, 165-172.	1.0	4
347	Evolution of Crack Tip Constraint in a Mode II Elastic-Plastic Crack Problem. Physical Mesomechanics, 2018, 21, 173-177.	1.0	3
348	Multiaxial Fatigue Crack Orientation and Early Growth Investigation Considering the Nonproportional Loading. Physical Mesomechanics, 2018, 21, 358-370.	1.0	4
349	Effects of Loading Frequency and Loading Type on High-Cycle and Very-High-Cycle Fatigue of a High-Strength Steel. Materials, 2018, 11, 1456.	1.3	27
350	Predicting fretting fatigue in engineering design. International Journal of Fatigue, 2018, 117, 314-326.	2.8	37
351	Guest editorial: "Manufacturing Influence on Fatigue Properties― Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 2211-2211.	1.7	0
352	Rupture analysis of rubber in the presence of a sharp V-shape notch under pure mode-I loading. International Journal of Mechanical Sciences, 2018, 146-147, 405-415.	3.6	14
353	Exploring the hybrid metal extrusion and bonding process for butt welding of Al–Mg–Si alloys. International Journal of Advanced Manufacturing Technology, 2018, 98, 1059-1065.	1.5	30
354	Understanding the fracture behavior of brittle and ductile multi-flawed rocks by uniaxial loading by digital image correlation. Engineering Fracture Mechanics, 2018, 199, 438-460.	2.0	114
355	Fracture assessment of polyacrylonitrile nanofiber-reinforced epoxy adhesive. Theoretical and Applied Fracture Mechanics, 2018, 97, 448-453.	2.1	43
356	Calibration of the potential drop method by means of electric FE analyses and experimental validation for a range of crack shapes. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 2272-2287.	1.7	20
357	Frontiers of fracture and fatigue: Some recent applications of the local strain energy density. Frattura Ed Integrita Strutturale, 2018, 12, 1-32.	0.5	4
358	The effect of loading rate on fracture energy of asphalt mixture at intermediate temperatures and under different loading modes. Frattura Ed Integrita Strutturale, 2018, 12, 113-132.	0.5	31
359	Fatigue life assessment for a welded detail: advantages of a local energetic approach and experimental validation. Frattura Ed Integrita Strutturale, 2018, 12, 121-134.	0.5	4
360	Fracture tests under mixed mode l + III loading: An assessment based on the local energy. International Journal of Damage Mechanics, 2017, 26, 881-894.	2.4	25

#	Article	IF	CITATIONS
361	Fatigue failure transition analysis in loadâ€carrying cruciform welded joints based on strain energy density approach. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1164-1177.	1.7	15
362	Fatigue strength improvement of heavy-section pearlitic ductile iron castings by in-mould inoculation treatment. International Journal of Fatigue, 2017, 102, 221-227.	2.8	21
363	Selfâ€healing and interfacially toughened carbon fibreâ€epoxy composites based on electrospun core–shell nanofibres. Journal of Applied Polymer Science, 2017, 134, 44956.	1.3	72
364	Mixed-mode (I/II) failure assessment of rubber materials using the effective stretch criterion. Theoretical and Applied Fracture Mechanics, 2017, 91, 126-133.	2.1	18
365	Local strain energy density to predict mixed mode I + II fracture in specimens made of functionally graded materials weakened by V-notches with end holes. Theoretical and Applied Fracture Mechanics, 2017, 92, 47-58.	2.1	10
366	Effects of tension on vortex-induced vibration (VIV) responses of a long tensioned cylinder in uniform flows. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 1-9.	1.5	16
367	Editorial: Renewal of FFEMS Editorial Board. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 159-159.	1.7	2
368	The nature and the mechanism of crack initiation and early growth for very-high-cycle fatigue of metallic materials – An overview. Theoretical and Applied Fracture Mechanics, 2017, 92, 331-350.	2.1	116
369	Biomedical applications of additive manufacturing: Present and future. Current Opinion in Biomedical Engineering, 2017, 2, 105-115.	1.8	170
370	Fatigue assessment of steel rollers using an energy based criterion. Procedia Structural Integrity, 2017, 3, 93-101.	0.3	1
371	Mode II brittle fracture assessment using an energy based criterion. Physical Mesomechanics, 2017, 20, 142-148.	1.0	19
372	Mixed mode I/II fracture investigation of Perspex based on the averaged strain energy density criterion. Physical Mesomechanics, 2017, 20, 149-156.	1.0	58
373	Experimental verification of two stress-based criteria for mixed mode I/III brittle fracture assessment of U-notched components. Engineering Fracture Mechanics, 2017, 182, 229-244.	2.0	18
374	Generalized probabilistic model allowing for various fatigue damage variables. International Journal of Fatigue, 2017, 100, 187-194.	2.8	112
375	A simplified model for TIG-dressing numerical simulation. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 035012.	0.8	12
376	Strain energy density based fatigue cracking assessment of load-carrying cruciform welded joints. Theoretical and Applied Fracture Mechanics, 2017, 90, 142-153.	2.1	16
377	Characterization of the solidification path and microstructure of secondary Al-7Si-3Cu-0.3Mg alloy with Zr, V and Ni additions. Materials Characterization, 2017, 128, 100-108.	1.9	29
378	The role of notch tip shape and radius on deformation mechanisms of 12Cr1MoV steel under impact loading. Part 2. Influence of strain localization on fracture and numeric simulations. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1838-1853.	1.7	8

#	Article	IF	CITATIONS
379	A simplified extension of the Crack Analogue model for fretting fatigue with varying normal load. Theoretical and Applied Fracture Mechanics, 2017, 91, 37-43.	2.1	12
380	Analytical modelling of residual stress in additive manufacturing. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 971-978.	1.7	124
381	Crack growth in a naturally corroded bridge steel. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1117-1127.	1.7	27
382	Material issues in additive manufacturing: A review. Journal of Manufacturing Processes, 2017, 25, 185-200.	2.8	632
383	Effects of applied stress ratio on the fatigue behavior of additively manufactured porous biomaterials under compressive loading. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 70, 7-16.	1.5	54
384	Crack initiation life in notched steel bars under torsional fatigue: Synthesis based on the averaged strain energy density approach. International Journal of Fatigue, 2017, 100, 563-574.	2.8	38
385	Experimental and numerical investigations of fracture behavior of magnetostrictive materials. Procedia Structural Integrity, 2017, 3, 153-161.	0.3	3
386	On the use of the Peak Stress Method for the calculation of Residual Notch Stress Intensity Factors: a preliminary investigation. Procedia Structural Integrity, 2017, 3, 191-200.	0.3	7
387	Effects of transitional functions on multiscale fatigue crack growth. Theoretical and Applied Fracture Mechanics, 2017, 91, 134-138.	2.1	3
388	Some recent criteria for brittle fracture prediction under in-plane shear loading. Procedia Structural Integrity, 2017, 3, 110-118.	0.3	3
389	Fatigue behavior of innovative alloys at elevated temperature. Procedia Structural Integrity, 2017, 3, 162-167.	0.3	2
390	On the applicability of ASED criterion for predicting mixed mode I+II fracture toughness results of a rock material. Theoretical and Applied Fracture Mechanics, 2017, 92, 198-204.	2.1	105
391	A FEM based methodology to simulate multiple crack propagation in friction stir welds. Engineering Fracture Mechanics, 2017, 184, 154-167.	2.0	15
392	A survey on multiaxial fatigue damage parameters under nonâ€proportional loadings. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1323-1342.	1.7	40
393	Fracture investigation of V-notch made of tungsten-copper functionally graded materials. Physical Mesomechanics, 2017, 20, 457-464.	1.0	5
394	Evaluating Mechanical Properties of Macro-Synthetic Fiber-Reinforced Concrete with Various Types and Contents. Strength of Materials, 2017, 49, 618-626.	0.2	23
395	Towards the development of self-healing carbon/epoxy composites with improved potential provided by efficient encapsulation of healing agents in core-shell nanofibers. Polymer Testing, 2017, 62, 79-87.	2.3	73
396	Large-Scale Yielding Failure Prediction of Notched Ductile Plates by Means of the Linear Elastic Notch Fracture Mechanics. Strength of Materials, 2017, 49, 224-233.	0.2	12

#	Article	IF	CITATIONS
397	Some methods for rapid evaluation of the mixed mode NSIFs. Procedia Structural Integrity, 2017, 3, 126-134.	0.3	6
398	Asymptotic residual stress distribution induced by multipass welding processes. International Journal of Fatigue, 2017, 101, 421-429.	2.8	31
399	Fatigue behaviour of welded structural steel subjected to hot-dip galvanization process. International Journal of Fatigue, 2017, 101, 439-447.	2.8	13
400	The role of notch tip shape and radius on deformation mechanisms of 12Cr1MoV steel under impact loading. Part 1. Energy parameters of fracture. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 586-596.	1.7	14
401	A review of the notch rounding approach under in plane mixed mode loading. International Journal of Fatigue, 2017, 101, 127-136.	2.8	3
402	Influence of Grain Refiner Addition on the Precipitation of Fe-Rich Phases in Secondary AlSi7Cu3Mg Alloys. International Journal of Metalcasting, 2017, 11, 294-304.	1.5	18
403	Application of the strain energy density approach in comparing different design solutions for improving the fatigue strength of load carrying shear welded joints. International Journal of Fatigue, 2017, 101, 371-384.	2.8	15
404	Improving the fatigue performance of porous metallic biomaterials produced by Selective Laser Melting. Acta Biomaterialia, 2017, 47, 193-202.	4.1	233
405	Evaluating the Tensile Properties of Aluminum Foundry Alloys through Reference Castings—A Review. Materials, 2017, 10, 1011.	1.3	15
406	Fracture Assessment of PEEK under Static Loading by Means of the Local Strain Energy Density. Materials, 2017, 10, 1423.	1.3	13
407	Effect of Structural Heterogeneity of 17Mn1Si Steel on the Temperature Dependence of Impact Deformation and Fracture. Metals, 2017, 7, 280.	1.0	4
408	Fatigue Assessment of Ti–6Al–4V Circular Notched Specimens Produced by Selective Laser Melting. Metals, 2017, 7, 291.	1.0	59
409	Effect of Temperature-Force Factors and Concentrator Shape on Impact Fracture Mechanisms of 17Mn1Si Steel. Advances in Materials Science and Engineering, 2017, 2017, 1-12.	1.0	6
410	Mg and Its Alloys for Biomedical Applications: Exploring Corrosion and Its Interplay with Mechanical Failure. Metals, 2017, 7, 252.	1.0	93
411	Review of local strain energy density theory for the fracture assessment of V-notches under mixed mode loading. Engineering Solid Mechanics, 2017, , 113-132.	0.6	40
412	Notched plates in mixed mode loading (I+II): a review based on the local strain energy density and the cohesive zone model. Engineering Solid Mechanics, 2017, , 1-8.	0.6	41
413	A review of the fatigue strength of structural materials under multiaxial loading in terms of the local energy density. Engineering Solid Mechanics, 2017, , 245-270.	0.6	9
414	Mechanical and fatigue properties of pearlitic ductile iron castings characterized by long solidification times. Engineering Failure Analysis, 2017, 79, 902-912.	1.8	20

#	Article	IF	CITATIONS
415	Static Strength of V-Notches With End Holes Under Combined Tension-Shear Loading: Experimental Measurement by the Disk Test and Theoretical Prediction by the Local Energy. Journal of Testing and Evaluation, 2017, 45, 20140496.	0.4	6
416	Crack initiation life in notched Ti-6Al-4V titanium bars under uniaxial and multiaxial fatigue: synthesis based on the averaged strain energy density approach. Frattura Ed Integrita Strutturale, 2017, 11, 8-15.	0.5	6
417	Multiaxial fatigue strength of titanium alloys. Frattura Ed Integrita Strutturale, 2017, 11, 79-89.	0.5	4
418	Notched graphite under multiaxial loading. Frattura Ed Integrita Strutturale, 2017, 11, 424-431.	0.5	4
419	40CrMoV13.9 notched specimens under multiaxial fatigue: an overview of recent results. Frattura Ed Integrita Strutturale, 2017, 11, 440-446.	0.5	7
420	Creep behavior of V-notched components. Frattura Ed Integrita Strutturale, 2017, 11, 456-463.	0.5	4
421	Mode II brittle fracture: recent developments. Frattura Ed Integrita Strutturale, 2017, 11, 181-188.	0.5	5
422	The fatigue behavior of V-notches in presence of residual stresses: recent developments and future outcomes. Frattura Ed Integrita Strutturale, 2017, 11, 189-195.	0.5	1
423	Notch stress intensity factors under mixed mode loadings: an overview of recent advanced methods for rapid calculation. Frattura Ed Integrita Strutturale, 2017, 11, 196-204.	0.5	6
424	Local strain energy density for the fatigue assessment of hot dip galvanized welded joints: some recent outcomes. Frattura Ed Integrita Strutturale, 2017, 11, 205-213.	0.5	3
425	Local strain energy density for the fracture assessment of polyurethane specimens weakened by notches of different shape. Frattura Ed Integrita Strutturale, 2017, 11, 214-222.	0.5	6
426	Fracture assessment of magnetostrictive materials. Frattura Ed Integrita Strutturale, 2017, 11, 223-230.	0.5	3
427	Acoustic Emission Assessment of Impending Fracture in a Cyclically Loading Structural Steel. Metals, 2016, 6, 266.	1.0	7
428	Brittle or Quasi-Brittle Fracture of Engineering Materials 2016. Advances in Materials Science and Engineering, 2016, 2016, 1-2.	1.0	2
429	Generalized approach to estimation of strains and stresses at blunt Vâ€notches under nonâ€localized creep. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 292-306.	1.7	48
430	Coupled fracture modes of discs and plates under antiâ€plane loading and a disc under inâ€plane shear loading. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 924-938.	1.7	67
431	The Effect of Transition Elements on High-Temperature Mechanical Properties of Al-Si Foundry Alloys-A Review. Advanced Engineering Materials, 2016, 18, 1096-1105.	1.6	39
432	A brief review of recent three-dimensional studies of brittle fracture. Physical Mesomechanics, 2016, 19, 6-20.	1.0	31

#	Article	IF	CITATIONS
433	Advanced Materials for Applications at High Temperature: Fatigue Assessment by Means of Local Strain Energy Density. Advanced Engineering Materials, 2016, 18, 2010-2017.	1.6	31
434	Fracture Behavior of Cracked Giant Magnetostrictive Materials in Threeâ€Point Bending under Magnetic Fields: Strain Energy Density Criterion. Advanced Engineering Materials, 2016, 18, 2063-2069.	1.6	13
435	A New Criterion for Rupture Assessment of Rubberâ€Like Materials under Modeâ€l Crack Loading: The Effective Stretch Criterion. Advanced Engineering Materials, 2016, 18, 1364-1370.	1.6	24
436	A successful combination of the equivalent material concept and the averaged strain energy density criterion for predicting crack initiation from blunt V-notches in ductile aluminum plates under mixed mode loading. Physical Mesomechanics, 2016, 19, 382-391.	1.0	17
437	Effect of the Loading Rate on the Brittle Fracture of Terfenol-D Specimens in Magnetic Field: Strain Energy Density Approach. Strength of Materials, 2016, 48, 791-800.	0.2	2
438	Inclined Hole Under Different Loading Conditions: A Review of Recent Results. Strength of Materials, 2016, 48, 668-676.	0.2	1
439	Geometry effects on fracture trajectory of PMMA samples under pure mode-I loading. Engineering Fracture Mechanics, 2016, 163, 449-461.	2.0	80
440	Elastic-plastic fracture analysis of notched Al 7075-T6 plates by means of the local energy combined with the equivalent material concept. Physical Mesomechanics, 2016, 19, 204-214.	1.0	41
441	Fracture assessment of sharp V-notched components under Mode II loading: a comparison among some recent criteria. Theoretical and Applied Fracture Mechanics, 2016, 85, 217-226.	2.1	46
442	Averaged strain energy density estimated rapidly from the singular peak stresses by FEM: Cracked bars under mixed-mode (I+III) loading. Engineering Fracture Mechanics, 2016, 167, 20-33.	2.0	17
443	Fatigue and fracture assessment of notched components by means of the Strain Energy Density. Engineering Fracture Mechanics, 2016, 167, 176-187.	2.0	22
444	Mode II loading in sharp V-notched components: a comparison among some recent criteria for brittle fracture assessment. Procedia Structural Integrity, 2016, 2, 1845-1852.	0.3	1
445	Synthesis of crack initiation life in steel notched specimens under torsional fatigue based on the averaged strain energy density. Procedia Structural Integrity, 2016, 2, 1853-1860.	0.3	1
446	NSIFs estimation based on the averaged strain energy density under in-plane mixed mode loading. Procedia Structural Integrity, 2016, 2, 1829-1836.	0.3	5
447	Review of recent advances in local approaches applied to pre-stressed components under fatigue loading. Procedia Structural Integrity, 2016, 2, 3467-3474.	0.3	9
448	Modelling and fatigue assessment of steel rollers with failure occurring at the weld root based on the local strain energy. Procedia Structural Integrity, 2016, 2, 3475-3482.	0.3	0
449	Strain Energy Density Based Assessment of Cracked Terfenol-D Specimens Under Magnetic Field and Different Loading Rates. Procedia Structural Integrity, 2016, 2, 1837-1844.	0.3	5
450	Influence of Melt Superheat, Sr Modifier, and Al-5Ti-1B Grain Refiner on Microstructural Evolution of Secondary Al-Si-Cu Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5510-5521.	1.1	16

#	Article	IF	CITATIONS
451	Fracture assessment of polymethyl methacrylate using sharp notched disc bend specimens under mixed mode I + III loading. Physical Mesomechanics, 2016, 19, 355-364.	1.0	68
452	Mechanical and Fatigue Properties of Heavy Section Solution Strengthened Ferritic Ductile Iron Castings. Advanced Engineering Materials, 2016, 18, 2070-2075.	1.6	28
453	Encapsulation of epoxy and amine curing agent in PAN nanofibers by coaxial electrospinning for self-healing purposes. RSC Advances, 2016, 6, 70056-70063.	1.7	88
454	Effect of in-mould inoculant composition on microstructure and fatigue behaviour of heavy section ductile iron castings. Procedia Structural Integrity, 2016, 2, 3150-3157.	0.3	19
455	Local strain energy density to predict size-dependent brittle fracture of cracked specimens under mixed mode loading. Theoretical and Applied Fracture Mechanics, 2016, 86, 217-224.	2.1	35
456	Thermal load-induced notch stress intensity factors derived from averaged strain energy density. Procedia Structural Integrity, 2016, 2, 2367-2374.	0.3	2
457	A promising method for the analysis of notch effect on fatigue strength: Strain energy density approach. Science China Technological Sciences, 2016, 59, 1617-1618.	2.0	0
458	Quantification of the Influence of Residual Stresses on Fatigue Strength of Al-Alloy Welded Joints by Means of the Local Strain Energy Density Approach. Strength of Materials, 2016, 48, 426-436.	0.2	38
459	Evaluation of the strain energy density control volume for a nanoscale singular stress field. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 1557-1564.	1.7	26
460	Tensile Fracture Analysis of Key-Hole Notches by Means of the Strain Energy Density. Strength of Materials, 2016, 48, 259-269.	0.2	8
461	Grain refinement of gravity die cast secondary AlSi7Cu3Mg alloys for automotive cylinder heads. Transactions of Nonferrous Metals Society of China, 2016, 26, 1211-1221.	1.7	36
462	On the anti-plane state of stress near pointed or sharply radiused notches in strain limiting elastic materials: closed form solution and implications for fracture assessements. International Journal of Fracture, 2016, 199, 169-184.	1.1	13
463	Analysis of creep stresses and strains around sharp and blunt V-notches. Theoretical and Applied Fracture Mechanics, 2016, 85, 435-446.	2.1	35
464	Microstructural and Mechanical Properties of Alâ€Based Composites Reinforced with In‣itu and Ex‣itu Al <sub>2</sub> O <sub>3</sub> Nanoparticles. Advanced Engineering Materials, 2016, 18, 550-558.	1.6	19
465	Rapid finite element evaluation of the averaged strain energy density of mixedâ€mode (l + II) crack tip fields including the Tâ€stress contribution. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 982-998.	1.7	41
466	Cyclic plasticity in three-dimensional notched components under in-phase multiaxial loading at R= â^'1. Theoretical and Applied Fracture Mechanics, 2016, 81, 76-88.	2.1	32
467	Fatigue assessment of notched specimens by means of a critical plane-based criterion and energy concepts. Theoretical and Applied Fracture Mechanics, 2016, 84, 57-63.	2.1	53
468	Asymptotic residual stresses in butt-welded joints under fatigue loading. Theoretical and Applied Fracture Mechanics, 2016, 83, 114-124.	2.1	52

#	Article	IF	CITATIONS
469	The formation mechanism of characteristic region at crack initiation for very-high-cycle fatigue of high-strength steels. International Journal of Fatigue, 2016, 89, 108-118.	2.8	194
470	An experimental method for evaluating mode II stress intensity factor from near crack tip field. International Journal of Fracture, 2016, 197, 119-126.	1.1	7
471	On the evaluation of stress intensity factor from displacement field affected by 3D corner singularity. International Journal of Solids and Structures, 2016, 78-79, 131-137.	1.3	19
472	Precipitation of primary Fe-rich compounds in secondary AlSi9Cu3(Fe) alloys. Journal of Thermal Analysis and Calorimetry, 2016, 123, 249-262.	2.0	39
473	Fatigue strength of steel rollers with failure occurring at the weld root based on the local strain energy values: modelling and fatigue assessment. International Journal of Fatigue, 2016, 82, 643-657.	2.8	43
474	Mode II Brittle Fracture Assessment of Key-Hole Notches by Means of the Local Energy. Journal of Testing and Evaluation, 2016, 44, 1261-1270.	0.4	23
475	Crack initiation and propagation paths in small diameter FSW 6082-T6 aluminium tubes under fatigue loading. Frattura Ed Integrita Strutturale, 2016, 10, 119-129.	0.5	2
476	Averaged strain energy density-based synthesis of crack initiation life in notched steel bars under torsional fatigue. Frattura Ed Integrita Strutturale, 2016, 10, 215-223.	0.5	7
477	Feasibility study on buoyancy–weight ratios of a submerged floating tunnel prototype subjected to hydrodynamic loads. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 750-761.	1.5	18
478	Notch Effect on the Fatigue Behavior of a Hot-Dip Galvanized Structural Steel. Strength of Materials, 2015, 47, 719-727.	0.2	9
479	Fatigue strength assessment of partial and fullâ€penetration steel and aluminium buttâ€welded joints according to the peak stress method. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 1419-1431.	1.7	50
480	Three-dimensional cracked discs under anti-plane loading and effects of the boundary conditions. International Journal of Structural Integrity, 2015, 6, 541-564.	1.8	2
481	Extension of linear elastic strain energy density approach to high temperature fatigue and a synthesis of Cu-Be alloy experimental tests. Engineering Solid Mechanics, 2015, 3, 111-116.	0.6	18
482	Tensile fracture analysis of blunt notched PMMA specimens by means of the Strain Energy Density. Engineering Solid Mechanics, 2015, 3, 35-42.	0.6	12
483	Coupled fracture mode of a cracked plate under anti-plane loading. Engineering Fracture Mechanics, 2015, 134, 391-403.	2.0	90
484	Some recent results on the fatigue strength of notched specimens made of 40CrMoV13.9 steel at room and high temperature. Physical Mesomechanics, 2015, 18, 105-126.	1.0	12
485	Influence of Injection Parameters on the Porosity and Tensile Properties of High-Pressure Die Cast Al-Si Alloys: A Review. International Journal of Metalcasting, 2015, 9, 43-53.	1.5	40
486	New Classification of Defects and Imperfections for Aluminum Alloy Castings. International Journal of Metalcasting, 2015, 9, 55-66.	1.5	52

#	Article	IF	CITATIONS
487	Crack Initiation at V-Notch Tip under In-Plane Mixed Mode Loading: A Review of the Fictitious Notch Rounding Concept. Physical Mesomechanics, 2015, 18, 273-282.	1.0	3
488	Brittle Fracture of Rounded V-Notches in Isostatic Graphite under Static Multiaxial Loading. Physical Mesomechanics, 2015, 18, 283-297.	1.0	38
489	Mode I Fracture Analysis of Polymethylmetacrylate Using Modified Energy-Based Models. Physical Mesomechanics, 2015, 18, 326-336.	1.0	37
490	Optimization of a Permanent Step Mold Design for Mg Alloy Castings. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 473-484.	1.0	4
491	Local Strain Energy Density Applied to Bainitic Functionally Graded Steels Plates Under Mixed-Mode (IÂ+ÂII) Loading. Acta Metallurgica Sinica (English Letters), 2015, 28, 164-172.	1.5	6
492	Threeâ€dimensional stress fields due to notches in plates under linear elastic and elastic–plastic conditions. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 140-153.	1.7	43
493	Local strain energy density to predict mode II brittle fracture in Brazilian disk specimens weakened by V-notches with end holes. Materials & Design, 2015, 69, 22-29.	5.1	73
494	A criterion based on the local strain energy density for the fracture assessment of cracked and V-notched components made of incompressible hyperelastic materials. Theoretical and Applied Fracture Mechanics, 2015, 76, 17-26.	2.1	34
495	High-Pressure Die-Casting: Contradictions and Challenges. Jom, 2015, 67, 901-908.	0.9	87
496	Brittle Failure of Graphite Weakened by V-Notches: A Review of Some Recent Results Under Different Loading Modes. Strength of Materials, 2015, 47, 488-506.	0.2	36
497	Three-dimensional effects at the tip of rounded notches subjected to mode-I loading under cyclic plasticity. Journal of Strain Analysis for Engineering Design, 2015, 50, 299-313.	1.0	27
498	Evolution of Fe-rich compounds in a secondary Al–Si–Cu alloy: influence of cooling rate. International Journal of Materials Research, 2015, 106, 719-724.	0.1	11
499	Experimental and theoretical investigation of brittle fracture in key-hole notches under mixed mode I/II loading. Acta Mechanica, 2015, 226, 2313-2322.	1.1	32
500	Influence of Sludge Particles on the Tensile Properties of Die-Cast Secondary Aluminum Alloys. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1022-1034.	1.0	29
501	Fatigue strength of severely notched specimens made of Ti–6Al–4V under multiaxial loading. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 503-517.	1.7	161
502	Tensile fracture analysis of V-notches with end holes by means of the local energy. Physical Mesomechanics, 2015, 18, 194-202.	1.0	30
503	A generalized strain energy density criterion for mixed mode fracture analysis in brittle and quasi-brittle materials. Theoretical and Applied Fracture Mechanics, 2015, 79, 70-76.	2.1	109
504	V-notches subjected to combined tension and torsion loadings: the application of the fictitious notch rounding concept. Engineering Fracture Mechanics, 2015, 148, 82-96.	2.0	6

#	Article	IF	CITATIONS
505	A two-parameter model to predict fatigue life of high-strength steels in a very high cycle fatigue regime. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 383-391.	1.5	27
506	Effect of vertex singularities on stress intensities near plate free surfaces. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 860-869.	1.7	65
507	Fatigue data interpretation of 7075-T6 Al sheets by energy density factor in a dual scale model. Theoretical and Applied Fracture Mechanics, 2015, 79, 98-104.	2.1	14
508	Averaged strain energy density evaluated rapidly from the singular peak stresses by FEM: cracked components under mixed-mode (I+II) loading. Theoretical and Applied Fracture Mechanics, 2015, 79, 113-124.	2.1	39
509	A new expression to evaluate the critical fracture load for bainitic functionally graded steels under mixed mode (I + II) loading. Engineering Failure Analysis, 2015, 48, 121-136.	1.8	19
510	The effects of different boundary conditions on three-dimensional cracked discs under anti-plane loading. European Journal of Mechanics, A/Solids, 2015, 50, 76-86.	2.1	31
511	A model to predict S–N curves for surface and subsurface crack initiations in different environmental media. International Journal of Fatigue, 2015, 71, 35-44.	2.8	30
512	Effects of stress ratio on high-cycle and very-high-cycle fatigue behavior of a Ti–6Al–4V alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 622, 228-235.	2.6	117
513	Coupled fracture mode of a cracked disc under anti-plane loading. MATEC Web of Conferences, 2014, 12, 04014.	0.1	1
514	Strain energy density to assess mode II fracture in U-notched disk-type graphite plates. International Journal of Damage Mechanics, 2014, 23, 917-930.	2.4	43
515	A Brief Review of Some Local Approaches for the Failure Assessment of Brittle and Quasi-Brittle Materials. Advances in Materials Science and Engineering, 2014, 2014, 1-10.	1.0	6
516	Fictitious notch rounding concept applied to V-notches with root hole subjected to in-plane mixed mode loading. Engineering Fracture Mechanics, 2014, 128, 171-188.	2.0	21
517	High-temperature fatigue strength of a copper–cobalt–beryllium alloy. Journal of Strain Analysis for Engineering Design, 2014, 49, 244-256.	1.0	47
518	Editorial: FFEMS says "thank you―to Eann Patterson and Feargal Brennan. Fatigue and Fracture of Engineering Materials and Structures, 2014, 37, 231-231.	1.7	1
519	A comparison among some recent energy- and stress-based criteria for the fracture assessment of sharp V-notched components under Mode I loading. Theoretical and Applied Fracture Mechanics, 2014, 71, 21-30.	2.1	102
520	An experimental investigation of dual-resonant and non-resonant responses for vortex-induced vibration of a long slender cylinder. Science China: Physics, Mechanics and Astronomy, 2014, 57, 321-329.	2.0	6
521	Fatigue strength of Al7075 notched plates based on the local SED averaged over a control volume. Science China: Physics, Mechanics and Astronomy, 2014, 57, 30-38.	2.0	23
522	Effects of loading condition on very-high-cycle fatigue behaviour and dominant variable analysis. Science China: Physics, Mechanics and Astronomy, 2014, 57, 74-82.	2.0	20

#	Article	IF	CITATIONS
523	Effect of Grain Refinement and Cooling Rate on the Microstructure and Mechanical Properties of Secondary Al-Si-Cu Alloys. Journal of Materials Engineering and Performance, 2014, 23, 611-621.	1.2	35
524	Recent developments in brittle and quasi-brittle failure assessment of engineering materials by means of local approaches. Materials Science and Engineering Reports, 2014, 75, 1-48.	14.8	430
525	Effect of notch depth and radius on the critical fracture load of bainitic functionally graded steels under mixed mode I + II loading. Physical Mesomechanics, 2014, 17, 178-189.	1.0	21
526	The Effects of Microstructure Heterogeneities and Casting Defects on the Mechanical Properties of High-Pressure Die-Cast AlSi9Cu3(Fe) Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5486-5498.	1.1	40
527	Effects of Geometrical Parameters on the Stress Field of Three-Dimensional Plates Weakened by Periodic Notches. Strength of Materials, 2014, 46, 391-403.	0.2	1
528	Coupled fracture mode of a cracked disc under anti-plane loading. Engineering Fracture Mechanics, 2014, 128, 22-36.	2.0	88
529	High Temperature Fatigue Tests of Cu-be and 40CrMoV13.9 Alloys. , 2014, 3, 27-32.		18
530	On three-dimensional stress analysis of periodic notched plates under tension. Science China: Physics, Mechanics and Astronomy, 2014, 57, 1751-1757.	2.0	2
531	Effects of grain refinement on the microstructure, mechanical properties and reliability of AlSi7Cu3Mg gravity die cast cylinder heads. Metals and Materials International, 2014, 20, 677-686.	1.8	10
532	High temperature fatigue tests of un-notched and notched specimens made of 40CrMoV13.9 steel. Materials & Design, 2014, 63, 609-619.	5.1	72
533	Multiaxial fatigue strength of severely notched cast iron specimens. International Journal of Fatigue, 2014, 67, 15-27.	2.8	41
534	Propensities of crack interior initiation and early growth for very-high-cycle fatigue of high strength steels. International Journal of Fatigue, 2014, 58, 144-151.	2.8	186
535	Averaged strain energy density and J-integral for U- and blunt V-shaped notches under torsion. International Journal of Fracture, 2014, 188, 173-186.	1.1	21
536	Mixed mode fracture assessment of U-notched graphite Brazilian disk specimens by means of the local energy. Structural Engineering and Mechanics, 2014, 50, 723-740.	1.0	26
537	Notch Fracture Toughness Evaluation for a Brittle Graphite Material. Materials Performance and Characterization, 2014, 3, 20130041.	0.2	7
538	A synthesis of Polymethylmethacrylate data from U-notched specimens and V-notches with end holes by means of local energy. Materials & Design, 2013, 49, 826-833.	5.1	37
539	Dynamic shell buckling behavior of multi-walled carbon nanotubes embedded in an elastic medium. Science China: Physics, Mechanics and Astronomy, 2013, 56, 483-490.	2.0	3
540	A new analytical expression for the relationship between the Charpy impact energy and notch tip position for functionally graded steels. Acta Metallurgica Sinica (English Letters), 2013, 26, 232-240.	1.5	7

#	Article	IF	CITATIONS
541	On Scale Effect in Plates Weakened by Rounded V-Notches and Subjected to In-Plane Shear Loading. International Journal of Fracture, 2013, 180, 111-118.	1.1	24
542	Threeâ€dimensional effects in finite thickness plates weakened by rounded notches and holes under inâ€plane shear. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 1139-1152.	1.7	20
543	Brittle fracture of sharp and blunt V-notches in isostatic graphite under pure compression loading. Carbon, 2013, 63, 101-116.	5.4	80
544	Three-dimensional stress states at crack tip induced by shear and anti-plane loading. Engineering Fracture Mechanics, 2013, 108, 65-74.	2.0	136
545	Ceneralised Neuber concept of fictitious notch rounding. International Journal of Fatigue, 2013, 51, 105-115.	2.8	74
546	Fracture Assessment of Blunt V-Notched Graphite Specimens by Means of the Strain Energy Density. Strength of Materials, 2013, 45, 635-647.	0.2	28
547	A review on coupled modes in V-notched plates of finite thickness: A generalized approach to the problem. Physical Mesomechanics, 2013, 16, 378-390.	1.0	16
548	On a coupled mode at sharp notches subjected to anti-plane loading. European Journal of Mechanics, A/Solids, 2013, 38, 70-78.	2.1	27
549	The Theory of Critical Distances to estimate finite lifetime of notched components subjected to constant and variable amplitude torsional loading. Engineering Fracture Mechanics, 2013, 98, 64-79.	2.0	34
550	Tissue engineered plant extracts as nanofibrous wound dressing. Biomaterials, 2013, 34, 724-734.	5.7	216
551	On the second non-singular stress term of the V-notch solution: a new engineering solution. International Journal of Fracture, 2013, 181, 83-98.	1.1	19
552	Effects of inclusion size and stress ratio on fatigue strength for high-strength steels with fish-eye mode failure. International Journal of Fatigue, 2013, 48, 19-27.	2.8	70
553	A synthesis of data from steel spot welded joints of reduced thickness by means of local SED. Theoretical and Applied Fracture Mechanics, 2013, 63-64, 32-39.	2.1	29
554	Fracture behaviour of notched round bars made of PMMA subjected to torsion at â^'60°C. Engineering Fracture Mechanics, 2013, 102, 271-287.	2.0	92
555	Multiparametric full-field representations of the in-plane stress fields ahead of cracked components under mixed mode loading. International Journal of Fatigue, 2013, 46, 16-26.	2.8	64
556	Analytical expressions for the notch stress intensity factors of periodic V-notches under tension by using the strain energy density approach. Journal of Strain Analysis for Engineering Design, 2013, 48, 291-305.	1.0	15
557	Brittle failure of inclined keyâ€hole notches in isostatic graphite under inâ€plane mixed mode loading. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 942-955.	1.7	107
558	Brittle fracture of U-notched graphite plates under mixed mode loading. Materials & Design, 2012, 41, 421-432.	5.1	115

#	Article	IF	CITATIONS
559	Fatigue properties of ductile cast iron containing chunky graphite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 554, 122-128.	2.6	66
560	Fracture behaviour of notched round bars made of PMMA subjected to torsion at room temperature. Engineering Fracture Mechanics, 2012, 90, 143-160.	2.0	79
561	Local strain energy density applied to martensitic steel plates weakened by U-notches under mixed mode loading. Theoretical and Applied Fracture Mechanics, 2012, 59, 21-28.	2.1	22
562	Three dimensional finite element mixed fracture mode under anti-plane loading of a crack. Theoretical and Applied Fracture Mechanics, 2012, 62, 26-33.	2.1	78
563	The effect of the boundary conditions on in-plane and out-of-plane stress field in three dimensional plates weakened by free-clamped V-notches. Physical Mesomechanics, 2012, 15, 26-36.	1.0	20
564	Notch stress intensity factors of flat plates with periodic sharp notches by using the strain energy density. Theoretical and Applied Fracture Mechanics, 2012, 60, 38-50.	2.1	29
565	Simple New Expressions for the Notch Stress Intensity Factors in an Array of Narrow V–Notches Under Tension. International Journal of Fracture, 2012, 176, 237-244.	1.1	10
566	Fatigue Strength and Crack Initiation Mechanism of Very-High-Cycle Fatigue for Low Alloy Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2753-2762.	1.1	43
567	Fatigue strength analysis of notched aluminium specimens using the highly stressed volume method. Fatigue and Fracture of Engineering Materials and Structures, 2012, 35, 154-159.	1.7	17
568	Induced outâ€ofâ€plane mode at the tip of blunt lateral notches and holes under inâ€plane shear loading. Fatigue and Fracture of Engineering Materials and Structures, 2012, 35, 538-555.	1.7	96
569	Brittle fracture of sharp and blunt V-notches in isostatic graphite under torsion loading. Carbon, 2012, 50, 1942-1952.	5.4	85
570	A critical distance/plane method to estimate finite life of notched components under variable amplitude uniaxial/multiaxial fatigue loading. International Journal of Fatigue, 2012, 38, 7-24.	2.8	125
571	Fictitious notch rounding concept applied to V-notches with end holes under mode 3 loading. International Journal of Fatigue, 2012, 38, 188-193.	2.8	30
572	Fictitious notch rounding concept applied to V-notches with root holes subjected to in-plane shear loading. Engineering Fracture Mechanics, 2012, 79, 281-294.	2.0	30
573	Strain energy density approach for failure evaluation of occlusal loaded ceramic tooth crowns. Theoretical and Applied Fracture Mechanics, 2012, 58, 44-50.	2.1	11
574	Out-of-plane singular stress fields in V-notched plates and welded lap joints induced by in-plane shear load conditions. Fatigue and Fracture of Engineering Materials and Structures, 2011, 34, 291-304.	1.7	66
575	Multiaxial fatigue of V-notched steel specimens: a non-conventional application of the local energy method. Fatigue and Fracture of Engineering Materials and Structures, 2011, 34, 921-943.	1.7	135
576	Stress concentration factors of periodic notches determined from the strain energy density. Theoretical and Applied Fracture Mechanics, 2011, 56, 127-139.	2.1	20

#	Article	IF	CITATIONS
577	On the Presence of the Out–of–Plane Singular Mode Induced by Plane Loading With KII = KI = 0. International Journal of Fracture, 2011, 167, 119-126.	1.1	38
578	Generalised stress intensity factors for rounded notches in plates under in-plane shear loading. International Journal of Fracture, 2011, 170, 123-144.	1.1	45
579	Fictitious Notch Rounding Concept Applied to V-Notches with End Holes Under Mode I Loading. International Journal of Fracture, 2011, 171, 91-98.	1.1	27
580	Experimental and theoretical investigation of environmental media on very-high-cycle fatigue behavior for a structural steel. Acta Materialia, 2011, 59, 1321-1327.	3.8	63
581	Practical expressions for the notch stress concentration factors of round bars under torsion. International Journal of Fatigue, 2011, 33, 382-395.	2.8	40
582	Fatigue strength of structural components under multi-axial loading in terms of local energy density averaged on a control volume. International Journal of Fatigue, 2011, 33, 1055-1065.	2.8	89
583	The Theory of Critical Distances to estimate lifetime of notched components subjected to variable amplitude uniaxial fatigue loading. International Journal of Fatigue, 2011, 33, 900-911.	2.8	78
584	Prediction of threshold value for FGA formation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6872-6877.	2.6	71
585	Fracture assessment of U-notches under three point bending by means of local energy density. Materials & Design, 2011, 32, 822-830.	5.1	61
586	On higher order terms and out-of-plane singular mode. Mechanics of Materials, 2011, 43, 332-341.	1.7	76
587	Fracture Assessment of U-notches under Mode I Loading by means of Critical Value of the J-integral. Procedia Engineering, 2011, 10, 807-812.	1.2	2
588	A comparison between rapid expressions for evaluation of the critical J-integral in plates with U-notches under mode I loading. Journal of Strain Analysis for Engineering Design, 2011, 46, 852-865.	1.0	18
589	Influence of processing temperature on microstructure and microhardness of copper subjected to high-pressure torsion. Science China Technological Sciences, 2010, 53, 1534-1539.	2.0	12
590	On Higher Order Terms in the Crack Tip Stress Field. International Journal of Fracture, 2010, 161, 221-226.	1.1	67
591	Transverse singular effects in V-shaped notches stressed in mode II. International Journal of Fracture, 2010, 164, 1-14.	1.1	60
592	Some new practical equations for rapid calculation of J-integral in plates weakened by U-notches under bending. Materials & Design, 2010, 31, 2964-2971.	5.1	37
593	Rapid calculations of notch stress intensity factors based on averaged strain energy density from coarse meshes: Theoretical bases and applications. International Journal of Fatigue, 2010, 32, 1559-1567.	2.8	262
594	Effect of the thickness on elastic deformation and quasi-brittle fracture of plate components. Engineering Fracture Mechanics, 2010, 77, 1665-1681.	2.0	81

#	Article	IF	CITATIONS
595	The Theory of Critical Distances as an alternative experimental strategy for the determination of Klc and ΔKth. Engineering Fracture Mechanics, 2010, 77, 1492-1501.	2.0	77
596	Fictitious Notch Rounding approach of pointed V-notch under in-plane shear. Theoretical and Applied Fracture Mechanics, 2010, 53, 127-135.	2.1	31
597	An Elasto-Plastic Reformulation of the Theory of Critical Distances to Estimate Lifetime of Notched Components Failing in the Low/Medium-Cycle Fatigue Regime. Journal of Engineering Materials and Technology, Transactions of the ASME, 2010, 132, .	0.8	81
598	Tubular nanofiber scaffolds for tissue engineered smallâ€diameter vascular grafts. Journal of Biomedical Materials Research - Part A, 2009, 90A, 205-216.	2.1	132
599	Effects of fundamental structure parameters on dynamic responses of submerged floating tunnel under hydrodynamic loads. Acta Mechanica Sinica/Lixue Xuebao, 2009, 25, 335-344.	1.5	40
600	Fracture of V-notched specimens under mixed mode (I + II) loading in brittle materials. International Journal of Fracture, 2009, 159, 121-135.	1.1	121
601	Flow-induced vibrations of long circular cylinders modeled by coupled nonlinear oscillators. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1086-1093.	0.2	64
602	Brittle failures from U―and Vâ€notches in mode I and mixed, I + II, mode: a synthesis based on the strain energy density averaged on finiteâ€size volumes. Fatigue and Fracture of Engineering Materials and Structures, 2009, 32, 671-684.	1.7	133
603	Fatigueâ€relevant stress field parameters of welded lap joints: pointed slit tip compared with keyhole notch. Fatigue and Fracture of Engineering Materials and Structures, 2009, 32, 713-735.	1.7	110
604	Fictitious notch rounding concept applied to sharp V-notches: Evaluation of the microstructural support factor for different failure hypotheses. Engineering Fracture Mechanics, 2009, 76, 1151-1175.	2.0	78
605	Fracture of U-notched specimens under mixed mode: Experimental results and numerical predictions. Engineering Fracture Mechanics, 2009, 76, 236-249.	2.0	97
606	Elastic notch stress intensity factors for sharply V-notched rounded bars under torsion. Engineering Fracture Mechanics, 2009, 76, 439-453.	2.0	35
607	Local fatigue strength parameters for welded joints based on strain energy density with inclusion of small-size notches. Engineering Fracture Mechanics, 2009, 76, 1109-1130.	2.0	75
608	Fatigue assessment of welded joints under slit-parallel loading based on strain energy density or notch rounding. International Journal of Fatigue, 2009, 31, 1490-1504.	2.8	66
609	A review of the volume-based strain energy density approach applied to V-notches and welded structures. Theoretical and Applied Fracture Mechanics, 2009, 52, 183-194.	2.1	412
610	The volume-based Strain Energy Density approach applied to static and fatigue strength assessments of notched and welded structures. Procedia Engineering, 2009, 1, 155-158.	1.2	15
611	Practical Application of the N-SIF Approach in Fatigue Strength Assessment of Welded Joints. Welding in the World, Le Soudage Dans Le Monde, 2009, 53, R76-R89.	1.3	15

#	Article	IF	CITATIONS
613	Effect of Solution Heat Treatments on the Microstructure and Mechanical Properties of a Die-Cast AlSi7MgMn Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 1747-1758.	1.1	41
614	Micromechanics modeling of strength for nanocrystalline copper. Archive of Applied Mechanics, 2008, 78, 465-476.	1.2	3
615	Fatigue strength of a fork-pin equivalent coupling in terms of the local strain energy density. Materials & Design, 2008, 29, 1780-1792.	5.1	39
616	Local strain energy density and fatigue strength of welded joints under uniaxial and multiaxial loading. Engineering Fracture Mechanics, 2008, 75, 1875-1889.	2.0	173
617	The theory of critical distances: a review of its applications in fatigue. Engineering Fracture Mechanics, 2008, 75, 1706-1724.	2.0	265
618	Fictitious notch rounding concept applied to sharp V-notches: Evaluation of the microstructural support factor for different failure hypotheses. Part I: Basic stress equations. Engineering Fracture Mechanics, 2008, 75, 3060-3072.	2.0	62
619	A generalised notch stress intensity factor for U-notched components loaded under mixed mode. Engineering Fracture Mechanics, 2008, 75, 4819-4833.	2.0	89
620	Some advantages derived from the use of the strain energy density over a control volume in fatigue strength assessments of welded joints. International Journal of Fatigue, 2008, 30, 1345-1357.	2.8	174
621	Control volumes and strain energy density under small and large scale yielding due to tension and torsion loading. Fatigue and Fracture of Engineering Materials and Structures, 2008, 31, 95-107.	1.7	67
622	Local strain energy approach applied to fatigue analysis of welded rectangular hollow section joints. International Journal of Materials and Product Technology, 2007, 30, 124.	0.1	5
623	Non-propagating cracks and high-cycle fatigue failures in sharply notched specimens under in-phase Mode I and II loading. Engineering Failure Analysis, 2007, 14, 861-876.	1.8	24
624	Relationships between J-integral and the strain energy evaluated in a finite volume surrounding the tip of sharp and blunt V-notches. International Journal of Solids and Structures, 2007, 44, 4621-4645.	1.3	92
625	Local strain energy to assess the static failure of U-notches in plates under mixed mode loading. International Journal of Fracture, 2007, 145, 29-45.	1.1	176
626	J-integral evaluation for U- and V-blunt notches under Mode I loading and materials obeying a power hardening law. International Journal of Fracture, 2007, 146, 33-51.	1.1	69
627	Fracture assessment of U-notches under mixed mode loading: two procedures based on the â€~equivalent local mode l' concept. International Journal of Fracture, 2007, 148, 415-433.	1.1	147
628	Electrospun nanofibers: solving global issues. Materials Today, 2006, 9, 40-50.	8.3	1,198
629	Generalized stress intensity factors due to steady and transient thermal loads with applications to welded joints. Fatigue and Fracture of Engineering Materials and Structures, 2006, 29, 440-453.	1.7	32
630	Multi-axial fatigue behaviour of a severely notched carbon steel. International Journal of Fatigue, 2006, 28, 485-493.	2.8	103

#	Article	IF	CITATIONS
631	A simplified approach to apply the theory of critical distances to notched components under torsional fatigue loading. International Journal of Fatigue, 2006, 28, 417-430.	2.8	62
632	Stress distributions in notched structural components under pure bending and combined traction and bending. Fatigue and Fracture of Engineering Materials and Structures, 2005, 28, 13-23.	1.7	37
633	Recent development of polymer nanofibers for biomedical and biotechnological applications. Journal of Materials Science: Materials in Medicine, 2005, 16, 933-946.	1.7	561
634	Some Expressions for the Strain Energy in a Finite Volume Surrounding the Root of Blunt V-notches. International Journal of Fracture, 2005, 135, 161-185.	1.1	307
635	From Neuber's Elementary Volume to Kitagawa and Atzori's Diagrams: An Interpretation Based on Local Energy. International Journal of Fracture, 2005, 135, L33-L38.	1.1	71
636	Structure and properties of electrospun PLLA single nanofibres. Nanotechnology, 2005, 16, 208-213.	1.3	273
637	Fabrication and Endothelialization of Collagen-Blended Biodegradable Polymer Nanofibers: Potential Vascular Graft for Blood Vessel Tissue Engineering. Tissue Engineering, 2005, 11, 1574-1588.	4.9	338
638	Three-dimensional linear elastic distributions of stress and strain energy density ahead of V-shaped notches in plates of arbitrary thickness. International Journal of Fracture, 2004, 127, 265-282.	1.1	69
639	Electrospun Nanofiber Fabrication as Synthetic Extracellular Matrix and Its Potential for Vascular Tissue Engineering. Tissue Engineering, 2004, 10, 1160-1168.	4.9	367
640	Multiaxial fatigue life estimations for 6082-T6 cylindrical specimens under in-phase and out-of-phase biaxial loadings. European Structural Integrity Society, 2003, , 83-104.	0.1	39
641	Experiments and analyses on tensile behaviour of a TiAl alloy with lamellar structure. Journal of Materials Science, 2000, 35, 4937-4943.	1.7	2
642	Singularity Characteristics for a Lip-Shaped Crack Subjected to Remote Biaxial Loading. International Journal of Fracture, 1999, 96, 203-214.	1.1	3
643	Collective evolution characteristics and computer simulation of short fatigue cracks. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1997, 75, 1517-1531.	0.7	21
644	Recent Developments in Brittle and Quasi-Brittle Failure Assessment of Graphite by Means of SED. Key Engineering Materials, 0, 577-578, 25-28.	0.4	0
645	High Temperature Fatigue Tests of a Cu-Be Alloy and Synthesis in Terms of Linear Elastic Strain Energy Density. Key Engineering Materials, 0, 627, 77-80.	0.4	20
646	Polymethylmethacrylate Data from U-Notched Specimens and V-Notches with End Holes: A Synthesis by Means of Local Energy. Key Engineering Materials, 0, 627, 73-76.	0.4	0
647	The micromechanicsâ€based rateâ€dependent constitutive model of flawed rocks at intermediate strain rate. Fatigue and Fracture of Engineering Materials and Structures, 0, ,	1.7	2
648	Experimental Verification of the Averaged Strain Energy Density Criterion for Brittle Fracture in Blunt V-Notches under Pure Compression. Strength of Materials, 0, , .	0.2	1