

# Filippo Berto

## List of Publications by Citations

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624  
papers

18,185  
citations

66  
h-index

110  
g-index

656  
ext. papers

21,476  
ext. citations

3.1  
avg, IF

7.78  
L-index

#	Paper	IF	Citations
624	Electrospun nanofibers: solving global issues. <i>Materials Today</i> , <b>2006</b> , 9, 40-50	21.8	1034
623	Recent development of polymer nanofibers for biomedical and biotechnological applications. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2005</b> , 16, 933-46	4.5	501
622	Material issues in additive manufacturing: A review. <i>Journal of Manufacturing Processes</i> , <b>2017</b> , 25, 185-200		434
621	A review of the volume-based strain energy density approach applied to V-notches and welded structures. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2009</b> , 52, 183-194	3.7	366
620	Recent developments in brittle and quasi-brittle failure assessment of engineering materials by means of local approaches. <i>Materials Science and Engineering Reports</i> , <b>2014</b> , 75, 1-48	30.9	357
619	Electrospun nanofiber fabrication as synthetic extracellular matrix and its potential for vascular tissue engineering. <i>Tissue Engineering</i> , <b>2004</b> , 10, 1160-8		340
618	Fabrication and endothelialization of collagen-blended biodegradable polymer nanofibers: potential vascular graft for blood vessel tissue engineering. <i>Tissue Engineering</i> , <b>2005</b> , 11, 1574-88		314
617	Some Expressions for the Strain Energy in a Finite Volume Surrounding the Root of Blunt V-notches. <i>International Journal of Fracture</i> , <b>2005</b> , 135, 161-185	2.3	259
616	Structure and properties of electrospun PLLA single nanofibres. <i>Nanotechnology</i> , <b>2005</b> , 16, 208-13	3.4	245
615	Rapid calculations of notch stress intensity factors based on averaged strain energy density from coarse meshes: Theoretical bases and applications. <i>International Journal of Fatigue</i> , <b>2010</b> , 32, 1559-1567 <sup>5</sup>		225
614	The theory of critical distances: a review of its applications in fatigue. <i>Engineering Fracture Mechanics</i> , <b>2008</b> , 75, 1706-1724	4.2	201
613	Tissue engineered plant extracts as nanofibrous wound dressing. <i>Biomaterials</i> , <b>2013</b> , 34, 724-34	15.6	178
612	Mechanical design and multifunctional applications of chiral mechanical metamaterials: A review. <i>Materials and Design</i> , <b>2019</b> , 180, 107950	8.1	169
611	Improving the fatigue performance of porous metallic biomaterials produced by Selective Laser Melting. <i>Acta Biomaterialia</i> , <b>2017</b> , 47, 193-202	10.8	169
610	Local strain energy to assess the static failure of U-notches in plates under mixed mode loading. <i>International Journal of Fracture</i> , <b>2007</b> , 145, 29-45	2.3	161
609	Some advantages derived from the use of the strain energy density over a control volume in fatigue strength assessments of welded joints. <i>International Journal of Fatigue</i> , <b>2008</b> , 30, 1345-1357	5	158
608	Local strain energy density and fatigue strength of welded joints under uniaxial and multiaxial loading. <i>Engineering Fracture Mechanics</i> , <b>2008</b> , 75, 1875-1889	4.2	142

607	Propensities of crack interior initiation and early growth for very-high-cycle fatigue of high strength steels. <i>International Journal of Fatigue</i> , <b>2014</b> , 58, 144-151	5	135
606	Fracture assessment of U-notches under mixed mode loading: two procedures based on the Equivalent local mode II concept. <i>International Journal of Fracture</i> , <b>2007</b> , 148, 415-433	2.3	133
605	Fatigue strength of severely notched specimens made of Ti6Al4V under multiaxial loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2015</b> , 38, 503-517	3	129
604	The formation mechanism of characteristic region at crack initiation for very-high-cycle fatigue of high-strength steels. <i>International Journal of Fatigue</i> , <b>2016</b> , 89, 108-118	5	128
603	Three-dimensional stress states at crack tip induced by shear and anti-plane loading. <i>Engineering Fracture Mechanics</i> , <b>2013</b> , 108, 65-74	4.2	125
602	Tubular nanofiber scaffolds for tissue engineered small-diameter vascular grafts. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 90, 205-16	5.4	121
601	Brittle failures from U- and V-notches in mode I and mixed, I + II, mode: a synthesis based on the strain energy density averaged on finite-size volumes. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2009</b> , 32, 671-684	3	120
600	Fracture of V-notched specimens under mixed mode (I + II) loading in brittle materials. <i>International Journal of Fracture</i> , <b>2009</b> , 159, 121-135	2.3	116
599	Multiaxial fatigue of V-notched steel specimens: a non-conventional application of the local energy method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2011</b> , 34, 921-943	3	112
598	Fatigue-relevant stress field parameters of welded lap joints: pointed slit tip compared with keyhole notch. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2009</b> , 32, 713-735	3	105
597	Brittle fracture of U-notched graphite plates under mixed mode loading. <i>Materials &amp; Design</i> , <b>2012</b> , 41, 421-432		104
596	Architected cellular materials: A review on their mechanical properties towards fatigue-tolerant design and fabrication. <i>Materials Science and Engineering Reports</i> , <b>2021</b> , 144, 100606	30.9	102
595	Biomedical applications of additive manufacturing: Present and future. <i>Current Opinion in Biomedical Engineering</i> , <b>2017</b> , 2, 105-115	4.4	100
594	A critical distance/plane method to estimate finite life of notched components under variable amplitude uniaxial/multiaxial fatigue loading. <i>International Journal of Fatigue</i> , <b>2012</b> , 38, 7-24	5	95
593	Brittle failure of inclined key-hole notches in isostatic graphite under in-plane mixed mode loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2013</b> , 36, 942-955	3	95
592	Generalized probabilistic model allowing for various fatigue damage variables. <i>International Journal of Fatigue</i> , <b>2017</b> , 100, 187-194	5	93
591	Recent advances in core/shell bicomponent fibers and nanofibers: A review. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46265	2.9	92
590	Fracture of U-notched specimens under mixed mode: Experimental results and numerical predictions. <i>Engineering Fracture Mechanics</i> , <b>2009</b> , 76, 236-249	4.2	92

589	Effects of stress ratio on high-cycle and very-high-cycle fatigue behavior of a Ti6Al4V alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 622, 228-235	5.3	91
588	Evaluation and comparison of critical plane criteria for multiaxial fatigue analysis of ductile and brittle materials. <i>International Journal of Fatigue</i> , <b>2018</b> , 112, 279-288	5	91
587	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. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 97, 419-425	3.7	91
586	Analytical modelling of residual stress in additive manufacturing. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2017</b> , 40, 971-978	3	90
585	On the applicability of ASED criterion for predicting mixed mode I+II fracture toughness results of a rock material. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2017</b> , 92, 198-204	3.7	88
584	Induced out-of-plane mode at the tip of blunt lateral notches and holes under in-plane shear loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2012</b> , 35, 538-555	3	86
583	A comparison among some recent energy- and stress-based criteria for the fracture assessment of sharp V-notched components under Mode I loading. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2014</b> , 71, 21-30	3.7	83
582	Understanding the fracture behavior of brittle and ductile multi-flawed rocks by uniaxial loading by digital image correlation. <i>Engineering Fracture Mechanics</i> , <b>2018</b> , 199, 438-460	4.2	81
581	Coupled fracture mode of a cracked plate under anti-plane loading. <i>Engineering Fracture Mechanics</i> , <b>2015</b> , 134, 391-403	4.2	81
580	Relationships between J-integral and the strain energy evaluated in a finite volume surrounding the tip of sharp and blunt V-notches. <i>International Journal of Solids and Structures</i> , <b>2007</b> , 44, 4621-4645	3.1	81
579	A generalised notch stress intensity factor for U-notched components loaded under mixed mode. <i>Engineering Fracture Mechanics</i> , <b>2008</b> , 75, 4819-4833	4.2	81
578	Multi-axial fatigue behaviour of a severely notched carbon steel. <i>International Journal of Fatigue</i> , <b>2006</b> , 28, 485-493	5	81
577	Fracture behaviour of notched round bars made of PMMA subjected to torsion at 80 °C. <i>Engineering Fracture Mechanics</i> , <b>2013</b> , 102, 271-287	4.2	78
576	Recent advances on notch effects in metal fatigue: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 637-659	3	77
575	Brittle fracture of sharp and blunt V-notches in isostatic graphite under torsion loading. <i>Carbon</i> , <b>2012</b> , 50, 1942-1952	10.4	77
574	Fatigue strength of structural components under multi-axial loading in terms of local energy density averaged on a control volume. <i>International Journal of Fatigue</i> , <b>2011</b> , 33, 1055-1065	5	77
573	Coupled fracture mode of a cracked disc under anti-plane loading. <i>Engineering Fracture Mechanics</i> , <b>2014</b> , 128, 22-36	4.2	76
572	Effect of the thickness on elastic deformation and quasi-brittle fracture of plate components. <i>Engineering Fracture Mechanics</i> , <b>2010</b> , 77, 1665-1681	4.2	76

571	Encapsulation of epoxy and amine curing agent in PAN nanofibers by coaxial electrospinning for self-healing purposes. <i>RSC Advances</i> , <b>2016</b> , 6, 70056-70063	3.7	75
570	Fracture behaviour of notched round bars made of PMMA subjected to torsion at room temperature. <i>Engineering Fracture Mechanics</i> , <b>2012</b> , 90, 143-160	4.2	72
569	Fictitious notch rounding concept applied to sharp V-notches: Evaluation of the microstructural support factor for different failure hypotheses. <i>Engineering Fracture Mechanics</i> , <b>2009</b> , 76, 1151-1175	4.2	72
568	A generalized strain energy density criterion for mixed mode fracture analysis in brittle and quasi-brittle materials. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2015</b> , 79, 70-76	3.7	71
567	On higher order terms and out-of-plane singular mode. <i>Mechanics of Materials</i> , <b>2011</b> , 43, 332-341	3.3	71
566	In vitro and in vivo evaluation of chitosan-alginate/gentamicin wound dressing nanofibrous with high antibacterial performance. <i>Polymer Testing</i> , <b>2020</b> , 82, 106298	4.5	71
565	Brittle fracture of sharp and blunt V-notches in isostatic graphite under pure compression loading. <i>Carbon</i> , <b>2013</b> , 63, 101-116	10.4	70
564	An Elasto-Plastic Reformulation of the Theory of Critical Distances to Estimate Lifetime of Notched Components Failing in the Low/Medium-Cycle Fatigue Regime. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , <b>2010</b> , 132,	1.8	70
563	Fatigue strength of blunt V-notched specimens produced by selective laser melting of Ti-6Al-4V. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 97, 376-384	3.7	69
562	Three dimensional finite element mixed fracture mode under anti-plane loading of a crack. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2012</b> , 62, 26-33	3.7	69
561	Geometry effects on fracture trajectory of PMMA samples under pure mode-I loading. <i>Engineering Fracture Mechanics</i> , <b>2016</b> , 163, 449-461	4.2	68
560	Effect of post-treatments on the fatigue behaviour of 316L stainless steel manufactured by laser powder bed fusion. <i>International Journal of Fatigue</i> , <b>2019</b> , 123, 31-39	5	67
559	A review of digital manufacturing-based hybrid additive manufacturing processes. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 95, 2281-2300	3.2	67
558	High temperature fatigue tests of un-notched and notched specimens made of 40CrMoV13.9 steel. <i>Materials &amp; Design</i> , <b>2014</b> , 63, 609-619		66
557	Towards the development of self-healing carbon/epoxy composites with improved potential provided by efficient encapsulation of healing agents in core-shell nanofibers. <i>Polymer Testing</i> , <b>2017</b> , 62, 79-87	4.5	65
556	Local strain energy density to predict mode II brittle fracture in Brazilian disk specimens weakened by V-notches with end holes. <i>Materials &amp; Design</i> , <b>2015</b> , 69, 22-29		65
555	J-integral evaluation for U- and V-blunt notches under Mode I loading and materials obeying a power hardening law. <i>International Journal of Fracture</i> , <b>2007</b> , 146, 33-51	2.3	65
554	Three-dimensional linear elastic distributions of stress and strain energy density ahead of V-shaped notches in plates of arbitrary thickness. <i>International Journal of Fracture</i> , <b>2004</b> , 127, 265-282	2.3	65

553	Mg and Its Alloys for Biomedical Applications: Exploring Corrosion and Its Interplay with Mechanical Failure. <i>Metals</i> , <b>2017</b> , 7, 252	2.3	64
552	The Theory of Critical Distances to estimate lifetime of notched components subjected to variable amplitude uniaxial fatigue loading. <i>International Journal of Fatigue</i> , <b>2011</b> , 33, 900-911	5	64
551	Progressive failure of brittle rocks with non-isometric flaws: Insights from acousto-optic-mechanical (AOM) data. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 1787-1802	3	63
550	Effect of vertex singularities on stress intensities near plate free surfaces. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2015</b> , 38, 860-869	3	63
549	Generalised Neuber concept of fictitious notch rounding. <i>International Journal of Fatigue</i> , <b>2013</b> , 51, 105-115	3.15	63
548	Out-of-plane singular stress fields in V-notched plates and welded lap joints induced by in-plane shear load conditions. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2011</b> , 34, 291-304	3	63
547	The Theory of Critical Distances as an alternative experimental strategy for the determination of $K_{Ic}$ and $K_{Ith}$ . <i>Engineering Fracture Mechanics</i> , <b>2010</b> , 77, 1492-1501	4.2	62
546	From Neuber's Elementary Volume to Kitagawa and Atzori's Diagrams: An Interpretation Based on Local Energy. <i>International Journal of Fracture</i> , <b>2005</b> , 135, L33-L38	2.3	62
545	Local fatigue strength parameters for welded joints based on strain energy density with inclusion of small-size notches. <i>Engineering Fracture Mechanics</i> , <b>2009</b> , 76, 1109-1130	4.2	61
544	Fatigue assessment of welded joints under slit-parallel loading based on strain energy density or notch rounding. <i>International Journal of Fatigue</i> , <b>2009</b> , 31, 1490-1504	5	61
543	The nature and the mechanism of crack initiation and early growth for very-high-cycle fatigue of metallic materials – An overview. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2017</b> , 92, 331-350	3.7	60
542	Multiaxial notch fatigue <b>2009</b> ,		60
541	Coupled fracture modes of discs and plates under anti-plane loading and a disc under in-plane shear loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2016</b> , 39, 924-938	3	60
540	Control volumes and strain energy density under small and large scale yielding due to tension and torsion loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2008</b> , 31, 95-107	3	59
539	Fictitious notch rounding concept applied to sharp V-notches: Evaluation of the microstructural support factor for different failure hypotheses. Part I: Basic stress equations. <i>Engineering Fracture Mechanics</i> , <b>2008</b> , 75, 3060-3072	4.2	59
538	High-Pressure Die-Casting: Contradictions and Challenges. <i>Jom</i> , <b>2015</b> , 67, 901-908	2.1	58
537	Fatigue properties of ductile cast iron containing chunky graphite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 554, 122-128	5.3	58
536	On Higher Order Terms in the Crack Tip Stress Field. <i>International Journal of Fracture</i> , <b>2010</b> , 161, 221-226.	2.3	58

535	Fatigue of additively manufactured 316L stainless steel: The influence of porosity and surface roughness. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 2043-2052	3	57
534	Transverse singular effects in V-shaped notches stressed in mode II. <i>International Journal of Fracture</i> , <b>2010</b> , 164, 1-14	2.3	57
533	Antioxidant, Antimicrobial and Antiviral Properties of Herbal Materials. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	57
532	Self-healing and interfacially toughened carbon fibre-epoxy composites based on electrospun core-shell nanofibres. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 44956	2.9	56
531	Experimental and theoretical investigation of environmental media on very-high-cycle fatigue behavior for a structural steel. <i>Acta Materialia</i> , <b>2011</b> , 59, 1321-1327	8.4	56
530	Electrospun Nano-Fibers for Biomedical and Tissue Engineering Applications: A Comprehensive Review. <i>Materials</i> , <b>2020</b> , 13,	3.5	55
529	Multiparametric full-field representations of the in-plane stress fields ahead of cracked components under mixed mode loading. <i>International Journal of Fatigue</i> , <b>2013</b> , 46, 16-26	5	55
528	Fatigue behaviour of FDM-3D printed polymers, polymeric composites and architected cellular materials. <i>International Journal of Fatigue</i> , <b>2021</b> , 143, 106007	5	55
527	Fracture assessment of polymethyl methacrylate using sharp notched disc bend specimens under mixed mode I + III loading. <i>Physical Mesomechanics</i> , <b>2016</b> , 19, 355-364	1.6	54
526	Effects of inclusion size and stress ratio on fatigue strength for high-strength steels with fish-eye mode failure. <i>International Journal of Fatigue</i> , <b>2013</b> , 48, 19-27	5	54
525	Prediction of threshold value for FGA formation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 6872-6877	5.3	54
524	A simplified approach to apply the theory of critical distances to notched components under torsional fatigue loading. <i>International Journal of Fatigue</i> , <b>2006</b> , 28, 417-430	5	54
523	Fracture assessment of U-notches under three point bending by means of local energy density. <i>Materials &amp; Design</i> , <b>2011</b> , 32, 822-830		53
522	Facile strategy toward fabrication of highly responsive self-healing carbon/epoxy composites via incorporation of healing agents encapsulated in poly(methylmethacrylate) nanofiber shell. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 59, 456-466	6.3	51
521	Notch-defect interaction in additively manufactured Inconel 718. <i>International Journal of Fatigue</i> , <b>2019</b> , 122, 35-45	5	49
520	Flow-induced vibrations of long circular cylinders modeled by coupled nonlinear oscillators <b>2009</b> , 52, 1086-1093		48
519	Mixed mode I/II fracture investigation of Perspex based on the averaged strain energy density criterion. <i>Physical Mesomechanics</i> , <b>2017</b> , 20, 149-156	1.6	47
518	Fatigue Assessment of Ti6Al4V Circular Notched Specimens Produced by Selective Laser Melting. <i>Metals</i> , <b>2017</b> , 7, 291	2.3	47



517	Fatigue assessment of notched specimens by means of a critical plane-based criterion and energy concepts. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2016</b> , 84, 57-63	3.7	46
516	Low-Cycle Fatigue Behaviour of AISI 18Ni300 Maraging Steel Produced by Selective Laser Melting. <i>Metals</i> , <b>2018</b> , 8, 32	2.3	45
515	Generalized approach to estimation of strains and stresses at blunt V-notches under non-localized creep. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2016</b> , 39, 292-306	3	43
514	Asymptotic residual stresses in butt-welded joints under fatigue loading. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2016</b> , 83, 114-124	3.7	42
513	Regenerative medicine and drug delivery: Progress via electrospun biomaterials. <i>Materials Science and Engineering C</i> , <b>2020</b> , 109, 110521	8.3	41
512	Very-high-cycle fatigue behavior of Ti-6Al-4V manufactured by selective laser melting: Effect of build orientation. <i>International Journal of Fatigue</i> , <b>2020</b> , 136, 105628	5	40
511	Fatigue Behavior of Porous Ti-6Al-4V Made by Laser-Engineered Net Shaping. <i>Materials</i> , <b>2018</b> , 11,	3.5	40
510	Strain energy density to assess mode II fracture in U-notched disk-type graphite plates. <i>International Journal of Damage Mechanics</i> , <b>2014</b> , 23, 917-930	3	40
509	Interfacial toughening of carbon/epoxy composite by incorporating styrene acrylonitrile nanofibers. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 95, 242-247	3.7	39
508	Generalised stress intensity factors for rounded notches in plates under in-plane shear loading. <i>International Journal of Fracture</i> , <b>2011</b> , 170, 123-144	2.3	39
507	Notched plates in mixed mode loading (I+II): a review based on the local strain energy density and the cohesive zone model. <i>Engineering Solid Mechanics</i> , <b>2017</b> , 1-8	1.3	38
506	Fatigue strength assessment of partial and full-penetration steel and aluminium butt-welded joints according to the peak stress method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2015</b> , 38, 1419-1431	3	38
505	High-temperature fatigue strength of a copper-cobalt-beryllium alloy. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2014</b> , 49, 244-256	1.3	38
504	Tangential strain-based criteria for mixed-mode I/II fracture toughness of cement concrete. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2018</b> , 41, 129-137	3	37
503	Three-dimensional stress fields due to notches in plates under linear elastic and elastic-plastic conditions. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2015</b> , 38, 140-153	3	37
502	In-situ investigation on fatigue behaviors of Ti-6Al-4V manufactured by selective laser melting. <i>International Journal of Fatigue</i> , <b>2020</b> , 133, 105424	5	37
501	Elastic-plastic fracture analysis of notched Al 7075-T6 plates by means of the local energy combined with the equivalent material concept. <i>Physical Mesomechanics</i> , <b>2016</b> , 19, 204-214	1.6	37
500	Effects of applied stress ratio on the fatigue behavior of additively manufactured porous biomaterials under compressive loading. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 70, 7-16	4.1	36



499	Review of local strain energy density theory for the fracture assessment of V-notches under mixed mode loading. <i>Engineering Solid Mechanics</i> , <b>2017</b> , 113-132	1.3	36
498	Fracture assessment of sharp V-notched components under Mode II loading: a comparison among some recent criteria. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2016</b> , 85, 217-226	3.7	36
497	New methodology of fatigue life evaluation for multiaxially loaded notched components based on two uniaxial strain-controlled tests. <i>International Journal of Fatigue</i> , <b>2018</b> , 111, 308-320	5	35
496	The behavior of crack initiation and early growth in high-cycle and very-high-cycle fatigue regimes for a titanium alloy. <i>International Journal of Fatigue</i> , <b>2018</b> , 115, 67-78	5	35
495	Rapid finite element evaluation of the averaged strain energy density of mixed-mode (I + II) crack tip fields including the T-stress contribution. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2016</b> , 39, 982-998	3	35
494	New Classification of Defects and Imperfections for Aluminum Alloy Castings. <i>International Journal of Metalcasting</i> , <b>2015</b> , 9, 55-66	1.4	35
493	Some new practical equations for rapid calculation of J-integral in plates weakened by U-notches under bending. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 2964-2971		35
492	Effect of Solution Heat Treatments on the Microstructure and Mechanical Properties of a Die-Cast AlSi7MgMn Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2008</b> , 39, 1747-1758	2.3	35
491	Loss of integrity of hydrogen technologies: A critical review. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 23809-23840	6.7	35
490	Brittle Failure of Graphite Weakened by V-Notches: A Review of Some Recent Results Under Different Loading Modes. <i>Strength of Materials</i> , <b>2015</b> , 47, 488-506	0.6	34
489	Averaged strain energy density evaluated rapidly from the singular peak stresses by FEM: cracked components under mixed-mode (I+II) loading. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2015</b> , 79, 113-124	3.7	34
488	A synthesis of Polymethylmethacrylate data from U-notched specimens and V-notches with end holes by means of local energy. <i>Materials &amp; Design</i> , <b>2013</b> , 49, 826-833		34
487	On the Presence of the Out-of-Plane Singular Mode Induced by Plane Loading With $K_{II} = K_I = 0$ . <i>International Journal of Fracture</i> , <b>2011</b> , 167, 119-126	2.3	34
486	Practical expressions for the notch stress concentration factors of round bars under torsion. <i>International Journal of Fatigue</i> , <b>2011</b> , 33, 382-395	5	34
485	Fatigue strength of steel rollers with failure occurring at the weld root based on the local strain energy values: modelling and fatigue assessment. <i>International Journal of Fatigue</i> , <b>2016</b> , 82, 643-657	5	33
484	Directed Energy Deposition versus Wrought Ti-6Al-4V: A Comparison of Microstructure, Fatigue Behavior, and Notch Sensitivity. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1900220	3.5	33
483	Multiaxial fatigue strength of severely notched cast iron specimens. <i>International Journal of Fatigue</i> , <b>2014</b> , 67, 15-27	5	33
482	Brittle Fracture of Rounded V-Notches in Isostatic Graphite under Static Multiaxial Loading. <i>Physical Mesomechanics</i> , <b>2015</b> , 18, 283-297	1.6	33

481	Fatigue Strength and Crack Initiation Mechanism of Very-High-Cycle Fatigue for Low Alloy Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 2753-2762 <sup>2,3</sup>	33
480	Fatigue strength of a fork-pin equivalent coupling in terms of the local strain energy density. <i>Materials &amp; Design</i> , <b>2008</b> , 29, 1780-1792	33
479	Fracture assessment of polyacrylonitrile nanofiber-reinforced epoxy adhesive. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 97, 448-453	3.7 33
478	The mechanical testing and performance analysis of polymer-fibre composites prepared through the additive manufacturing. <i>Polymer Testing</i> , <b>2021</b> , 93, 106925	4.5 33
477	Rapid assessment of multiaxial fatigue lifetime in notched components using an averaged strain energy density approach. <i>International Journal of Fatigue</i> , <b>2019</b> , 124, 89-98	5 32
476	Fatigue life assessment of notched round bars under multiaxial loading based on the total strain energy density approach. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 97, 340-348	3.7 32
475	Quantification of the Influence of Residual Stresses on Fatigue Strength of Al-Alloy Welded Joints by Means of the Local Strain Energy Density Approach. <i>Strength of Materials</i> , <b>2016</b> , 48, 426-436	0.6 32
474	A survey on multiaxial fatigue damage parameters under non-proportional loadings. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2017</b> , 40, 1323-1342	3 32
473	Stress distributions in notched structural components under pure bending and combined traction and bending. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2005</b> , 28, 13-23	3 32
472	Comparison of TCD and SED methods in fatigue lifetime assessment. <i>International Journal of Fatigue</i> , <b>2019</b> , 123, 105-134	5 32
471	Crack initiation life in notched steel bars under torsional fatigue: Synthesis based on the averaged strain energy density approach. <i>International Journal of Fatigue</i> , <b>2017</b> , 100, 563-574	5 31
470	Elastic notch stress intensity factors for sharply V-notched rounded bars under torsion. <i>Engineering Fracture Mechanics</i> , <b>2009</b> , 76, 439-453	4.2 31
469	3D Printing of polymer composites: A short review. <i>Material Design and Processing Communications</i> , <b>2020</b> , 2, e97	0.9 31
468	A Review of Recent Advances in Nanoengineered Polymer Composites. <i>Polymers</i> , <b>2019</b> , 11,	4.5 30
467	Experimental study on effects of freeze-thaw fatigue damage on the cracking behaviors of sandstone containing two unparallel fissures. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 1322-1340	3 30
466	Study of the effect of heat treatment on fatigue crack growth behaviour of 316L stainless steel produced by selective laser melting. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2018</b> , 41, 1102-1119	3 30
465	Analysis of creep stresses and strains around sharp and blunt V-notches. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2016</b> , 85, 435-446	3.7 30
464	Cyclic plasticity in three-dimensional notched components under in-phase multiaxial loading at R = $\frac{1}{2}$ . <i>Theoretical and Applied Fracture Mechanics</i> , <b>2016</b> , 81, 76-88	3.7 30

463	Effect of Grain Refinement and Cooling Rate on the Microstructure and Mechanical Properties of Secondary Al-Si-Cu Alloys. <i>Journal of Materials Engineering and Performance</i> , <b>2014</b> , 23, 611-621	1.6	30
462	Fictitious notch rounding concept applied to V-notches with root holes subjected to in-plane shear loading. <i>Engineering Fracture Mechanics</i> , <b>2012</b> , 79, 281-294	4.2	30
461	The Theory of Critical Distances to estimate finite lifetime of notched components subjected to constant and variable amplitude torsional loading. <i>Engineering Fracture Mechanics</i> , <b>2013</b> , 98, 64-79	4.2	30
460	Effects of fundamental structure parameters on dynamic responses of submerged floating tunnel under hydrodynamic loads. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2009</b> , 25, 335-344	2	30
459	The effect of loading rate on fracture energy of asphalt mixture at intermediate temperatures and under different loading modes. <i>Frattura Ed Integrita Strutturale</i> , <b>2018</b> , 12, 113-132	0.9	30
458	The Effect of Transition Elements on High-Temperature Mechanical Properties of AlBi Foundry Alloys A Review. <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 1096-1105	3.5	30
457	Defects as a root cause of fatigue weakening of additively manufactured AlSi10Mg components. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2020</b> , 108, 102611	3.7	29
456	Grain refinement of gravity die cast secondary AlSi7Cu3Mg alloys for automotive cylinder heads. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2016</b> , 26, 1211-1221	3.3	29
455	The Effects of Microstructure Heterogeneities and Casting Defects on the Mechanical Properties of High-Pressure Die-Cast AlSi9Cu3(Fe) Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 5486-5498	2.3	29
454	A criterion based on the local strain energy density for the fracture assessment of cracked and V-notched components made of incompressible hyperelastic materials. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2015</b> , 76, 17-26	3.7	29
453	Fictitious Notch Rounding approach of pointed V-notch under in-plane shear. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2010</b> , 53, 127-135	3.7	29
452	Global-local fatigue assessment of an ancient riveted metallic bridge based on submodelling of the critical detail. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 546-560	3	29
451	Notched Ti-6Al-4V titanium bars under multiaxial fatigue: Synthesis of crack initiation life based on the averaged strain energy density. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 96, 509-533	3.7	29
450	3D numerical simulation of initiation, propagation and coalescence of cracks using the extended non-ordinary state-based peridynamics. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2019</b> , 101, 254-268	3.7	28
449	Tensile fracture analysis of V-notches with end holes by means of the local energy. <i>Physical Mesomechanics</i> , <b>2015</b> , 18, 194-202	1.6	28
448	Carbon Nanotubes (CNTs)-Reinforced Magnesium-Based Matrix Composites: A Comprehensive Review. <i>Materials</i> , <b>2020</b> , 13,	3.5	28
447	Precipitation of primary Fe-rich compounds in secondary AlSi9Cu3(Fe) alloys. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2016</b> , 123, 249-262	4.1	27
446	The effects of different boundary conditions on three-dimensional cracked discs under anti-plane loading. <i>European Journal of Mechanics, A/Solids</i> , <b>2015</b> , 50, 76-86	3.7	27

445	A model to predict $S-N$ curves for surface and subsurface crack initiations in different environmental media. <i>International Journal of Fatigue</i> , <b>2015</b> , 71, 35-44	5	27
444	Polymer Recycling in Additive Manufacturing: an Opportunity for the Circular Economy. <i>Materials Circular Economy</i> , <b>2020</b> , 2, 1	4.3	27
443	Three-Dimensional Printing Constructs Based on the Chitosan for Tissue Regeneration: State of the Art, Developing Directions and Prospect Trends. <i>Materials</i> , <b>2020</b> , 13,	3.5	27
442	Fracture Analysis in Brittle Sandstone by Digital Imaging and AE Techniques: Role of Flaw Length Ratio. <i>Journal of Materials in Civil Engineering</i> , <b>2020</b> , 32, 04020085	3	27
441	Local strain energy density to predict size-dependent brittle fracture of cracked specimens under mixed mode loading. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2016</b> , 86, 217-224	3.7	27
440	On a coupled mode at sharp notches subjected to anti-plane loading. <i>European Journal of Mechanics, A/Solids</i> , <b>2013</b> , 38, 70-78	3.7	27
439	A synthesis of data from steel spot welded joints of reduced thickness by means of local SED. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2013</b> , 63-64, 32-39	3.7	27
438	Fictitious notch rounding concept applied to V-notches with end holes under mode 3 loading. <i>International Journal of Fatigue</i> , <b>2012</b> , 38, 188-193	5	27
437	Generalized stress intensity factors due to steady and transient thermal loads with applications to welded joints. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2006</b> , 29, 440-453	3	27
436	Three-dimensional effects at the tip of rounded notches subjected to mode-I loading under cyclic plasticity. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2015</b> , 50, 299-313	1.3	26
435	Experimental and theoretical investigation of brittle fracture in key-hole notches under mixed mode I/II loading. <i>Acta Mechanica</i> , <b>2015</b> , 226, 2313-2322	2.1	26
434	Fracture Assessment of Blunt V-Notched Graphite Specimens by Means of the Strain Energy Density. <i>Strength of Materials</i> , <b>2013</b> , 45, 635-647	0.6	26
433	Influence of Injection Parameters on the Porosity and Tensile Properties of High-Pressure Die Cast Al-Si Alloys: A Review. <i>International Journal of Metalcasting</i> , <b>2015</b> , 9, 43-53	1.4	26
432	Fictitious Notch Rounding Concept Applied to V-Notches with End Holes Under Mode I Loading. <i>International Journal of Fracture</i> , <b>2011</b> , 171, 91-98	2.3	26
431	Exploring the hybrid metal extrusion and bonding process for butt welding of AlMgSi alloys. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 98, 1059-1065	3.2	25
430	Notch stress intensity factors of flat plates with periodic sharp notches by using the strain energy density. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2012</b> , 60, 38-50	3.7	25
429	A brief review of recent three-dimensional studies of brittle fracture. <i>Physical Mesomechanics</i> , <b>2016</b> , 19, 6-20	1.6	25
428	Characterization of the solidification path and microstructure of secondary Al-7Si-3Cu-0.3Mg alloy with Zr, V and Ni additions. <i>Materials Characterization</i> , <b>2017</b> , 128, 100-108	3.9	24

427	An experimental study of the mechanical and fracturing behavior in PMMA specimen containing multiple 3D embedded flaws under uniaxial compression. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2019</b> , 101, 207-216	3.7	24
426	Polymethyl Methacrylate-Based Bone Cements Containing Carbon Nanotubes and Graphene Oxide: An Overview of Physical, Mechanical, and Biological Properties. <i>Polymers</i> , <b>2020</b> , 12,	4.5	24
425	Evaluation of fracture mode classification in flawed red sandstone under uniaxial compression. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2020</b> , 107, 102528	3.7	24
424	Evaluation of the strain energy density control volume for a nanoscale singular stress field. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2016</b> , 39, 1557-1564	3	24
423	Multiaxial fatigue life estimations for 6082-T6 cylindrical specimens under in-phase and out-of-phase biaxial loadings. <i>European Structural Integrity Society</i> , <b>2003</b> , 83-104		24
422	Mixed mode fracture assessment of U-notched graphite Brazilian disk specimens by means of the local energy. <i>Structural Engineering and Mechanics</i> , <b>2014</b> , 50, 723-740		24
421	High-cycle and very-high-cycle fatigue behaviour of a titanium alloy with equiaxed microstructure under different mean stresses. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 1950-1964	3	23
420	Influence of Sludge Particles on the Tensile Properties of Die-Cast Secondary Aluminum Alloys. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2015</b> , 46, 1022-1034	2.5	23
419	On Scale Effect in Plates Weakened by Rounded V-Notches and Subjected to In-Plane Shear Loading. <i>International Journal of Fracture</i> , <b>2013</b> , 180, 111-118	2.3	23
418	Future of additive manufacturing in healthcare. <i>Current Opinion in Biomedical Engineering</i> , <b>2021</b> , 17, 100255	4.1	23
417	Effect of neat and reinforced polyacrylonitrile nanofibers incorporation on interlaminar fracture toughness of carbon/epoxy composite. <i>Theoretical and Applied Mechanics Letters</i> , <b>2018</b> , 8, 126-131	1.8	23
416	Crack growth in a naturally corroded bridge steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2017</b> , 40, 1117-1127	3	22
415	Mechanical and Fatigue Properties of Heavy Section Solution Strengthened Ferritic Ductile Iron Castings . <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 2070-2075	3.5	22
414	Predicting fretting fatigue in engineering design. <i>International Journal of Fatigue</i> , <b>2018</b> , 117, 314-326	5	22
413	Asymptotic residual stress distribution induced by multipass welding processes. <i>International Journal of Fatigue</i> , <b>2017</b> , 101, 421-429	5	22
412	Mode I Fracture Analysis of Polymethylmetacrylate Using Modified Energy-Based Models. <i>Physical Mesomechanics</i> , <b>2015</b> , 18, 326-336	1.6	22
411	Recent Trends in Three-Dimensional Bioinks Based on Alginate for Biomedical Applications. <i>Materials</i> , <b>2020</b> , 13,	3.5	22
410	Proportional/nonproportional constant/variable amplitude multiaxial notch fatigue: cyclic plasticity, non-zero mean stresses, and critical distance/plane. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 1849-1873	3	21

409	A two-parameter model to predict fatigue life of high-strength steels in a very high cycle fatigue regime. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2015</b> , 31, 383-391	2	21
408	A synthesis of geometry effect on brittle fracture. <i>Engineering Fracture Mechanics</i> , <b>2018</b> , 187, 94-102	4.2	21
407	Experimental study of the simultaneous effect of nano-silica and nano-carbon black on permeability and mechanical properties of the concrete. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2019</b> , 104, 102391	3.7	21
406	The Flame Retardancy of Polyethylene Composites: From Fundamental Concepts to Nanocomposites. <i>Molecules</i> , <b>2020</b> , 25,	4.8	21
405	Advanced Materials for Applications at High Temperature: Fatigue Assessment by Means of Local Strain Energy Density. <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 2010-2017	3.5	21
404	Comparison of different one-parameter damage laws and local stress-strain approaches in multiaxial fatigue life assessment of notched components. <i>International Journal of Fatigue</i> , <b>2021</b> , 151, 106405	5	21
403	Fracture tests under mixed mode I + III loading: An assessment based on the local energy. <i>International Journal of Damage Mechanics</i> , <b>2017</b> , 26, 881-894	3	20
402	The effects of microporosity in struts of gyroid lattice structures produced by laser powder bed fusion. <i>Materials and Design</i> , <b>2020</b> , 194, 108899	8.1	20
401	Electrospun nanofiber interleaving in fiber reinforced compositesRecent trends. <i>Material Design and Processing Communications</i> , <b>2019</b> , 1, e24	0.9	20
400	Nanomaterials: Solutions to Water-Concomitant Challenges. <i>Membranes</i> , <b>2019</b> , 9,	3.8	19
399	Effect of notch depth and radius on the critical fracture load of bainitic functionally graded steels under mixed mode I + II loading. <i>Physical Mesomechanics</i> , <b>2014</b> , 17, 178-189	1.6	19
398	Averaged strain energy density and J-integral for U- and blunt V-shaped notches under torsion. <i>International Journal of Fracture</i> , <b>2014</b> , 188, 173-186	2.3	19
397	Three-dimensional effects in finite thickness plates weakened by rounded notches and holes under in-plane shear. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2013</b> , 36, 1139-1152	3	19
396	Fatigue strength of Al7075 notched plates based on the local SED averaged over a control volume. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2014</b> , 57, 30-38	3.6	19
395	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. <i>Physical Mesomechanics</i> , <b>2012</b> , 15, 26-36	1.6	19
394	Stress concentration factors of periodic notches determined from the strain energy density. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2011</b> , 56, 127-139	3.7	19
393	Fatigue and fracture assessment of notched components by means of the Strain Energy Density. <i>Engineering Fracture Mechanics</i> , <b>2016</b> , 167, 176-187	4.2	19
392	Shattered rim and shelling of high-speed railway wheels in the very-high-cycle fatigue regime under rolling contact loading. <i>Engineering Failure Analysis</i> , <b>2019</b> , 97, 556-567	3.2	19



391	Static assessment of plain/notched polylactide (PLA) 3D-printed with different infill levels: Equivalent homogenised material concept and Theory of Critical Distances. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 883-904	3	19
390	Fatigue crack initiation behaviour of notched 34CrNiMo6 steel bars under proportional bending-torsion loading. <i>International Journal of Fatigue</i> , <b>2020</b> , 130, 105268	5	19
389	Enhancement of stress corrosion cracking of AZ31 magnesium alloy in simulated body fluid thanks to cryogenic machining. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 101, 103429	4.1	19
388	Effect of heat treatment on fatigue behavior of as-built notched Co-Cr-Mo parts produced by Selective Laser Melting. <i>International Journal of Fatigue</i> , <b>2021</b> , 142, 105926	5	19
387	Fatigue strength improvement of heavy-section pearlitic ductile iron castings by in-mould inoculation treatment. <i>International Journal of Fatigue</i> , <b>2017</b> , 102, 221-227	5	18
386	On the evaluation of stress intensity factor from displacement field affected by 3D corner singularity. <i>International Journal of Solids and Structures</i> , <b>2016</b> , 78-79, 131-137	3.1	18
385	Effects of loading condition on very-high-cycle fatigue behaviour and dominant variable analysis. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2014</b> , 57, 74-82	3.6	18
384	Collective evolution characteristics and computer simulation of short fatigue cracks. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1997</b> , 75, 1517-1531		18
383	Non-propagating cracks and high-cycle fatigue failures in sharply notched specimens under in-phase Mode I and II loading. <i>Engineering Failure Analysis</i> , <b>2007</b> , 14, 861-876	3.2	18
382	Mode II Brittle Fracture Assessment of Key-Hole Notches by Means of the Local Energy. <i>Journal of Testing and Evaluation</i> , <b>2016</b> , 44, 20140295	1	18
381	Cracking process and acoustic emission characteristics of sandstone with two parallel filled-flaws under biaxial compression. <i>Engineering Fracture Mechanics</i> , <b>2020</b> , 237, 107253	4.2	18
380	Fatigue assessment of as-built and heat-treated Inconel 718 specimens produced by additive manufacturing including notch effects. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 2326-2336	3	18
379	A New Criterion for Rupture Assessment of Rubber-Like Materials under Mode-I Crack Loading: The Effective Stretch Criterion. <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 1364-1370	3.5	18
378	Crack initiation behavior and fatigue performance up to very-high-cycle regime of AlSi10Mg fabricated by selective laser melting with two powder sizes. <i>International Journal of Fatigue</i> , <b>2021</b> , 143, 106013	5	18
377	Low-Cycle Fatigue Behavior of 10CrNi3MoV High Strength Steel and Its Undermatched Welds. <i>Materials</i> , <b>2018</b> , 11,	3.5	18
376	Inverse determination of the fatigue Strain Energy Density control radius for conventionally and additively manufactured rounded V-notches. <i>International Journal of Fatigue</i> , <b>2019</b> , 126, 306-318	5	17
375	Microstructural analysis and fatigue crack initiation modelling of additively manufactured 316L after different heat treatments. <i>Materials and Design</i> , <b>2020</b> , 194, 108962	8.1	17
374	Local strain energy density applied to martensitic steel plates weakened by U-notches under mixed mode loading. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2012</b> , 59, 21-28	3.7	17

373	Elastic stress analysis of blunt V-notches under mixed mode loading by considering higher order terms. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 78, 665-684	4.5	17
372	Post-treatment selection for tailored fatigue performance of 18Ni300 maraging steel manufactured by laser powder bed fusion. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 2359-2375	3	17
371	Recent Advances on Bioprinted Gelatin Methacrylate-Based Hydrogels for Tissue Repair. <i>Tissue Engineering - Part A</i> , <b>2021</b> , 27, 679-702	3.9	17
370	The effect of defects and notches in quasi-static and fatigue loading of Inconel 718 specimens produced by selective laser melting. <i>International Journal of Fatigue</i> , <b>2020</b> , 137, 105637	5	17
369	Mixed-mode (I/II) failure assessment of rubber materials using the effective stretch criterion. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2017</b> , 91, 126-133	3.7	16
368	Progress in Solid State Joining of Metals and Alloys. <i>Procedia Structural Integrity</i> , <b>2019</b> , 17, 788-798	1	16
367	Novel method for the fatigue strength assessment of heavy sections made by ductile cast iron in presence of solidification defects. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2018</b> , 41, 1746-1757	3	16
366	Effects of Loading Frequency and Loading Type on High-Cycle and Very-High-Cycle Fatigue of a High-Strength Steel. <i>Materials</i> , <b>2018</b> , 11,	3.5	16
365	A review on coupled modes in V-notched plates of finite thickness: A generalized approach to the problem. <i>Physical Mesomechanics</i> , <b>2013</b> , 16, 378-390	1.6	16
364	Extension of linear elastic strain energy density approach to high temperature fatigue and a synthesis of Cu-Be alloy experimental tests. <i>Engineering Solid Mechanics</i> , <b>2015</b> , 3, 111-116	1.3	16
363	High Temperature Fatigue Tests of a Cu-Be Alloy and Synthesis in Terms of Linear Elastic Strain Energy Density. <i>Key Engineering Materials</i> , <b>2014</b> , 627, 77-80	0.4	16
362	Fictitious notch rounding concept applied to V-notches with root hole subjected to in-plane mixed mode loading. <i>Engineering Fracture Mechanics</i> , <b>2014</b> , 128, 171-188	4.2	16
361	Novel hybridized adaptive neuro-fuzzy inference system models based particle swarm optimization and genetic algorithms for accurate prediction of stress intensity factor. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 2653-2667	3	16
360	Porosity Inducing Process Parameters in Selective Laser Melted AlSi10Mg Aluminium Alloy. <i>Physical Mesomechanics</i> , <b>2020</b> , 23, 256-262	1.6	16
359	Very-high-cycle fatigue behavior of AlSi10Mg manufactured by selected laser melting: Crystal plasticity modeling. <i>International Journal of Fatigue</i> , <b>2021</b> , 145, 106109	5	16
358	Effects of tension on vortex-induced vibration (VIV) responses of a long tensioned cylinder in uniform flows. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2017</b> , 33, 1-9	2	15
357	Crack growth rates and microstructure feature of initiation region for very-high-cycle fatigue of a high-strength steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2018</b> , 41, 1717-1732	3	15
356	Static assessment of nanoscale notched silicon beams using the averaged strain energy density method. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 95, 261-269	3.7	15

355	High Temperature Fatigue Tests of Cu-be and 40CrMoV13.9 Alloys <b>2014</b> , 3, 27-32		15
354	A comparison between rapid expressions for evaluation of the critical J-integral in plates with U-notches under mode I loading. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2011</b> , 46, 852-865	1-3	15
353	Calibration of the potential drop method by means of electric FE analyses and experimental validation for a range of crack shapes. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2018</b> , 41, 2272-2287	3	15
352	Mechanical and fatigue properties of pearlitic ductile iron castings characterized by long solidification times. <i>Engineering Failure Analysis</i> , <b>2017</b> , 79, 902-912	3-2	15
351	3D printed microneedles for transdermal drug delivery: A brief review of two decades. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 597, 120301	6.5	15
350	Compression-induced crack initiation and growth in flawed rocks: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 1681	3	15
349	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. <i>Physical Mesomechanics</i> , <b>2016</b> , 19, 382-391	1.6	15
348	Influence of processing parameters of selective laser melting on high-cycle and very-high-cycle fatigue behaviour of Ti-6Al-4V. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 240-256	3	15
347	Experimental verification of two stress-based criteria for mixed mode I/III brittle fracture assessment of U-notched components. <i>Engineering Fracture Mechanics</i> , <b>2017</b> , 182, 229-244	4-2	14
346	A new fixture for fracture tests under mixed mode I/II/III loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 1874-1888	3	14
345	Fatigue data interpretation of 7075-T6 Al sheets by energy density factor in a dual scale model. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2015</b> , 79, 98-104	3-7	14
344	Comparing physiologically relevant corrosion performances of Mg AZ31 alloy protected by ALD and sputter coated TiO <sub>2</sub> . <i>Surface and Coatings Technology</i> , <b>2020</b> , 395, 125922	4-4	14
343	On the second non-singular stress term of the V-notch solution: a new engineering solution. <i>International Journal of Fracture</i> , <b>2013</b> , 181, 83-98	2-3	14
342	Feasibility study on buoyancy-weight ratios of a submerged floating tunnel prototype subjected to hydrodynamic loads. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2015</b> , 31, 750-761	2	14
341	Practical Application of the N-SIF Approach in Fatigue Strength Assessment of Welded Joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , <b>2009</b> , 53, R76-R89	1-9	14
340	Fatigue assessment of high strength welded joints through the strain energy density method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 2694-2702	3	14
339	Averaged strain energy density estimated rapidly from the singular peak stresses by FEM: Cracked bars under mixed-mode (I + III) loading. <i>Engineering Fracture Mechanics</i> , <b>2016</b> , 167, 20-33	4-2	14
338	Damage analysis of sandstone during the creep stage under the different levels of uniaxial stress using NMR measurements. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 719-732	3	14

337	Using the Hybrid Metal Extrusion & Bonding (HYB) Process for Dissimilar Joining of AA6082-T6 and S355. <i>Procedia Structural Integrity</i> , <b>2018</b> , 13, 249-254	1	14
336	Effect of T6 Heat Treatment on the Microstructure and Hardness of Secondary AlSi9Cu3(Fe) Alloys Produced by Semi-Solid SEED Process. <i>Metals</i> , <b>2018</b> , 8, 750	2.3	14
335	Fatigue failure transition analysis in load-carrying cruciform welded joints based on strain energy density approach. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2017</b> , 40, 1164-1177	3	13
334	A new expression to evaluate the critical fracture load for bainitic functionally graded steels under mixed mode (I + II) loading. <i>Engineering Failure Analysis</i> , <b>2015</b> , 48, 121-136	3.2	13
333	Analysis of the plastic zone near the crack tips under the uniaxial tension using ordinary state-based peridynamics. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2018</b> , 41, 1159-1170	3.7	13
332	Flexural behavior of metallic fiber-reinforced adhesively bonded single lap joints <b>2018</b> , 94, 453-472		13
331	Influence of Melt Superheat, Sr Modifier, and Al-5Ti-1B Grain Refiner on Microstructural Evolution of Secondary Al-Si-Cu Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 5510-5521	2.3	13
330	Microstructural and Mechanical Properties of Al-Based Composites Reinforced with In-Situ and Ex-Situ Al <sub>2</sub> O <sub>3</sub> Nanoparticles. <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 550-558	3.5	13
329	A status report on the hybrid metal extrusion & bonding (HYB) process and its applications. <i>Material Design and Processing Communications</i> , <b>2019</b> , 1, e41	0.9	13
328	Evaluating Mechanical Properties of Macro-Synthetic Fiber-Reinforced Concrete with Various Types and Contents. <i>Strength of Materials</i> , <b>2017</b> , 49, 618-626	0.6	13
327	Influence of Grain Refiner Addition on the Precipitation of Fe-Rich Phases in Secondary AlSi7Cu3Mg Alloys. <i>International Journal of Metalcasting</i> , <b>2017</b> , 11, 294-304	1.4	13
326	Application of the strain energy density approach in comparing different design solutions for improving the fatigue strength of load carrying shear welded joints. <i>International Journal of Fatigue</i> , <b>2017</b> , 101, 371-384	5	13
325	Improving stress corrosion cracking behavior of AZ31 alloy with conformal thin titania and zirconia coatings for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 111, 104005	4.1	13
324	Graphene Family Nanomaterial Reinforced Magnesium-Based Matrix Composites for Biomedical Application: A Comprehensive Review. <i>Metals</i> , <b>2020</b> , 10, 1002	2.3	13
323	Fracture behaviour of notched as-built EBM parts: Characterization and interplay between defects and notch strengthening behaviour. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 98, 178-185	3.7	13
322	Mode II brittle fracture assessment using an energy based criterion. <i>Physical Mesomechanics</i> , <b>2017</b> , 20, 142-148	1.6	12
321	Strain energy density based fatigue cracking assessment of load-carrying cruciform welded joints. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2017</b> , 90, 142-153	3.7	12
320	Simulation of cracking behaviours in interlayered rocks with flaws subjected to tension using a phase-field method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 1679-1698	3	12

319	Rupture analysis of rubber in the presence of a sharp V-shape notch under pure mode-I loading. <i>International Journal of Mechanical Sciences</i> , <b>2018</b> , 146-147, 405-415	5.5	12
318	Estimation of stress field for sharp V-notch in power-law creeping solids: An asymptotic viewpoint. <i>International Journal of Solids and Structures</i> , <b>2019</b> , 180-181, 189-204	3.1	12
317	A FEM based methodology to simulate multiple crack propagation in friction stir welds. <i>Engineering Fracture Mechanics</i> , <b>2017</b> , 184, 154-167	4.2	12
316	Fracture Assessment of PEEK under Static Loading by Means of the Local Strain Energy Density. <i>Materials</i> , <b>2017</b> , 10,	3.5	12
315	Tensile fracture analysis of blunt notched PMMA specimens by means of the Strain Energy Density. <i>Engineering Solid Mechanics</i> , <b>2015</b> , 3, 35-42	1.3	12
314	Effect of V and Zr microalloying, and heat treatment on microstructure and mechanical properties of secondary Al-7Si-3Cu-0.3Mg alloy. <i>International Journal of Materials Research</i> , <b>2018</b> , 109, 1099-1112	0.5	12
313	Rupture Predictions of Notched Ti-6Al-4V Using Local Approaches. <i>Materials</i> , <b>2018</b> , 11,	3.5	12
312	An analytical framework for modelling intermetallic compound (IMC) formation and optimising bond strength in aluminium-steel welds. <i>Material Design and Processing Communications</i> , <b>2019</b> , 1, e57	0.9	11
311	XFEM based node scheme for the frictional contact crack problem. <i>Computers and Structures</i> , <b>2020</b> , 231, 106221	4.5	11
310	Experimental notched fracture resistance study for the interface of AlTi bimetal joints welded by friction stir welding. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2018</b> , 232, 2192-2200	2.4	11
309	Large-Scale Yielding Failure Prediction of Notched Ductile Plates by Means of the Linear Elastic Notch Fracture Mechanics. <i>Strength of Materials</i> , <b>2017</b> , 49, 224-233	0.6	11
308	Evaluating the Tensile Properties of Aluminum Foundry Alloys through Reference Castings-A Review. <i>Materials</i> , <b>2017</b> , 10,	3.5	11
307	Analytical expressions for the notch stress intensity factors of periodic V-notches under tension by using the strain energy density approach. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2013</b> , 48, 291-305	1.3	11
306	Probabilistic fatigue modelling of metallic materials under notch and size effect using the weakest link theory. <i>International Journal of Fatigue</i> , <b>2022</b> , 159, 106788	5	11
305	A diagram for capturing and predicting failure locations in notch geometries produced by additive manufacturing. <i>International Journal of Fatigue</i> , <b>2020</b> , 134, 105428	5	11
304	Recent Advances in Chemically-Modified and Hybrid Carrageenan-Based Platforms for Drug Delivery, Wound Healing, and Tissue Engineering. <i>Polymers</i> , <b>2021</b> , 13,	4.5	11
303	Fracture Behavior of Cracked Giant Magnetostrictive Materials in Three-Point Bending under Magnetic Fields: Strain Energy Density Criterion. <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 2063-2069	3.5	11
302	On the fatigue propagation of multiple cracks in friction stir weldments using linear and non-linear models under cyclic tensile loading. <i>Engineering Fracture Mechanics</i> , <b>2019</b> , 206, 463-484	4.2	11



301	Porosity effect on tensile behavior of Ti-6Al-4V specimens produced by laser engineered net shaping technology. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2021</b> , 235, 1930-1937	1.3	11
300	Fatigue Strength Assessment of Steel Rollers: On the Reliability of the Strain Energy Density Approach on Real Components. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1015	2.6	11
299	A simplified extension of the Crack Analogue model for fretting fatigue with varying normal load. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2017</b> , 91, 37-43	3.7	10
298	Evolution of Fe-rich compounds in a secondary AlSiCu alloy: influence of cooling rate. <i>International Journal of Materials Research</i> , <b>2015</b> , 106, 719-724	0.5	10
297	Rapid strain energy density evaluation for V-notches under mode I loading conditions. <i>Engineering Failure Analysis</i> , <b>2020</b> , 110, 104361	3.2	10
296	Influence of solidification defects on the fatigue behaviour of heavy-section silicon strengthened ferritic ductile cast irons. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2018</b> , 41, 2231-2238	3	10
295	Effect of in-mould inoculant composition on microstructure and fatigue behaviour of heavy section ductile iron castings. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 3150-3157	1	10
294	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 assessments. <i>International Journal of Fracture</i> , <b>2016</b> , 199, 169-184	2.3	10
293	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. <i>Procedia Structural Integrity</i> , <b>2019</b> , 17, 632-642	1	10
292	Some recent results on the fatigue strength of notched specimens made of 40CrMoV13.9 steel at room and high temperature. <i>Physical Mesomechanics</i> , <b>2015</b> , 18, 105-126	1.6	10
291	Fatigue strength analysis of notched aluminium specimens using the highly stressed volume method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2012</b> , 35, 154-159	3	10
290	The volume-based Strain Energy Density approach applied to static and fatigue strength assessments of notched and welded structures. <i>Procedia Engineering</i> , <b>2009</b> , 1, 155-158		10
289	Dynamic splitting tensile properties of concrete and cement mortar. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 757-770	3	10
288	Simple and effective approach to modeling crack propagation in the framework of extended finite element method. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2020</b> , 106, 102452	3.7	10
287	Effects of inclusion size and stress ratio on the very-high-cycle fatigue behavior of pearlitic steel. <i>International Journal of Fatigue</i> , <b>2021</b> , 142, 105958	5	10
286	Additively manufactured Ti-6Al-4V thin struts via laser powder bed fusion: Effect of building orientation on geometrical accuracy and mechanical properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 119, 104495	4.1	10
285	Fatigue fracture and fatigue life assessment of railway wheel using non-linear model for fatigue crack growth. <i>International Journal of Fatigue</i> , <b>2021</b> , 153, 106516	5	10
284	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. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2017</b> , 92, 47-58	3.7	9



283	A simplified model for TIG-dressing numerical simulation. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2017</b> , 25, 035012	2	9
282	Non-linear models for assessing the fatigue crack behaviour under cyclic biaxial loading in a cruciform specimen. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2019</b> , 100, 14-26	3-7	9
281	Synchrotron X-ray micro-computed tomography imaging of 3D re-entrant micro lattice during in situ micro compression experimental process. <i>Materials and Design</i> , <b>2020</b> , 192, 108743	8.1	9
280	A review of the fatigue strength of structural materials under multiaxial loading in terms of the local energy density. <i>Engineering Solid Mechanics</i> , <b>2017</b> , 245-270	1.3	9
279	The peak stress method to calculate residual notch stress intensity factors in welded joints. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2018</b> , 41, 727-738	3	9
278	Fracture assessment of V-notched specimens with end holes made of tungsten-copper functionally graded material under mode I loading. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 97, 357-367	3-7	9
277	Strain energy density approach for failure evaluation of occlusal loaded ceramic tooth crowns. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2012</b> , 58, 44-50	3-7	9
276	Fatigue behaviour of welded structural steel subjected to hot-dip galvanization process. <i>International Journal of Fatigue</i> , <b>2017</b> , 101, 439-447	5	9
275	The role of notch tip shape and radius on deformation mechanisms of 12Cr1MoV steel under impact loading. Part 1. Energy parameters of fracture. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2017</b> , 40, 586-596	3	9
274	Fatigue behaviour of notched laser powder bed fusion AlSi10Mg after thermal and mechanical surface post-processing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 829, 142145	5.3	9
273	Fatigue of V-notched ZK60 magnesium samples: X-ray damage evolution characterization and failure prediction. <i>International Journal of Fatigue</i> , <b>2020</b> , 139, 105734	5	9
272	A Comprehensive Review on Surface Modifications of Biodegradable Magnesium-Based Implant Alloy: Polymer Coatings Opportunities and Challenges. <i>Coatings</i> , <b>2021</b> , 11, 747	2.9	9
271	Fatigue behaviour of maraging steel samples produced by SLM under constant and variable amplitude loading. <i>Procedia Structural Integrity</i> , <b>2019</b> , 22, 10-16	1	9
270	Novel strategy for quality improvement of up-facing inclined surfaces of LPBF parts by combining laser-induced shock waves and in situ laser remelting. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 290, 116981	5.3	9
269	The influence of size and healing content on the performance of extrinsic self-healing coatings. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49964	2.9	9
268	Fatigue assessment of cruciform joints: Comparison between Strain Energy Density predictions and current standards and recommendations. <i>Engineering Structures</i> , <b>2021</b> , 230, 111708	4.7	9
267	Averaged strain energy density criterion for rupture assessment of cracked rubbers: A novel method for determination of critical SED. <i>Engineering Fracture Mechanics</i> , <b>2018</b> , 190, 93-103	4.2	9
266	A Novel Approach for Assessing the Fatigue Behavior of PEEK in a Physiologically Relevant Environment. <i>Materials</i> , <b>2018</b> , 11,	3.5	9

265	Probabilistic S-N curves for CFRP retrofitted steel details. <i>International Journal of Fatigue</i> , <b>2021</b> , 148, 106205	5	9
264	An investigation on fatigue behavior of AA2024 aluminum alloy sheets in fuselage lap joints. <i>Engineering Failure Analysis</i> , <b>2021</b> , 126, 105457	3.2	9
263	Crack closure in friction stir weldment using non-linear model for fatigue crack propagation. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 2596-2608	3	8
262	Cyclic plastic behavior of additively manufactured Ti-6Al-4V under uniaxial and multiaxial non-proportional loading. <i>International Journal of Fatigue</i> , <b>2019</b> , 126, 155-164	5	8
261	Calculation of 3D residual notch stress intensity factors by means of the peak stress method. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2019</b> , 100, 377-382	3.7	8
260	Deformation localization and cracking processes of sandstone containing two flaws of different geometric arrangements. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 1959-1977	3.7	8
259	Numerical study on the dynamic fracture behavior of 3D heterogeneous rocks using General Particle Dynamics. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 96, 90-104	3.7	8
258	A three-dimensional long-term strength criterion of rocks based on micromechanical method. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 97, 409-418	3.7	8
257	Influence of energy dissipation at the interphase boundaries on impact fracture behaviour of a plain carbon steel. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 97, 478-499	3.7	8
256	Effects of grain refinement on the microstructure, mechanical properties and reliability of AlSi7Cu3Mg gravity die cast cylinder heads. <i>Metals and Materials International</i> , <b>2014</b> , 20, 677-686	2.4	8
255	Simple New Expressions for the Notch Stress Intensity Factors in an Array of Narrow V-Notches Under Tension. <i>International Journal of Fracture</i> , <b>2012</b> , 176, 237-244	2.3	8
254	Influence of processing temperature on microstructure and microhardness of copper subjected to high-pressure torsion. <i>Science China Technological Sciences</i> , <b>2010</b> , 53, 1534-1539	3.5	8
253	A novel predictive model for multiaxial fatigue in carburized bevel gears. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 2033-2053	3	8
252	Review of recent advances in local approaches applied to pre-stressed components under fatigue loading. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 3467-3474	1	8
251	What is going on with fatigue of additively manufactured metals?. <i>Material Design and Processing Communications</i> , <b>2019</b> , 1, e84	0.9	8
250	3-Dimensional Printing of Hydrogel-Based Nanocomposites: A Comprehensive Review on the Technology Description, Properties, and Applications. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2100477	3.5	8
249	Fatigue crack nucleation and growth in laser powder bed fusion AlSi10Mg under as built and post-treated conditions. <i>Materials and Design</i> , <b>2021</b> , 210, 110084	8.1	8
248	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. <i>Procedia Manufacturing</i> , <b>2019</b> , 34, 147-153	1.5	7

247	Simulating the dependence of the filler wire feeding on the wire size in the hybrid metal extrusion & bonding (HYB) process. <i>Procedia Structural Integrity</i> , <b>2020</b> , 26, 321-329	1	7
246	Microstructure refinement and grain size distribution in crack initiation region of very-high-cycle fatigue regime for high-strength alloys. <i>International Journal of Fatigue</i> , <b>2020</b> , 134, 105473	5	7
245	Effects of different indentation methods on fatigue life extension of cracked specimens. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2018</b> , 41, 287-299	3	7
244	Tensile Fracture Analysis of Key-Hole Notches by Means of the Strain Energy Density. <i>Strength of Materials</i> , <b>2016</b> , 48, 259-269	0.6	7
243	An experimental method for evaluating mode II stress intensity factor from near crack tip field. <i>International Journal of Fracture</i> , <b>2016</b> , 197, 119-126	2.3	7
242	High-Temperature Behavior of High-Pressure Diecast Alloys Based on the Al-Si-Cu System: The Role Played by Chemical Composition. <i>Metals</i> , <b>2018</b> , 8, 348	2.3	7
241	Improved stress and displacement fields around V-notches with end holes. <i>Engineering Fracture Mechanics</i> , <b>2019</b> , 217, 106539	4.2	7
240	Low-temperature fatigue life properties of aluminum butt weldments by the means of the local strain energy density approach. <i>Material Design and Processing Communications</i> , <b>2019</b> , 1, e30	0.9	7
239	A new analytical expression for the relationship between the Charpy impact energy and notch tip position for functionally graded steels. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2013</b> , 26, 232-240	2.5	7
238	On the use of the Peak Stress Method for the calculation of Residual Notch Stress Intensity Factors: a preliminary investigation. <i>Procedia Structural Integrity</i> , <b>2017</b> , 3, 191-200	1	7
237	Notch Fracture Toughness Evaluation for a Brittle Graphite Material. <i>Materials Performance and Characterization</i> , <b>2014</b> , 3, 20130041	0.5	7
236	Interface microstructure and tensile properties of a third generation aluminium-steel butt weld produced using the Hybrid Metal Extrusion & Bonding (HYB) process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 809, 140975	5.3	7
235	On the application of the volume free strain energy density method to blunt V-notches under mixed mode condition. <i>Engineering Structures</i> , <b>2021</b> , 230, 111716	4.7	7
234	Long solidification time effect on solution strengthened ferritic ductile iron fatigue properties. <i>International Journal of Fatigue</i> , <b>2021</b> , 145, 106137	5	7
233	CNT and rGO reinforced PMMA based bone cement for fixation of load bearing implants: Mechanical property and biological response. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 116, 104320	4.1	7
232	Innovative formulation for topological fatigue optimisation based on material defects distribution and TopFat algorithm. <i>International Journal of Fatigue</i> , <b>2021</b> , 147, 106176	5	7
231	The improvement of crack propagation modelling in triangular 2D structures using the extended finite element method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 397-414	3	7
230	Collection of experimental data for multiaxial fatigue criteria verification. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 162-174	3	7

229	Cracking behaviours of rock-like materials containing three preexisting flaws after high-temperature treatments. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 622-635	3	7
228	Experimental and numerical fretting fatigue using a new test fixture. <i>International Journal of Fatigue</i> , <b>2021</b> , 143, 106011	5	7
227	Ductile fracture locus identification using mesoscale critical equivalent plastic strain. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 1292-1304	3	7
226	Constant/variable amplitude multiaxial notch fatigue of additively manufactured AISI 316L. <i>International Journal of Fatigue</i> , <b>2021</b> , 152, 106412	5	7
225	Fracture investigation of U-notch made of tungstenCopper functionally graded materials by means of strain energy density. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2017</b> , 40, 1984-1993	3	6
224	Eutectic Nucleation in 7xxx Series Aluminum Alloys from a Non-classical Viewpoint. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 4572-4583	2.3	6
223	Finite element modelling of the filler wire feeding in the hybrid metal extrusion & bonding (HYB) process. <i>Journal of Advanced Joining Processes</i> , <b>2020</b> , 1, 100006	2.1	6
222	Critical review of turbulence models for CFD for fatigue analysis in large steel structures. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2018</b> , 41, 762-775	3	6
221	Notch Effect on the Fatigue Behavior of a Hot-Dip Galvanized Structural Steel. <i>Strength of Materials</i> , <b>2015</b> , 47, 719-727	0.6	6
220	An experimental investigation of dual-resonant and non-resonant responses for vortex-induced vibration of a long slender cylinder. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2014</b> , 57, 321-329	3.6	6
219	40CrMoV13.9 notched specimens under multiaxial fatigue: an overview of recent results. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 440-446	0.9	6
218	Notch stress intensity factors under mixed mode loadings: an overview of recent advanced methods for rapid calculation. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 196-204	0.9	6
217	Local strain energy density for the fracture assessment of polyurethane specimens weakened by notches of different shape. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 214-222	0.9	6
216	A Semi-Analytical Model for the Heat Generation during Hybrid Metal Extrusion and Bonding (HYB). <i>Materials</i> , <b>2020</b> , 14,	3.5	6
215	Smoothed peridynamics for the extremely large deformation and cracking problems: Unification of peridynamics and smoothed particle hydrodynamics. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 2444-2461	3	6
214	A Brief Review on Additive Manufacturing of Polymeric Composites and Nanocomposites. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	6
213	A comparison between numerical and approximate methods for rapid calculation of NSIFs. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2019</b> , 101, 67-79	3.7	6
212	Controlled Diffusion Solidification Pathway of an AA 7xxx Series Aluminum Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 326-335	2.3	6

211	On the interaction between corrosion and fatigue which determines the remaining life of bridges. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2018</b> , 41, 314-322	3	6
210	Coalescence of Clean, Coated, and Decoated Aluminum for Various Salts, and Salt/Scrap Ratios. <i>Journal of Sustainable Metallurgy</i> , <b>2018</b> , 4, 343-358	2.7	6
209	Recent advances on akermanite calcium-silicate ceramic for biomedical applications. <i>International Journal of Applied Ceramic Technology</i> , <b>2021</b> , 18, 1901	2	6
208	Notch energy-based low and high cycle fatigue assessment of load-carrying cruciform welded joints considering the strength mismatch. <i>International Journal of Fatigue</i> , <b>2021</b> , 151, 106410	5	6
207	Mode III critical distance determination with optimized V-notched specimen under torsional fatigue and size effects on the inverse search probability distribution. <i>International Journal of Fatigue</i> , <b>2021</b> , 151, 106351	5	6
206	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. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2017</b> , 40, 1838-1853	3	5
205	V-notches subjected to combined tension and torsion loadings: the application of the fictitious notch rounding concept. <i>Engineering Fracture Mechanics</i> , <b>2015</b> , 148, 82-96	4.2	5
204	Fatigue properties of AA6060-T6 butt welds made by hybrid metal extrusion & bonding. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 2349-2358	3	5
203	Internal crack characteristics in very-high-cycle fatigue of a gradient structured titanium alloy. <i>Scientific Reports</i> , <b>2020</b> , 10, 4742	4.9	5
202	Rock Fracture Toughness Under Mode II Loading: A Theoretical Model Based on Local Strain Energy Density. <i>Rock Mechanics and Rock Engineering</i> , <b>2018</b> , 51, 243-253	5.7	5
201	Study of the influence of notch radii and temperature on the probability of failure: A methodology to perform a combined assessment. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 2663-2673	3	5
200	Fracture investigation of V-notch made of tungsten-copper functionally graded materials. <i>Physical Mesomechanics</i> , <b>2017</b> , 20, 457-464	1.6	5
199	Local Strain Energy Density Applied to Bainitic Functionally Graded Steels Plates Under Mixed-Mode (I + II) Loading. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2015</b> , 28, 164-172	2.5	5
198	Local strain energy approach applied to fatigue analysis of welded rectangular hollow section joints. <i>International Journal of Materials and Product Technology</i> , <b>2007</b> , 30, 124	1	5
197	Machine learning based very-high-cycle fatigue life prediction of Ti-6Al-4V alloy fabricated by selective laser melting. <i>International Journal of Fatigue</i> , <b>2022</b> , 158, 106764	5	5
196	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. <i>Journal of Testing and Evaluation</i> , <b>2017</b> , 45, 20140496	1	5
195	Averaged strain energy density-based synthesis of crack initiation life in notched steel bars under torsional fatigue. <i>Frattura Ed Integrita Strutturale</i> , <b>2016</b> , 10, 215-223	0.9	5
194	Mode II brittle fracture: recent developments. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 181-188	0.9	5



193	High temperature fatigue of heat treated secondary AlSi7Cu3Mg alloys. <i>International Journal of Fatigue</i> , <b>2020</b> , 138, 105685	5	5
192	A First Approach on Modelling the Thermal and Microstructure Fields During Aluminium Butt Welding Using the HYB PinPoint Extruder. <i>Procedia Structural Integrity</i> , <b>2020</b> , 28, 2253-2260	1	5
191	Crack initiation and propagation from geometric microdefects: Experiment and transition fatigue behavior. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 2323-2336	3	5
190	Combined effects of recycled crumb rubber and silica fume on mechanical properties and mode I fracture toughness of self-compacting concrete. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 2659-2673	3	5
189	Effect of Solidification Time on Microstructural, Mechanical and Fatigue Properties of Solution Strengthened Ferritic Ductile Iron. <i>Metals</i> , <b>2019</b> , 9, 24	2.3	5
188	Quasi-static compression and compression-compression fatigue behavior of regular and irregular cellular biomaterials. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 1178-1194	3	5
187	Finite Element Analysis of Thermoelastic Fiber-Reinforced Anisotropic Hollow Cylinder with Dual-Phase-Lag Model. <i>Strength of Materials</i> , <b>2018</b> , 50, 396-405	0.6	5
186	Crack initiation mechanisms under two stress ratios up to very-high-cycle fatigue regime for a selective laser melted Ti-6Al-4V. <i>International Journal of Fatigue</i> , <b>2021</b> , 149, 106294	5	5
185	Design of Wear-Resistant Diecast AlSi9Cu3(Fe) Alloys for High-Temperature Components. <i>Metals</i> , <b>2020</b> , 10, 55	2.3	4
184	Preparation of poly( $\epsilon$ -caprolactone)-hydroxyapatite composite coating for improvement of corrosion performance of biodegradable magnesium. <i>Material Design and Processing Communications</i> , <b>2020</b> , 2, e170	0.9	4
183	Mechanical and fracture properties of aluminium cylinders manufactured by orbital friction stir welding. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 1514-1528	3	4
182	Continuous smoothed particle hydrodynamics for cracked nonconvex bodies by diffraction criterion. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2020</b> , 108, 102584	3.7	4
181	Multiaxial Fatigue Crack Orientation and Early Growth Investigation Considering the Nonproportional Loading. <i>Physical Mesomechanics</i> , <b>2018</b> , 21, 358-370	1.6	4
180	Some methods for rapid evaluation of the mixed mode NSIFs. <i>Procedia Structural Integrity</i> , <b>2017</b> , 3, 126-134		4
179	Effect of Temperature-Force Factors and Concentrator Shape on Impact Fracture Mechanisms of 17Mn1Si Steel. <i>Advances in Materials Science and Engineering</i> , <b>2017</b> , 2017, 1-12	1.5	4
178	Optimization of a Permanent Step Mold Design for Mg Alloy Castings. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2015</b> , 46, 473-484	2.5	4
177	Notched graphite under multiaxial loading. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 424-431	0.9	4
176	Fatigue life assessment for a welded detail: advantages of a local energetic approach and experimental validation. <i>Frattura Ed Integrita Strutturale</i> , <b>2018</b> , 12, 121-134	0.9	4



175	Load sequence effects and cyclic deformation behaviour of 7075-T651 aluminium alloy. <i>International Journal of Fatigue</i> , <b>2022</b> , 155, 106593	5	4
174	Validation of the Averaged Strain Energy Density Criterion for Additively Manufactured Notched Polylactide Acid Specimens. <i>Procedia Structural Integrity</i> , <b>2020</b> , 28, 2099-2103	1	4
173	Adhesively bonded joint brittle fracture assessment via average strain energy density criterion. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 2907-2914	3	4
172	NSIFs estimation based on the averaged strain energy density under in-plane mixed mode loading. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 1829-1836	1	4
171	Strain Energy Density Based Assessment of Cracked Terfenol-D Specimens Under Magnetic Field and Different Loading Rates. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 1837-1844	1	4
170	Mixed mode fracture behavior of notched giant magnetostrictive: Mechanical characterization and comparison among failure criteria. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2019</b> , 99, 194-204	3.7	4
169	Microstructural and mechanical characterisation of a second generation hybrid metal extrusion & bonding aluminium-steel butt joint. <i>Materials Characterization</i> , <b>2021</b> , 173, 110761	3.9	4
168	Fatigue investigation of complex weldments by the means of the local strain energy density approach. <i>MATEC Web of Conferences</i> , <b>2018</b> , 165, 22003	0.3	4
167	Fatigue performance prediction of Al-alloy 2024 plates in riveted joint structure. <i>Engineering Failure Analysis</i> , <b>2021</b> , 126, 105439	3.2	4
166	Does metallurgy affect the residual notch stress intensity factor value induced by welding operations? A comprehensive study via a 3D numerical model. <i>International Journal of Fatigue</i> , <b>2021</b> , 149, 106261	5	4
165	A Review on Antibacterial Biomaterials in Biomedical Applications: From Materials Perspective to Bioinks Design. <i>Polymers</i> , <b>2022</b> , 14, 2238	4.5	4
164	Numerical simulation of supershear ruptures in rock mass based on general particle dynamics. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 905-918	3	3
163	3D effects on Fracture Mechanics: corner point singularities. <i>Procedia Structural Integrity</i> , <b>2020</b> , 26, 336-347		3
162	Fatigue behaviour of pitted/cracked high-strength steel wires based on the SED approach. <i>International Journal of Fatigue</i> , <b>2020</b> , 135, 105564	5	3
161	Interaction of Ca, P trace elements and Sr modification in AlSi5Cu1Mg alloys. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 133, 123-133	4.1	3
160	Core-shell nanofibers for developing self-healing materials: Recent progress and future directions. <i>Material Design and Processing Communications</i> , <b>2019</b> , e90	0.9	3
159	Experimental and numerical investigations of fracture behavior of magnetostrictive materials. <i>Procedia Structural Integrity</i> , <b>2017</b> , 3, 153-161	1	3
158	Effects of transitional functions on multiscale fatigue crack growth. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2017</b> , 91, 134-138	3.7	3

157	Some recent criteria for brittle fracture prediction under in-plane shear loading. <i>Procedia Structural Integrity</i> , <b>2017</b> , 3, 110-118	1	3
156	Effect of Structural Heterogeneity of 17Mn1Si Steel on the Temperature Dependence of Impact Deformation and Fracture. <i>Metals</i> , <b>2017</b> , 7, 280	2.3	3
155	Micromechanics modeling of strength for nanocrystalline copper. <i>Archive of Applied Mechanics</i> , <b>2008</b> , 78, 465-476	2.2	3
154	The Effect of Co-Encapsulated GO-Cu Nanofillers on Mechanical Properties, Cell Response, and Antibacterial Activities of Mg-Zn Composite. <i>Metals</i> , <b>2022</b> , 12, 207	2.3	3
153	A state-of-the-art review on creep damage mechanics of rocks. <i>Fatigue and Fracture of Engineering Materials and Structures</i> ,	3	3
152	Crack initiation life in notched Ti-6Al-4V titanium bars under uniaxial and multiaxial fatigue: synthesis based on the averaged strain energy density approach. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 8-15	0.9	3
151	Multiaxial fatigue strength of titanium alloys. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 79-89	0.9	3
150	Local strain energy density for the fatigue assessment of hot dip galvanized welded joints: some recent outcomes. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 205-213	0.9	3
149	Efficient implementation of critical plane for 3D stress histories using triangular elements. <i>International Journal of Fatigue</i> , <b>2020</b> , 134, 105448	5	3
148	Crack resistance behaviour of aluminium alloy for aircraft skin with bionic coupling units processed by laser cladding. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 2756-2760	3	3
147	Failure characteristics of coarse and fine sandstone containing two parallel fissures subjected to true triaxial stresses. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2021</b> , 112, 102932	3.7	3
146	Acoustic Emission Assessment of Impending Fracture in a Cyclically Loading Structural Steel. <i>Metals</i> , <b>2016</b> , 6, 266	2.3	3
145	Mixed mode I/II/III fracture assessment of PMMA using a new test fixture. <i>MATEC Web of Conferences</i> , <b>2019</b> , 300, 11003	0.3	3
144	Study of fluxing in Al refining process by rotary and crucible furnaces. <i>International Journal of Sustainable Engineering</i> , <b>2019</b> , 12, 38-46	3.1	3
143	Poly(methyl methacrylate) bone cement, its rise, growth, downfall and future. <i>Polymer International</i> , <b>2021</b> , 70, 1182-1201	3.3	3
142	Strain localization and cracking behavior of sandstone with two gypsum-infilled parallel flaws. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2021</b> , 112, 102873	3.7	3
141	Additive Manufacturing of Polymer Matrix Composites <b>2021</b> , 1013-1028		3
140	Fire Behavior of 3D-Printed Polymeric Composites. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 4745-4755	1.6	3

139	Study of Composite Fiber Reinforcement of Cracked Thin-Walled Pressure Vessels Utilizing Multi-Scaling Technique Based on Extended Finite Element Method. <i>Strength of Materials</i> , <b>2018</b> , 50, 925-936	0.6	3
138	Cruciform welded joints: hot-dip galvanization effect on the fatigue life and local energetic analysis.. <i>Procedia Structural Integrity</i> , <b>2018</b> , 13, 340-346	1	3
137	Effect of Heat Treatment on Microstructure and Creep Behavior of Fe-40Ni-24Cr Alloy. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7951	2.6	3
136	Very high cycle fatigue (VHCF) response of additively manufactured materials: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 2919	3	3
135	Antimicrobial synthetic and natural polymeric nanofibers as wound dressing: A review. <i>Advanced Engineering Materials</i> ,	3.5	3
134	On the efficiency of machine learning for fatigue assessment of post-processed additively manufactured AlSi10Mg. <i>International Journal of Fatigue</i> , <b>2022</b> , 160, 106841	5	3
133	Nonlinear fatigue crack propagation in a baffle module of Wendelstein 7-X under cyclic bending loads. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 1711-1721	3	2
132	On the Effect of Slight Variations of Si, Mn, and Ti on Inclusions Properties, Microstructure, and Mechanical Properties of YS460 C-Mn Steel Welds. <i>Metallography, Microstructure, and Analysis</i> , <b>2019</b> , 8, 292-306	1.1	2
131	3D effects on Fracture Mechanics. <i>Procedia Structural Integrity</i> , <b>2020</b> , 25, 268-281	1	2
130	Fracture Loads Prediction on Notched Short Glass Fibre Reinforced Polyamide 6 Using the Strain Energy Density. <i>Physical Mesomechanics</i> , <b>2018</b> , 21, 165-172	1.6	2
129	Evolution of Crack Tip Constraint in a Mode II Elastic-Plastic Crack Problem. <i>Physical Mesomechanics</i> , <b>2018</b> , 21, 173-177	1.6	2
128	Fractional Order Thermoelastic Wave Assessment in a Nanoscale Beam Using the Eigenvalue Technique. <i>Strength of Materials</i> , <b>2019</b> , 51, 427-438	0.6	2
127	Rapid extrapolation of high-temperature low-cycle fatigue curves for a nickel superalloy. <i>Material Design and Processing Communications</i> , <b>2019</b> , 1, e104	0.9	2
126	On three-dimensional stress analysis of periodic notched plates under tension. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2014</b> , 57, 1751-1757	3.6	2
125	Dynamic shell buckling behavior of multi-walled carbon nanotubes embedded in an elastic medium. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2013</b> , 56, 483-490	3.6	2
124	Fatigue behavior of innovative alloys at elevated temperature. <i>Procedia Structural Integrity</i> , <b>2017</b> , 3, 162-167	1	2
123	Three-dimensional cracked discs under anti-plane loading and effects of the boundary conditions. <i>International Journal of Structural Integrity</i> , <b>2015</b> , 6, 541-564	1	2
122	Crack Initiation at V-Notch Tip under In-Plane Mixed Mode Loading: A Review of the Fictitious Notch Rounding Concept. <i>Physical Mesomechanics</i> , <b>2015</b> , 18, 273-282	1.6	2

121	A Brief Review of Some Local Approaches for the Failure Assessment of Brittle and Quasi-Brittle Materials. <i>Advances in Materials Science and Engineering</i> , <b>2014</b> , 2014, 1-10	1.5	2
120	Fracture Assessment of U-notches under Mode I Loading by means of Critical Value of the J-integral. <i>Procedia Engineering</i> , <b>2011</b> , 10, 807-812		2
119	Experiments and analyses on tensile behaviour of a TiAl alloy with lamellar structure. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 4937-4943	4.3	2
118	Anodizing AlSi Foundry Alloys: A Critical Review. <i>Advanced Engineering Materials</i> , 2101480	3.5	2
117	Evaluation and Origin of Residual Stress in Hybrid Metal and Extrusion Bonding and Comparison with Friction Stir Welding. <i>International Journal of Mechanical Sciences</i> , <b>2022</b> , 218, 107089	5.5	2
116	Numerical analysis and discussion on the hot-spot stress concept applied to welded tubular KT joints. <i>Engineering Failure Analysis</i> , <b>2022</b> , 135, 106092	3.2	2
115	Experimental Study of the Mechanism of TBM Disk Cutter Penetration in Mixed-Faced Grounds under Confining Pressure. <i>Journal of Testing and Evaluation</i> , <b>2020</b> , 48, 20190563	1	2
114	Statistical models for estimating the fatigue life, the stress-life relation, and the P-S-N curves of metallic materials in Very High Cycle Fatigue: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> ,	3	2
113	Higher order stress terms in sharp notch problems under pure-out-of-plane loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2022</b> , 45, 500	3	2
112	Role of Metal 3D Printing to Increase Quality and Resource-efficiency in the Construction Sector. <i>Additive Manufacturing</i> , <b>2021</b> , 50, 102541	6.1	2
111	Crack initiation and propagation paths in small diameter FSW 6082-T6 aluminium tubes under fatigue loading. <i>Frattura Ed Integrita Strutturale</i> , <b>2016</b> , 10, 119-129	0.9	2
110	Creep behavior of V-notched components. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 456-463	0.9	2
109	Frontiers of fracture and fatigue: Some recent applications of the local strain energy density. <i>Frattura Ed Integrita Strutturale</i> , <b>2018</b> , 12, 1-32	0.9	2
108	Creep damage behaviors of red sandstone subjected to uniaxial compression after high-temperature heat treatment using acoustic emission technology. <i>Fatigue and Fracture of Engineering Materials and Structures</i> ,	3	2
107	Electrospun biomimetic polymer nanofibers as vascular grafts. <i>Material Design and Processing Communications</i> , <b>2020</b> , e203	0.9	2
106	Sustainable nanofibers in tissue engineering and biomedical applications. <i>Material Design and Processing Communications</i> , <b>2020</b> , e202	0.9	2
105	Multiaxial fatigue life assessment in notched components based on the effective strain energy density. <i>Procedia Structural Integrity</i> , <b>2020</b> , 28, 1808-1815	1	2
104	An investigation of the anisotropic properties of heat-treated maraging steel grade 300 processed by laser powder bed fusion. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 114, 1359-1372	2	2

103	The Effect of Hydrophilic and Hydrophobic Nanofillers on Moisture Uptake and Mechanical Properties Degradation of Nanocomposites under Hot and Wet Conditions. <i>Physical Mesomechanics</i> , <b>2021</b> , 24, 335-342	1.6	2
102	Fatigue fracture assessment of 10CrNi3MoV welded load-carrying cruciform joints considering mismatch effect. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 1739	3	2
101	Synthesis and Characterization of Hot Extruded Magnesium-Zinc Nano-Composites Containing Low Content of Graphene Oxide for Implant Applications. <i>Physical Mesomechanics</i> , <b>2021</b> , 24, 486-502	1.6	2
100	Fatigue failures from defects in additive manufactured components: A statistical methodology for the analysis of the experimental results. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 1944	3	2
99	Influence of Cu content on the microstructure and high-temperature tensile and fatigue properties of secondary AlSi7Mg0.3VZr alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 816, 141310	5.3	2
98	Effect of the Loading Rate on the Brittle Fracture of Terfenol-D Specimens in Magnetic Field: Strain Energy Density Approach. <i>Strength of Materials</i> , <b>2016</b> , 48, 791-800	0.6	2
97	Robustness-oriented topology optimization for steel tubular joints mimicking bamboo structures. <i>Material Design and Processing Communications</i> , <b>2019</b> , 1, e43	0.9	2
96	Improving mechanical properties of wire-based EBAM Ti-6Al-4V parts by adding TiC powders. <i>Material Design and Processing Communications</i> , <b>2021</b> , 3, e136	0.9	2
95	The Effect of Graphene-Oxide Nanoplatelets on the High-Velocity Impact Response of Glass Laminate Aluminum Reinforced Epoxy. <i>Physical Mesomechanics</i> , <b>2021</b> , 24, 65-76	1.6	2
94	Experimental and numerical investigations of oxide-related defects in Al alloy gravity die castings. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 117, 1765	3.2	2
93	Multiaxial low cycle fatigue of notched 10CrNi3MoV steel and its undermatched welds. <i>International Journal of Fatigue</i> , <b>2021</b> , 150, 106309	5	2
92	Notch fatigue analysis and crack initiation life estimation of maraging steel fabricated by laser beam powder bed fusion under multiaxial loading. <i>International Journal of Fatigue</i> , <b>2021</b> , 153, 106468	5	2
91	Fatigue assessment of steel rollers using an energy based criterion. <i>Procedia Structural Integrity</i> , <b>2017</b> , 3, 93-101	1	1
90	. <i>Strength of Materials</i> , <b>2017</b> , 49, 738-738	0.6	1
89	Mixed numerical-experimental method for generation of energy-life fatigue master curves. <i>Material Design and Processing Communications</i> , <b>2019</b> , 1, e37	0.9	1
88	Supershear Rupture Under Hydrostatic Pressure Condition. <i>Strength of Materials</i> , <b>2020</b> , 52, 497-506	0.6	1
87	Fatigue behaviour of a multiphase medium carbon steel: Comparison between ferrite/pearlite and tempered microstructures. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 2542-2549	2.3	1
86	Relationship between ( $\{J\}_{c}$ ) and the dissipation energy in the adhesive layer of a layered composite. <i>International Journal of Fracture</i> , <b>2020</b> , 224, 277-284	2.3	1

85	Non-linear fatigue propagation of multiple cracks in an aluminium metal matrix composite (AlMMC) with silicon-carbide fibre reinforcement. <i>Material Design and Processing Communications</i> , <b>2020</b> , 2, e119	0.9	1
84	Thermal load-induced notch stress intensity factors derived from averaged strain energy density. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 2367-2374	1	1
83	Numerical Evaluation of T-stress under Mixed Mode Loading Through the Use of Coarse Meshes. <i>Physical Mesomechanics</i> , <b>2018</b> , 21, 124-134	1.6	1
82	Acoustic emission study on the effect of notch shape and temperature on elastic energy release during impact testing of 17Mn1Si pipe steel. <i>Engineering Fracture Mechanics</i> , <b>2019</b> , 210, 288-299	4.2	1
81	Effects of Geometrical Parameters on the Stress Field of Three-Dimensional Plates Weakened by Periodic Notches. <i>Strength of Materials</i> , <b>2014</b> , 46, 391-403	0.6	1
80	A review of the notch rounding approach under in plane mixed mode loading. <i>International Journal of Fatigue</i> , <b>2017</b> , 101, 127-136	5	1
79	Singularity Characteristics for a Lip-Shaped Crack Subjected to Remote Biaxial Loading. <i>International Journal of Fracture</i> , <b>1999</b> , 96, 203-214	2.3	1
78	Fatigue crack growth of a railway wheel steel and fatigue life prediction under spectrum loading conditions. <i>International Journal of Fatigue</i> , <b>2022</b> , 157, 106722	5	1
77	Inverse determination and probability distribution of the mode III Strain Energy Density control radius with an optimized V-notched specimen under torsional fatigue loading. <i>International Journal of Fatigue</i> , <b>2022</b> , 159, 106787	5	1
76	Geometry effects on mode I brittle fracture in U-notched specimens. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 901-915	3	1
75	Analytical Thermal Stress Analysis of Perforated Symmetric Composite Laminates Containing a Quasi-Triangular Hole. <i>Physical Mesomechanics</i> , <b>2020</b> , 23, 514-530	1.6	1
74	Strength mismatch effect on residual stress of 10CrNi3MoV steel considering the back-chipping process. <i>International Journal of Pressure Vessels and Piping</i> , <b>2022</b> , 195, 104570	2.4	1
73	Fracture assessment of U-notched PMMA under mixed mode I/II loading conditions by means of local approaches.. <i>Procedia Structural Integrity</i> , <b>2021</b> , 33, 482-490	1	1
72	Predicting fatigue life of metal LPBF components by combining a large fatigue database for different sample conditions with novel simulation strategies. <i>Additive Manufacturing</i> , <b>2022</b> , 50, 102570	6.1	1
71	The fatigue behavior of V-notches in presence of residual stresses: recent developments and future outcomes. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 189-195	0.9	1
70	Fracture assessment of magnetostrictive materials. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 223-230	0.9	1
69	About the influence of the elastoplastic properties of the adhesive on the value of the $\int \sigma \epsilon$ -integral in the DCB sample. <i>International Journal of Fracture</i> , <b>2021</b> , 232, 43	2.3	1
68	Investigation of creep damage mechanical behaviors of red sandstone considering temperature effect. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2022</b> , 45, 411	3	1



67	On the fatigue properties of a third generation aluminium-steel butt weld made by Hybrid Metal Extrusion & Bonding (HYB). <i>International Journal of Fatigue</i> , <b>2022</b> , 155, 106586	5	1
66	Subsea power cable sheathing: an investigation of lead fatigue performance. <i>Procedia Structural Integrity</i> , <b>2020</b> , 28, 344-351	1	1
65	A novel semi-analytical method for notch stress and fatigue strength analysis of tube-flange welded joints. <i>International Journal of Fatigue</i> , <b>2020</b> , 141, 105860	5	1
64	Crack bifurcation in sharp V-notches. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2020</b> , 110, 102790	3.7	1
63	Modelling shear loading of a cantilever with a crack-like defect explicitly including linear parameters. <i>International Journal of Solids and Structures</i> , <b>2020</b> , 193-194, 447-454	3.1	1
62	Resource-efficient joint fabrication by welding metal 3D-printed parts to conventional steel: A structural integrity study. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 1271-1291	2.9	1
61	Relationship between the microstructure and the heat treatment and creep behavior of Fe <sub>3</sub> Ni <sub>19</sub> Cr alloy. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 1719	3	1
60	Compressive-shear fracture model of the phase-field method coupled with a modified Hoek-Brown criterion. <i>International Journal of Fracture</i> , <b>2021</b> , 229, 161	2.3	1
59	On the effect of the node and building orientation on the fatigue behavior of L-PBF Ti6Al4V lattice structure sub-unital elements. <i>Material Design and Processing Communications</i> , <b>2021</b> , 3, e258	0.9	1
58	Brittle or Quasi-Brittle Fracture of Engineering Materials 2016. <i>Advances in Materials Science and Engineering</i> , <b>2016</b> , 2016, 1-2	1.5	1
57	Inclined Hole Under Different Loading Conditions: A Review of Recent Results. <i>Strength of Materials</i> , <b>2016</b> , 48, 668-676	0.6	1
56	Mode II loading in sharp V-notched components: a comparison among some recent criteria for brittle fracture assessment. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 1845-1852	1	1
55	Synthesis of crack initiation life in steel notched specimens under torsional fatigue based on the averaged strain energy density. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 1853-1860	1	1
54	Fatigue Behavior of Inorganic-Organic Hybrid "Lunar Cement". <i>Scientific Reports</i> , <b>2019</b> , 9, 2238	4.9	1
53	Fatigueless structures inspired by nature: A case study. <i>Material Design and Processing Communications</i> , <b>2019</b> , 1, e27	0.9	1
52	Mechanical property, antibacterial activity and cytocompatibility of a PMMA-based bone cement loaded with clindamycin for orthopaedic surgeries. <i>Materials Technology</i> , <b>2021</b> , 36, 564-573	2.1	1
51	Fatigue strength assessment of heavy section ductile irons through the average strain density energy criterion. <i>Material Design and Processing Communications</i> , <b>2021</b> , 3, e197	0.9	1
50	Strain Energy Density-Predicted Brittle Fracture of U-Notched Components under Combined Tension/Tear Loading. <i>Strength of Materials</i> , <b>2021</b> , 53, 1-10	0.6	1

49	Computational Advantages of the Local Strain Energy Density for Fracture and Fatigue Design. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 416, 012060	0.4	1
48	Static and fatigue behavior of injection molded short-fiber reinforced PPS composites: Fiber content and high temperature effects. <i>Engineering Failure Analysis</i> , <b>2021</b> , 126, 105429	3.2	1
47	Prediction of multiaxial fatigue life of notched maraging steel components manufactured by selective laser melting. <i>Procedia Structural Integrity</i> , <b>2022</b> , 39, 273-280	1	1
46	Defect-Driven Topology Optimisation: TopFat algorithm validation via 3D components re-design for real industrial applications. <i>Procedia Structural Integrity</i> , <b>2022</b> , 39, 81-88	1	1
45	On the role of building orientation and surface post-processes on the fatigue life of Ti-6Al-4V coupons manufactured by laser powder bed fusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 840, 142747	5.3	1
44	Experimental study on the progressive failure of double-flawed granite samples subjected to impact loads. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2022</b> , 45, 653-670	3	1
43	Applicability of strain energy density criterion for fracture prediction of notched PLA specimens produced via fused deposition modeling. <i>Engineering Fracture Mechanics</i> , <b>2021</b> , 258, 108103	4.2	1
42	Use of Low Melting Point Metals and Alloys ( $T_m < 420 \text{ }^\circ\text{C}$ ) as Phase Change Materials: A Review. <i>Metals</i> , <b>2022</b> , 12, 945	2.3	1
41	Stress corrosion cracking behavior of zirconia ALD-coated AZ31 alloy in simulated body fluid. <i>Material Design and Processing Communications</i> , <b>2020</b> , 2, e126	0.9	0
40	Dual Synergistic Effects of MgO-GO Fillers on Degradation Behavior, Biocompatibility and Antibacterial Activities of Chitosan Coated Mg Alloy. <i>Coatings</i> , <b>2022</b> , 12, 63	2.9	0
39	Effects and optimization of biomimetic laser shock peening on residual fatigue life improvement of aluminum alloy used in aircraft skin. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2021</b> , 103155	3.7	0
38	Effect of stress ratios on corrosion fatigue life of high-strength steel wires. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2022</b> , 45, 593	3	0
37	Experimental characterization and theoretical prediction of quasi-static fracture behavior of notched ZK60-T5 Mg samples. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 1484-1497	3	0
36	Fracture analysis of rock reconstruction models based on cooling-solidification annealing algorithms. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 2503-2523	3	0
35	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. <i>Strength of Materials</i> , <b>2019</b> , 51, 770-785	0.6	0
34	Modelling and Optimizing Structural Behavior of Advanced Materials for Aerospace. <i>International Journal of Aerospace Engineering</i> , <b>2018</b> , 2018, 1-2	0.9	0
33	Synthesis, Corrosion, and Bioactivity Evaluation of the Hybrid Anodized Polycaprolactone Fumarate/Silicon- and Magnesium-Codoped Fluorapatite Nanocomposite Coating on AZ31 Magnesium Alloy. <i>Physical Mesomechanics</i> , <b>2022</b> , 25, 85-96	1.6	0
32	Misalignment effect on the fatigue failure behavior of load-carrying cruciform welded joints. <i>International Journal of Fatigue</i> , <b>2022</b> , 160, 106847	5	0

31	Design against fatigue failures: lower bound P-S-N curves estimation and influence of runout data. <i>International Journal of Fatigue</i> , <b>2022</b> , 106934	5	0
30	Optimization of fatigue life of pearlitic Grade 900A steel based on the combination of genetic algorithm and artificial neural network. <i>International Journal of Fatigue</i> , <b>2022</b> , 162, 106975	5	0
29	Notch fatigue analysis and life assessment using an energy field intensity approach in 7050-T6 aluminium alloy under bending-torsion loading. <i>International Journal of Fatigue</i> , <b>2022</b> , 162, 106947	5	0
28	Mesh Size Effects on Fracture Locus of High Strength Bolts: A Mesoscale Critical Equivalent Plastic Strain (MCEPS) Approach. <i>Engineering Failure Analysis</i> , <b>2022</b> , 106385	3.2	0
27	Quantifying lamellar microstructural effect on the fatigue performance of bimodal Ti-6Al-4V with microdefect. <i>International Journal of Fatigue</i> , <b>2022</b> , 107045	5	0
26	Special issue engineering against failure. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 1429-1429	3	
25	Study on the Size Dependence of Calibration Parameters of the New Local Approach Model for Cleavage Fracture. <i>Physical Mesomechanics</i> , <b>2020</b> , 23, 324-331	1.6	
24	Coupled fracture mode of a cracked disc under anti-plane loading. <i>MATEC Web of Conferences</i> , <b>2014</b> , 12, 04014	0.3	
23	Polymethylmethacrylate Data from U-Notched Specimens and V-Notches with End Holes: A Synthesis by Means of Local Energy. <i>Key Engineering Materials</i> , <b>2014</b> , 627, 73-76	0.4	
22	Recent Developments in Brittle and Quasi-Brittle Failure Assessment of Graphite by Means of SED. <i>Key Engineering Materials</i> , <b>2013</b> , 577-578, 25-28	0.4	
21	Fatigue damage assessment in AM polymers evaluating their energy release. <i>Procedia Structural Integrity</i> , <b>2021</b> , 34, 211-220	1	
20	Preliminary in-situ study of FIB-assisted method for aluminium solid-state welding at the microscale. <i>Procedia Structural Integrity</i> , <b>2021</b> , 33, 887-895	1	
19	TopFat methodology implemented in a commercial software: benchmarking validation. <i>Procedia Structural Integrity</i> , <b>2021</b> , 34, 221-228	1	
18	Defect-Driven Topology Optimisation: TopFat algorithm extended to commercial software for wide-ranging applications. <i>Procedia Structural Integrity</i> , <b>2021</b> , 33, 1095-1102	1	
17	High Temperature Fatigue Behaviour of Secondary AlSi7Cu3Mg Alloys. <i>Structural Integrity</i> , <b>2019</b> , 49-55	0.2	
16	Fatigue Assessment of 17-4 PH Stainless Steel Notched Specimens Made by Direct Metal Laser Sintering <b>2020</b> , 415-422		
15	Strain energy density evaluation with free coarse mesh model. <i>Material Design and Processing Communications</i> , <b>2020</b> , 2, e116	0.9	
14	Qualification of the hybrid metal extrusion & bonding (HYB) process for welding of aluminium offshore structures. <i>Material Design and Processing Communications</i> , <b>2020</b> , 3, e194	0.9	

13	Transient simulation of failures during start-up and power cut of a solid oxide fuel cell system using multiphysics modeling. <i>Material Design and Processing Communications</i> , <b>2020</b> , e177	0.9
12	Modelling and fatigue assessment of steel rollers with failure occurring at the weld root based on the local strain energy. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 3475-3482	1
11	Fracture analysis of V-notched rubbers: An experimental and theoretical study. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2019</b> , 42, 732-742	3
10	Mechanical testing of gas metal arc AA6082-T6 weldments. <i>Material Design and Processing Communications</i> , <b>2021</b> , 3, e160	0.9
9	Fretting in medium-speed reciprocating engines. Comments on practices and opportunities. <i>Material Design and Processing Communications</i> , <b>2021</b> , 3, e201	0.9
8	Poly(methyl methacrylate)-Based Composite Bone Cements With Different Types of Reinforcement Agents <b>2021</b> , 867-886	
7	Local strain energy based fatigue assessment of cruciform welded joints: experimental data analysis and influence of hot-dip galvanization. <i>MATEC Web of Conferences</i> , <b>2018</b> , 188, 02013	0.3
6	Effect of geometrical irregularities on fatigue of lead sheathing for submarine high voltage power cable applications. <i>International Journal of Fatigue</i> , <b>2021</b> , 151, 106399	5
5	Metallurgical Characterization of Co-Cr-Mo Parts Processed by a Hybrid Manufacturing Technology. <i>Physical Mesomechanics</i> , <b>2022</b> , 25, 155-167	1.6
4	Microstructural Observations of an AA6082-T6 Hybrid Metal Extrusion & Bonding (HYB) Butt Weld. <i>Materials Today Communications</i> , <b>2022</b> , 103489	2.5
3	Analytical prediction of the fatigue limit for axisymmetric round bars with rough surface morphology. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2022</b> , 45, 739-753	3
2	Strain energy density approach as fatigue assessment of Ti6Al4V specimens machined by WEDM single step technology. <i>International Journal of Fatigue</i> , <b>2022</b> , 161, 106915	5
1	Multiaxial Fatigue Behaviour of SLM 18Ni300 Steel. <i>Structural Integrity</i> , <b>2022</b> , 161-168	0.2