

# Filippo Berto

## List of Publications by Year in descending order

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648  
papers

25,414  
citations

8181

76  
h-index

14759

127  
g-index

656  
all docs

656  
docs citations

656  
times ranked

13280  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospun nanofibers: solving global issues. <i>Materials Today</i> , 2006, 9, 40-50.	14.2	1,198
2	Material issues in additive manufacturing: A review. <i>Journal of Manufacturing Processes</i> , 2017, 25, 185-200.	5.9	632
3	Recent development of polymer nanofibers for biomedical and biotechnological applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 933-946.	3.6	561
4	Recent developments in brittle and quasi-brittle failure assessment of engineering materials by means of local approaches. <i>Materials Science and Engineering Reports</i> , 2014, 75, 1-48.	31.8	430
5	A review of the volume-based strain energy density approach applied to V-notches and welded structures. <i>Theoretical and Applied Fracture Mechanics</i> , 2009, 52, 183-194.	4.7	412
6	Mechanical design and multifunctional applications of chiral mechanical metamaterials: A review. <i>Materials and Design</i> , 2019, 180, 107950.	7.0	379
7	Electrospun Nanofiber Fabrication as Synthetic Extracellular Matrix and Its Potential for Vascular Tissue Engineering. <i>Tissue Engineering</i> , 2004, 10, 1160-1168.	4.6	367
8	Fabrication and Endothelialization of Collagen-Blended Biodegradable Polymer Nanofibers: Potential Vascular Graft for Blood Vessel Tissue Engineering. <i>Tissue Engineering</i> , 2005, 11, 1574-1588.	4.6	338
9	Architected cellular materials: A review on their mechanical properties towards fatigue-tolerant design and fabrication. <i>Materials Science and Engineering Reports</i> , 2021, 144, 100606.	31.8	316
10	Some Expressions for the Strain Energy in a Finite Volume Surrounding the Root of Blunt V-notches. <i>International Journal of Fracture</i> , 2005, 135, 161-185.	2.2	307
11	Structure and properties of electrospun PLLA single nanofibres. <i>Nanotechnology</i> , 2005, 16, 208-213.	2.6	273
12	The theory of critical distances: a review of its applications in fatigue. <i>Engineering Fracture Mechanics</i> , 2008, 75, 1706-1724.	4.3	265
13	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> , 2010, 32, 1559-1567.	5.7	262
14	Improving the fatigue performance of porous metallic biomaterials produced by Selective Laser Melting. <i>Acta Biomaterialia</i> , 2017, 47, 193-202.	8.3	233
15	Tissue engineered plant extracts as nanofibrous wound dressing. <i>Biomaterials</i> , 2013, 34, 724-734.	11.4	216
16	Antioxidant, Antimicrobial and Antiviral Properties of Herbal Materials. <i>Antioxidants</i> , 2020, 9, 1309.	5.1	199
17	The formation mechanism of characteristic region at crack initiation for very-high-cycle fatigue of high-strength steels. <i>International Journal of Fatigue</i> , 2016, 89, 108-118.	5.7	194
18	Propensities of crack interior initiation and early growth for very-high-cycle fatigue of high strength steels. <i>International Journal of Fatigue</i> , 2014, 58, 144-151.	5.7	186

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19	Local strain energy to assess the static failure of U-notches in plates under mixed mode loading. International Journal of Fracture, 2007, 145, 29-45.	2.2	176
20	Fatigue behaviour of FDM-3D printed polymers, polymeric composites and architected cellular materials. International Journal of Fatigue, 2021, 143, 106007.	5.7	176
21	Some advantages derived from the use of the strain energy density over a control volume in fatigue strength assessments of welded joints. International Journal of Fatigue, 2008, 30, 1345-1357.	5.7	174
22	Local strain energy density and fatigue strength of welded joints under uniaxial and multiaxial loading. Engineering Fracture Mechanics, 2008, 75, 1875-1889.	4.3	173
23	Biomedical applications of additive manufacturing: Present and future. Current Opinion in Biomedical Engineering, 2017, 2, 105-115.	3.4	170
24	The mechanical testing and performance analysis of polymer-fibre composites prepared through the additive manufacturing. Polymer Testing, 2021, 93, 106925.	4.8	162
25	Fatigue strength of severely notched specimens made of Ti-6Al-4V under multiaxial loading. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 503-517.	3.4	161
26	Fracture assessment of U-notches under mixed mode loading: two procedures based on the $\hat{\sigma}$ -equivalent local mode $\hat{I}$ ™ concept. International Journal of Fracture, 2007, 148, 415-433.	2.2	147
27	Recent advances on notch effects in metal fatigue: A review. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 637-659.	3.4	144
28	Three-dimensional stress states at crack tip induced by shear and anti-plane loading. Engineering Fracture Mechanics, 2013, 108, 65-74.	4.3	136
29	Multiaxial fatigue of V-notched steel specimens: a non-conventional application of the local energy method. Fatigue and Fracture of Engineering Materials and Structures, 2011, 34, 921-943.	3.4	135
30	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. Fatigue and Fracture of Engineering Materials and Structures, 2009, 32, 671-684.	3.4	133
31	Evaluation and comparison of critical plane criteria for multiaxial fatigue analysis of ductile and brittle materials. International Journal of Fatigue, 2018, 112, 279-288.	5.7	133
32	Application of an average strain energy density criterion to obtain the mixed mode fracture load of granite rock tested with the cracked asymmetric four-point bend specimens. Theoretical and Applied Fracture Mechanics, 2018, 97, 419-425.	4.7	133
33	Tubular nanofiber scaffolds for tissue engineered small-diameter vascular grafts. Journal of Biomedical Materials Research - Part A, 2009, 90A, 205-216.	4.0	132
34	Recent advances in core/shell bicomponent fibers and nanofibers: A review. Journal of Applied Polymer Science, 2018, 135, 46265.	2.6	131
35	A critical distance/plane method to estimate finite life of notched components under variable amplitude uniaxial/multiaxial fatigue loading. International Journal of Fatigue, 2012, 38, 7-24.	5.7	125
36	Effect of post-treatments on the fatigue behaviour of 316L stainless steel manufactured by laser powder bed fusion. International Journal of Fatigue, 2019, 123, 31-39.	5.7	125

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37	Analytical modelling of residual stress in additive manufacturing. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 971-978.	3.4	124
38	Fracture of V-notched specimens under mixed mode (I + II) loading in brittle materials. <i>International Journal of Fracture</i> , 2009, 159, 121-135.	2.2	121
39	Effects of stress ratio on high-cycle and very-high-cycle fatigue behavior of a Ti-6Al-4V alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 622, 228-235.	5.6	117
40	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> , 2017, 92, 331-350.	4.7	116
41	Brittle fracture of U-notched graphite plates under mixed mode loading. <i>Materials &amp; Design</i> , 2012, 41, 421-432.	5.1	115
42	Understanding the fracture behavior of brittle and ductile multi-flawed rocks by uniaxial loading by digital image correlation. <i>Engineering Fracture Mechanics</i> , 2018, 199, 438-460.	4.3	114
43	Fatigue of additively manufactured 316L stainless steel: The influence of porosity and surface roughness. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 2043-2052.	3.4	114
44	Generalized probabilistic model allowing for various fatigue damage variables. <i>International Journal of Fatigue</i> , 2017, 100, 187-194.	5.7	112
45	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> , 2009, 32, 713-735.	3.4	110
46	A generalized strain energy density criterion for mixed mode fracture analysis in brittle and quasi-brittle materials. <i>Theoretical and Applied Fracture Mechanics</i> , 2015, 79, 70-76.	4.7	109
47	Electrospun Nano-Fibers for Biomedical and Tissue Engineering Applications: A Comprehensive Review. <i>Materials</i> , 2020, 13, 2153.	2.9	108
48	Brittle failure of inclined keyhole notches in isostatic graphite under in-plane mixed mode loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 942-955.	3.4	107
49	In vitro and in vivo evaluation of chitosan-alginate/gentamicin wound dressing nanofibrous with high antibacterial performance. <i>Polymer Testing</i> , 2020, 82, 106298.	4.8	107
50	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> , 2017, 92, 198-204.	4.7	105
51	Multi-axial fatigue behaviour of a severely notched carbon steel. <i>International Journal of Fatigue</i> , 2006, 28, 485-493.	5.7	103
52	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> , 2014, 71, 21-30.	4.7	102
53	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> , 2019, 42, 1787-1802.	3.4	102
54	Fracture of U-notched specimens under mixed mode: Experimental results and numerical predictions. <i>Engineering Fracture Mechanics</i> , 2009, 76, 236-249.	4.3	97

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55	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> , 2012, 35, 538-555.	3.4	96
56	Fatigue strength of blunt V-notched specimens produced by selective laser melting of Ti-6Al-4V. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 97, 376-384.	4.7	95
57	Polymer Recycling in Additive Manufacturing: an Opportunity for the Circular Economy. <i>Materials Circular Economy</i> , 2020, 2, 1.	3.2	95
58	A review of digital manufacturing-based hybrid additive manufacturing processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 2281-2300.	3.0	94
59	Mg and Its Alloys for Biomedical Applications: Exploring Corrosion and Its Interplay with Mechanical Failure. <i>Metals</i> , 2017, 7, 252.	2.3	93
60	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> , 2007, 44, 4621-4645.	2.7	92
61	Fracture behaviour of notched round bars made of PMMA subjected to torsion at $\sim 60^{\circ}\text{C}$ . <i>Engineering Fracture Mechanics</i> , 2013, 102, 271-287.	4.3	92
62	Coupled fracture mode of a cracked plate under anti-plane loading. <i>Engineering Fracture Mechanics</i> , 2015, 134, 391-403.	4.3	90
63	A generalised notch stress intensity factor for U-notched components loaded under mixed mode. <i>Engineering Fracture Mechanics</i> , 2008, 75, 4819-4833.	4.3	89
64	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> , 2011, 33, 1055-1065.	5.7	89
65	Coupled fracture mode of a cracked disc under anti-plane loading. <i>Engineering Fracture Mechanics</i> , 2014, 128, 22-36.	4.3	88
66	Encapsulation of epoxy and amine curing agent in PAN nanofibers by coaxial electrospinning for self-healing purposes. <i>RSC Advances</i> , 2016, 6, 70056-70063.	3.6	88
67	High-Pressure Die-Casting: Contradictions and Challenges. <i>Jom</i> , 2015, 67, 901-908.	1.9	87
68	Brittle fracture of sharp and blunt V-notches in isostatic graphite under torsion loading. <i>Carbon</i> , 2012, 50, 1942-1952.	10.3	85
69	Very-high-cycle fatigue behavior of Ti-6Al-4V manufactured by selective laser melting: Effect of build orientation. <i>International Journal of Fatigue</i> , 2020, 136, 105628.	5.7	82
70	Effect of the thickness on elastic deformation and quasi-brittle fracture of plate components. <i>Engineering Fracture Mechanics</i> , 2010, 77, 1665-1681.	4.3	81
71	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> , 2010, 132, .	1.4	81
72	Loss of integrity of hydrogen technologies: A critical review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 23809-23840.	7.1	81

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73	Brittle fracture of sharp and blunt V-notches in isostatic graphite under pure compression loading. Carbon, 2013, 63, 101-116.	10.3	80
74	Geometry effects on fracture trajectory of PMMA samples under pure mode-I loading. Engineering Fracture Mechanics, 2016, 163, 449-461.	4.3	80
75	Fracture behaviour of notched round bars made of PMMA subjected to torsion at room temperature. Engineering Fracture Mechanics, 2012, 90, 143-160.	4.3	79
76	Fictitious notch rounding concept applied to sharp V-notches: Evaluation of the microstructural support factor for different failure hypotheses. Engineering Fracture Mechanics, 2009, 76, 1151-1175.	4.3	78
77	The Theory of Critical Distances to estimate lifetime of notched components subjected to variable amplitude uniaxial fatigue loading. International Journal of Fatigue, 2011, 33, 900-911.	5.7	78
78	Three dimensional finite element mixed fracture mode under anti-plane loading of a crack. Theoretical and Applied Fracture Mechanics, 2012, 62, 26-33.	4.7	78
79	The Theory of Critical Distances as an alternative experimental strategy for the determination of $K_{Ic}$ and $\hat{r}^*$ . Engineering Fracture Mechanics, 2010, 77, 1492-1501.	4.3	77
80	On higher order terms and out-of-plane singular mode. Mechanics of Materials, 2011, 43, 332-341.	3.2	76
81	Local fatigue strength parameters for welded joints based on strain energy density with inclusion of small-size notches. Engineering Fracture Mechanics, 2009, 76, 1109-1130.	4.3	75
82	Multiaxial notch fatigue. , 2009, , .		75
83	Generalised Neuber concept of fictitious notch rounding. International Journal of Fatigue, 2013, 51, 105-115.	5.7	74
84	Local strain energy density to predict mode II brittle fracture in Brazilian disk specimens weakened by V-notches with end holes. Materials & Design, 2015, 69, 22-29.	5.1	73
85	Towards the development of self-healing carbon/epoxy composites with improved potential provided by efficient encapsulation of healing agents in core-shell nanofibers. Polymer Testing, 2017, 62, 79-87.	4.8	73
86	Notch-defect interaction in additively manufactured Inconel 718. International Journal of Fatigue, 2019, 122, 35-45.	5.7	73
87	High temperature fatigue tests of un-notched and notched specimens made of 40CrMoV13.9 steel. Materials & Design, 2014, 63, 609-619.	5.1	72
88	Self-healing and interfacially toughened carbon fibre-epoxy composites based on electrospun core-shell nanofibres. Journal of Applied Polymer Science, 2017, 134, 44956.	2.6	72
89	From Neuber's Elementary Volume to Kitagawa and Atzori's Diagrams: An Interpretation Based on Local Energy. International Journal of Fracture, 2005, 135, L33-L38.	2.2	71
90	Prediction of threshold value for FGA formation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6872-6877.	5.6	71

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91	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> , 2013, 48, 19-27.	5.7	70
92	Regenerative medicine and drug delivery: Progress via electrospun biomaterials. <i>Materials Science and Engineering C</i> , 2020, 109, 110521.	7.3	70
93	Carbon Nanotubes (CNTs)-Reinforced Magnesium-Based Matrix Composites: A Comprehensive Review. <i>Materials</i> , 2020, 13, 4421.	2.9	70
94	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> , 2004, 127, 265-282.	2.2	69
95	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> , 2007, 146, 33-51.	2.2	69
96	Fracture assessment of polymethyl methacrylate using sharp notched disc bend specimens under mixed mode I + III loading. <i>Physical Mesomechanics</i> , 2016, 19, 355-364.	1.9	68
97	Low-Cycle Fatigue Behaviour of AISI 18Ni300 Maraging Steel Produced by Selective Laser Melting. <i>Metals</i> , 2018, 8, 32.	2.3	68
98	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> , 2008, 31, 95-107.	3.4	67
99	On Higher Order Terms in the Crack Tip Stress Field. <i>International Journal of Fracture</i> , 2010, 161, 221-226.	2.2	67
100	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> , 2016, 39, 924-938.	3.4	67
101	Fatigue assessment of welded joints under slit-parallel loading based on strain energy density or notch rounding. <i>International Journal of Fatigue</i> , 2009, 31, 1490-1504.	5.7	66
102	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> , 2011, 34, 291-304.	3.4	66
103	Fatigue properties of ductile cast iron containing chunky graphite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 554, 122-128.	5.6	66
104	Effect of vertex singularities on stress intensities near plate free surfaces. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 860-869.	3.4	65
105	Recent Advances on Bioprinted Gelatin Methacrylate-Based Hydrogels for Tissue Repair. <i>Tissue Engineering - Part A</i> , 2021, 27, 679-702.	3.1	65
106	Flow-induced vibrations of long circular cylinders modeled by coupled nonlinear oscillators. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2009, 52, 1086-1093.	0.2	64
107	Multiparametric full-field representations of the in-plane stress fields ahead of cracked components under mixed mode loading. <i>International Journal of Fatigue</i> , 2013, 46, 16-26.	5.7	64
108	Experimental and theoretical investigation of environmental media on very-high-cycle fatigue behavior for a structural steel. <i>Acta Materialia</i> , 2011, 59, 1321-1327.	7.9	63

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109	Probabilistic fatigue modelling of metallic materials under notch and size effect using the weakest link theory. <i>International Journal of Fatigue</i> , 2022, 159, 106788.	5.7	63
110	A simplified approach to apply the theory of critical distances to notched components under torsional fatigue loading. <i>International Journal of Fatigue</i> , 2006, 28, 417-430.	5.7	62
111	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> , 2008, 75, 3060-3072.	4.3	62
112	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> , 2018, 59, 456-466.	5.8	62
113	Fracture assessment of U-notches under three point bending by means of local energy density. <i>Materials &amp; Design</i> , 2011, 32, 822-830.	5.1	61
114	Transverse singular effects in V-shaped notches stressed in mode II. <i>International Journal of Fracture</i> , 2010, 164, 1-14.	2.2	60
115	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> , 2018, 115, 67-78.	5.7	60
116	In-situ investigation on fatigue behaviors of Ti-6Al-4V manufactured by selective laser melting. <i>International Journal of Fatigue</i> , 2020, 133, 105424.	5.7	60
117	Evaluation of fracture mode classification in flawed red sandstone under uniaxial compression. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 107, 102528.	4.7	60
118	Future of additive manufacturing in healthcare. <i>Current Opinion in Biomedical Engineering</i> , 2021, 17, 100255.	3.4	60
119	Fatigue Assessment of Ti-6Al-4V Circular Notched Specimens Produced by Selective Laser Melting. <i>Metals</i> , 2017, 7, 291.	2.3	59
120	Mixed mode I/II fracture investigation of Perspex based on the averaged strain energy density criterion. <i>Physical Mesomechanics</i> , 2017, 20, 149-156.	1.9	58
121	3D Printing of polymer composites: A short review. <i>Material Design and Processing Communications</i> , 2020, 2, e97.	0.9	58
122	Cracking process and acoustic emission characteristics of sandstone with two parallel filled-flaws under biaxial compression. <i>Engineering Fracture Mechanics</i> , 2020, 237, 107253.	4.3	55
123	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> , 2017, 70, 7-16.	3.1	54
124	Compression-induced crack initiation and growth in flawed rocks: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1681-1707.	3.4	54
125	Fatigue assessment of notched specimens by means of a critical plane-based criterion and energy concepts. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 84, 57-63.	4.7	53
126	Machine learning based very-high-cycle fatigue life prediction of Ti-6Al-4V alloy fabricated by selective laser melting. <i>International Journal of Fatigue</i> , 2022, 158, 106764.	5.7	53



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127	New Classification of Defects and Imperfections for Aluminum Alloy Castings. International Journal of Metalcasting, 2015, 9, 55-66.	1.9	52
128	Asymptotic residual stresses in butt-welded joints under fatigue loading. Theoretical and Applied Fracture Mechanics, 2016, 83, 114-124.	4.7	52
129	Tangential strain-based criteria for mixed-mode I/II fracture toughness of cement concrete. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 129-137.	3.4	52
130	Experimental study on effects of freeze-thaw fatigue damage on the cracking behaviors of sandstone containing two unparallel fissures. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1322-1340.	3.4	52
131	Three-Dimensional Printing Constructs Based on the Chitosan for Tissue Regeneration: State of the Art, Developing Directions and Prospect Trends. Materials, 2020, 13, 2663.	2.9	52
132	Polymethyl Methacrylate-Based Bone Cements Containing Carbon Nanotubes and Graphene Oxide: An Overview of Physical, Mechanical, and Biological Properties. Polymers, 2020, 12, 1469.	4.5	52
133	Very-high-cycle fatigue behavior of AlSi10Mg manufactured by selected laser melting: Crystal plasticity modeling. International Journal of Fatigue, 2021, 145, 106109.	5.7	52
134	Fatigue Behavior of Porous Ti-6Al-4V Made by Laser-Engineered Net Shaping. Materials, 2018, 11, 284.	2.9	51
135	Fatigue strength assessment of partial and full-penetration steel and aluminium butt-welded joints according to the peak stress method. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 1419-1431.	3.4	50
136	Directed Energy Deposition versus Wrought Ti-6Al-4V: A Comparison of Microstructure, Fatigue Behavior, and Notch Sensitivity. Advanced Engineering Materials, 2019, 21, 1900220.	3.5	50
137	Defects as a root cause of fatigue weakening of additively manufactured AlSi10Mg components. Theoretical and Applied Fracture Mechanics, 2020, 108, 102611.	4.7	50
138	Influence of processing parameters of selective laser melting on high-cycle and very-high-cycle fatigue behaviour of Ti-6Al-4V. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 240-256.	3.4	50
139	New methodology of fatigue life evaluation for multiaxially loaded notched components based on two uniaxial strain-controlled tests. International Journal of Fatigue, 2018, 111, 308-320.	5.7	49
140	Recent Trends in Three-Dimensional Bioprints Based on Alginate for Biomedical Applications. Materials, 2020, 13, 3980.	2.9	49
141	Generalized approach to estimation of strains and stresses at blunt V-notches under non-localized creep. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 292-306.	3.4	48
142	A Review of Recent Advances in Nanoengineered Polymer Composites. Polymers, 2019, 11, 644.	4.5	48
143	3D printed microneedles for transdermal drug delivery: A brief review of two decades. International Journal of Pharmaceutics, 2021, 597, 120301.	5.2	48
144	Recent Advances in Chemically-Modified and Hybrid Carrageenan-Based Platforms for Drug Delivery, Wound Healing, and Tissue Engineering. Polymers, 2021, 13, 1744.	4.5	48

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145	A Comprehensive Review on Surface Modifications of Biodegradable Magnesium-Based Implant Alloy: Polymer Coatings Opportunities and Challenges. <i>Coatings</i> , 2021, 11, 747.	2.6	48
146	High-temperature fatigue strength of a copper-cobalt-beryllium alloy. <i>Journal of Strain Analysis for Engineering Design</i> , 2014, 49, 244-256.	1.8	47
147	Fracture assessment of sharp V-notched components under Mode II loading: a comparison among some recent criteria. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 85, 217-226.	4.7	46
148	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> , 2018, 41, 1102-1119.	3.4	46
149	Interfacial toughening of carbon/epoxy composite by incorporating styrene acrylonitrile nanofibers. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 95, 242-247.	4.7	46
150	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> , 2019, 104, 102391.	4.7	46
151	The Flame Retardancy of Polyethylene Composites: From Fundamental Concepts to Nanocomposites. <i>Molecules</i> , 2020, 25, 5157.	3.8	46
152	Generalised stress intensity factors for rounded notches in plates under in-plane shear loading. <i>International Journal of Fracture</i> , 2011, 170, 123-144.	2.2	45
153	Fatigue behaviour of notched laser powder bed fusion AlSi10Mg after thermal and mechanical surface post-processing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 829, 142145.	5.6	44
154	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> , 2012, 43, 2753-2762.	2.2	43
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