## **Thomas Niendorf**

## List of Publications by Citations

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

257 papers 6,282 citations

40 h-index

g-index

269 ext. papers

7,619 ext. citations

avg, IF

6.31 L-index

#	Paper	IF	Citations
257	On the mechanical behaviour of titanium alloy TiAl6V4 manufactured by selective laser melting: Fatigue resistance and crack growth performance. <i>International Journal of Fatigue</i> , <b>2013</b> , 48, 300-307	5	822
256	On the fatigue crack growth behavior in 316L stainless steel manufactured by selective laser melting. <i>Engineering Fracture Mechanics</i> , <b>2014</b> , 120, 15-25	4.2	370
255	Highly Anisotropic Steel Processed by Selective Laser Melting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2013</b> , 44, 794-796	2.5	289
254	Fatigue life of additively manufactured TiBAlBV in the very high cycle fatigue regime. <i>International Journal of Fatigue</i> , <b>2017</b> , 94, 236-245	5	223
253	On the fatigue properties of metals manufactured by selective laser melting I The role of ductility. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 1911-1919	2.5	170
252	Inconel 939 processed by selective laser melting: Effect of microstructure and temperature on the mechanical properties under static and cyclic loading. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013</i> , 588, 188-195	5.3	151
251	In situ characterization of the deformation and failure behavior of non-stochastic porous structures processed by selective laser melting. <i>Materials Science &amp; Description of the deformation of the deformation and Processing</i> , <b>2011</b> , 528, 7962-7967	5.3	146
250	On the microstructural and mechanical properties of post-treated additively manufactured Inconel 718 superalloy under quasi-static and cyclic loading. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2016</b> , 669, 246-258	5.3	130
249	Additively manufactured cellular structures: Impact of microstructure and local strains on the monotonic and cyclic behavior under uniaxial and bending load. <i>Journal of Materials Processing Technology</i> , <b>2013</b> , 213, 1558-1564	5.3	118
248	Superior creep strength of a nickel-based superalloy produced by selective laser melting. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016,</i> 674, 299-307	5.3	116
247	Microstructural Characterization and Mechanical Performance of Hot Work Tool Steel Processed by Selective Laser Melting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2015</b> , 46, 545-549	2.5	102
246	The role of monotonic pre-deformation on the fatigue performance of a high-manganese austenitic TWIP steel. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2009</b> , 499, 518-524	5.3	101
245	A heat treatable TiB2/Al-3.5Cu-1.5Mg-1Si composite fabricated by selective laser melting: Microstructure, heat treatment and mechanical properties. <i>Composites Part B: Engineering</i> , <b>2018</b> , 147, 162-168	10	90
244	Crashworthiness and numerical simulation of hybrid aluminium-CFRP tubes under axial impact. <i>Thin-Walled Structures</i> , <b>2017</b> , 117, 1-9	4.7	85
243	Fatigue Strength Prediction for Titanium Alloy TiAl6V4 Manufactured by Selective Laser Melting.  Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3816-382	23 <sup>2.3</sup>	84
242	Duplex stainless steel fabricated by selective laser melting - Microstructural and mechanical properties. <i>Materials and Design</i> , <b>2017</b> , 133, 136-142	8.1	80
241	Functionally Graded Alloys Obtained by Additive Manufacturing. <i>Advanced Engineering Materials</i> , <b>2014</b> , 16, 857-861	3.5	77

240	Grain boundary characterization and energetics of superalloys. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2010</b> , 527, 7115-7125	5.3	73	
239	Fatigue crack growth Microstructure relationships in a high-manganese austenitic TWIP steel.  Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2412-2417	5.3	72	
238	On the effect of gamma phase formation on the pseudoelastic performance of polycrystalline FeMnAlNi shape memory alloys. <i>Scripta Materialia</i> , <b>2015</b> , 108, 23-26	5.6	68	
237	Handbuch Hochtemperatur- Werkstofftechnik <b>2011</b> ,		68	
236	On the effect of internal channels and surface roughness on the high-cycle fatigue performance of Ti-6Al-4V processed by SLM. <i>Materials and Design</i> , <b>2018</b> , 143, 1-11	8.1	64	
235	Microstructural design of Ni-base alloys for high-temperature applications: impact of heat treatment on microstructure and mechanical properties after selective laser melting. <i>Progress in Additive Manufacturing</i> , <b>2016</b> , 1, 141-151	5	58	
234	Lattice Structures Manufactured by SLM: On the Effect of Geometrical Dimensions on Microstructure Evolution During Processing. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2014</b> , 45, 1181-1185	2.5	57	
233	Multi-phase microstructure design of a low-alloy TRIP-assisted steel through a combined computational and experimental methodology. <i>Acta Materialia</i> , <b>2012</b> , 60, 3022-3033	8.4	56	
232	Superior fatigue crack growth resistance, irreversibility, and fatigue crack growththicrostructure relationship of nanocrystalline alloys. <i>Acta Materialia</i> , <b>2011</b> , 59, 7340-7355	8.4	53	
231	Design of novel materials for additive manufacturing - Isotropic microstructure and high defect tolerance. <i>Scientific Reports</i> , <b>2018</b> , 8, 1298	4.9	51	
230	On the low-cycle fatigue response of pre-strained austenitic Fe61Mn24Ni6.5Cr8.5 alloy showing TWIP effect. <i>International Journal of Fatigue</i> , <b>2012</b> , 40, 51-60	5	51	
229	On the fatigue crack growththicrostructure relationship in ultrafine-grained interstitial-free steel. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4813-4821	4.3	50	
228	Corrosion fatigue behavior of a biocompatible ultrafine-grained niobium alloy in simulated body fluid. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 5, 181-92	4.1	49	
227	On the fatigue behavior of ultrafine-grained interstitial-free steel. <i>International Journal of Materials Research</i> , <b>2006</b> , 97, 1328-1336	0.5	49	
226	MicrostructureThechanical property relationships in ultrafine-grained NbZr. <i>Acta Materialia</i> , <b>2007</b> , 55, 6596-6605	8.4	47	
225	Unexpected cyclic stress-strain response of dual-phase high-entropy alloys induced by partial reversibility of deformation. <i>Scripta Materialia</i> , <b>2018</b> , 143, 63-67	5.6	46	
224	Cyclic degradation in bamboo-like FeMnAlNi shape memory alloys IThe role of grain orientation. <i>Scripta Materialia</i> , <b>2016</b> , 114, 156-160	5.6	46	
223	Impact of the scanning strategy on the mechanical behavior of 316L steel synthesized by selective laser melting. <i>Journal of Manufacturing Processes</i> , <b>2019</b> , 45, 255-261	5	46	

222	Martensite aging 🗗 Avenue to new high temperature shape memory alloys. <i>Acta Materialia</i> , <b>2015</b> , 89, 298-304	8.4	45
221	Cyclic degradation mechanisms in aged FeNiCoAlTa shape memory single crystals. <i>Acta Materialia</i> , <b>2014</b> , 79, 126-137	8.4	45
220	On the Microstructural Stability of Ultrafine-Grained Interstitial-Free Steel under Cyclic Loading. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2007</b> , 38, 1946-195	5 <del>2</del> .3	45
219	The role of heat treatment on the cyclic stressEtrain response of ultrafine-grained interstitial-free steel. <i>International Journal of Fatigue</i> , <b>2008</b> , 30, 426-436	5	42
218	Influence of precipitates on low-cycle fatigue and crack growth behavior in an ultrafine-grained aluminum alloy. <i>Acta Materialia</i> , <b>2014</b> , 80, 250-263	8.4	41
217	Promoting abnormal grain growth in Fe-based shape memory alloys through compositional adjustments. <i>Nature Communications</i> , <b>2019</b> , 10, 2337	17.4	40
216	Steel showing twinning-induced plasticity processed by selective laser melting An additively manufactured high performance material. <i>Materials Characterization</i> , <b>2013</b> , 85, 57-63	3.9	40
215	Additive Manufacturing of a Steel¶eramic Multi-Material by Selective Laser Melting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2019</b> , 50, 1042-1051	2.5	39
214	Processing of New Materials by Additive Manufacturing: Iron-Based Alloys Containing Silver for Biomedical Applications. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 2829-2833	2.3	39
213	Effect of grain size on the superelastic response of a FeMnAlNi polycrystalline shape memory alloy. <i>Scripta Materialia</i> , <b>2016</b> , 125, 68-72	5.6	39
212	On the effect of titanium on quenching sensitivity and pseudoelastic response in Fe-Mn-Al-Ni-base shape memory alloy. <i>Scripta Materialia</i> , <b>2017</b> , 126, 20-23	5.6	39
211	Monitoring the fatigue-induced damage evolution in ultrafine-grained interstitial-free steel utilizing digital image correlation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2009</b> , 517, 225-234	5.3	38
210	Martensite stabilization in shape memory alloys Experimental evidence for short-range ordering. <i>Materials Letters</i> , <b>2015</b> , 159, 16-19	3.3	31
209	Damage evolution in pseudoelastic polycrystalline CoNiCa high-temperature shape memory alloys. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 633, 288-295	5.7	31
208	Functional Fatigue and Tension Compression Asymmetry in [001]-Oriented Co49Ni21Ga30 High-Temperature Shape Memory Alloy Single Crystals. <i>Shape Memory and Superelasticity</i> , <b>2015</b> , 1, 6-17	2.8	30
207	Microstructural Evolution and Functional Properties of Fe-Mn-Al-Ni Shape Memory Alloy Processed by Selective Laser Melting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 2569-2573	2.3	30
206	Functional and structural fatigue of titanium tantalum high temperature shape memory alloys (HT SMAs). <i>Materials Science &amp; Damp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 620, 359-366	5.3	29
205	Effect of internal oxidation on wear behavior of ultrafine-grained Nb\(\mathbb{\matha\\\\\\\\\\\\\\\\\\\\\\\\\	786.194	28

204	Damage tolerant design of additively manufactured metallic components subjected to cyclic loading: State of the art and challenges. <i>Progress in Materials Science</i> , <b>2021</b> , 121, 100786-100786	42.2	28
203	The role of grain size and distribution on the cyclic stability of titanium. Scripta Materialia, 2009, 60, 34	4- <u>3</u> .€7	27
202	Corrosion properties of bioresorbable FeMn-Ag alloys prepared by selective laser melting. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2017</b> , 68, 1028-1036	1.6	26
201	Time-of-Flight Three Dimensional Neutron Diffraction in Transmission Mode for Mapping Crystal Grain Structures. <i>Scientific Reports</i> , <b>2017</b> , 7, 9561	4.9	26
200	Structural components manufactured by Selective Laser Melting and Investment CastingImpact of the process route on the damage mechanism under cyclic loading. <i>Journal of Materials Processing Technology</i> , <b>2017</b> , 248, 130-142	5.3	25
199	CYCLIC DEFORMATION BEHAVIOR OF AGED FeNiCoAlTa SINGLE CRYSTALS. Functional Materials Letters, <b>2012</b> , 05, 1250045	1.2	25
198	Thermal cycling behavior of an aged FeNiCoAlTa single-crystal shape memory alloy. <i>Scripta Materialia</i> , <b>2014</b> , 81, 28-31	5.6	24
197	Experimental and Numerical Investigation of the Role of Grain Boundary Misorientation Angle on the Dislocation Train Boundary Interactions. <i>Advanced Engineering Materials</i> , <b>2011</b> , 13, 281-287	3.5	24
196	Anti-phase domains in cubic GaN. Journal of Applied Physics, 2011, 110, 123512	2.5	24
195	On the microstructural and functional stability of Fe-Mn-Al-Ni at ambient and elevated temperatures. <i>Scripta Materialia</i> , <b>2019</b> , 162, 442-446	5.6	24
194	On the low-cycle fatigue response of CoCrNiFeMn high entropy alloy with ultra-fine grain structure. <i>Acta Materialia</i> , <b>2021</b> , 205, 116540	8.4	24
193	FeMnNiAl Iron-Based Shape Memory Alloy: Promises and Challenges. <i>Shape Memory and Superelasticity</i> , <b>2019</b> , 5, 263-277	2.8	22
192	High-resolution in-situ characterization of the surface evolution of a polycrystalline NiTi SMA-alloy under pseudoelastic deformation. <i>Materials Characterization</i> , <b>2011</b> , 62, 298-303	3.9	22
191	Improvement of the fatigue performance of an ultrafine-grained Nb🛭 ralloy by nano-sized precipitates formed by internal oxidation. <i>Scripta Materialia</i> , <b>2008</b> , 58, 571-574	5.6	22
190	Analysis of residual stress profiles in plastic materials using the hole drilling method Influence factors and practical aspects. <i>Polymer Testing</i> , <b>2017</b> , 59, 29-37	4.5	21
189	Inline additively manufactured functionally graded multi-materials: microstructural and mechanical characterization of 316L parts with H13 layers. <i>Progress in Additive Manufacturing</i> , <b>2018</b> , 3, 221-231	5	21
188	Cyclic Degradation of Co49Ni21Ga30 High-Temperature Shape Memory Alloy: On the Roles of Dislocation Activity and Chemical Order. <i>Shape Memory and Superelasticity</i> , <b>2016</b> , 2, 37-49	2.8	20
187	Influence of Short Austenitization Treatments on the Mechanical Properties of Low-Alloy Steels for Hot Forming Applications. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 3199-3207	2.3	18

186	Three-dimensional modeling of the grain boundary misorientation angle distribution based on two-dimensional experimental texture measurements. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 5604-5612	5.3	18
185	Effect of Post-Process Machining on Surface Properties of Additively Manufactured H13 Tool Steel. HTM - Journal of Heat Treatment and Materials, <b>2018</b> , 73, 173-186	0.7	18
184	Room temperature superelastic responses of NiTi alloy treated by two distinct thermomechanical processing schemes. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 684, 303-311	5.3	17
183	Functional encapsulation of laser melted Inconel 718 by Arc-PVD and HVOF for post compacting by hot isostatic pressing. <i>Powder Metallurgy</i> , <b>2015</b> , 58, 259-264	1.9	17
182	Thermal stability, microstructure and texture evolution of thermomechanical processed AlCoCrFeNi2.1 eutectic high entropy alloy. <i>Materials Science &amp; Dine in Bructural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 799, 140012	5.3	17
181	Cyclic deformation behavior of a damage tolerant CrMnNi TRIP steel produced by electron beam melting. <i>International Journal of Fatigue</i> , <b>2018</b> , 114, 262-271	5	17
180	On the Effect of Quenching on Postweld Heat Treatment of Friction-Stir-Welded Aluminum 7075 Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 5255-5265	1.6	16
179	In situ characterization of martensite variant formation in nickellitanium shape memory alloy under biaxial loading. <i>Scripta Materialia</i> , <b>2011</b> , 65, 915-918	5.6	16
178	Performance of Thermo-Mechanically Processed AA7075 Alloy at Elevated Temperatures <b>E</b> rom Microstructure to Mechanical Properties. <i>Metals</i> , <b>2020</b> , 10, 884	2.3	16
177	On the functional degradation of binary titaniumEantalum high-temperature shape memory alloys IA new concept for fatigue life extension. <i>Functional Materials Letters</i> , <b>2014</b> , 07, 1450042	1.2	15
176	A micromechanical-based finite element simulation of process-induced residual stresses in metal-CFRP-hybrid structures. <i>Composite Structures</i> , <b>2020</b> , 238, 111926	5.3	14
175	Damage tolerant design by microstructural gradation Influence of processing parameters and build orientation on crack growth within additively processed 316L. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 764, 138186	5.3	14
174	Anisotropy of ultrafine-grained alloys under impact loading: The case of biomedical niobiumdirconium. <i>Scripta Materialia</i> , <b>2012</b> , 66, 435-438	5.6	14
173	Deformation mechanisms in high-manganese steels showing twinning-induced plasticity: Fine-grained material and single crystals at ambient and cryogenic temperatures. <i>Scripta Materialia</i> , <b>2012</b> , 67, 875-878	5.6	14
172	Early detection of crack initiation sites in TiAl alloys during low-cycle fatigue at high temperatures utilizing digital image correlation. <i>International Journal of Materials Research</i> , <b>2009</b> , 100, 603-608	0.5	14
171	A comprehensive evaluation of parameters governing the cyclic stability of ultrafine-grained FCC alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 6345-6355	5.3	14
170	Effect of Friction Stir Processing on Microstructural, Mechanical, and Corrosion Properties of Al-Si12 Additive Manufactured Components. <i>Metals</i> , <b>2020</b> , 10, 85	2.3	14
169	Effect of notches on the deformation behavior and damage evolution of additively manufactured 316L specimens under uniaxial quasi-static and cyclic loading. <i>International Journal of Fatigue</i> , <b>2019</b> , 127, 175, 180	5	13

168	Handbuch Hochtemperatur-Werkstofftechnik <b>2015</b> ,		13
167	Cyclic Degradation Behavior of (langle 001 rangle)-Oriented FeMnAlNi Single Crystals in Tension. Shape Memory and Superelasticity, 2017, 3, 335-346	2.8	13
166	Cyclic stability of ultrafine-grained interstitial-free steel at elevated temperatures. <i>Materials Science &amp; Materials A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 503, 160-162	5.3	13
165	Influence of specimen position on the build platform on the mechanical properties of as-built direct aged electron beam melted Inconel 718 alloy. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 772, 138785	5.3	13
164	Direct microstructure design by hot extrusion [High-temperature shape memory alloys with bamboo-like microstructure. <i>Scripta Materialia</i> , <b>2019</b> , 162, 127-131	5.6	13
163	On the reliability of residual stress measurements in polycarbonate samples by the hole drilling method. <i>Polymer Testing</i> , <b>2018</b> , 71, 329-334	4.5	13
162	Effect of grain size on the very high cycle fatigue behavior and notch sensitivity of titanium. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2019</b> , 104, 102362	3.7	12
161	Consequences of deep rolling on the fatigue behavior of steel SAE 1045 at high loading amplitudes. <i>International Journal of Fatigue</i> , <b>2019</b> , 118, 192-201	5	12
160	Influence of surface pre-treatments on the high-cycle fatigue behavior of TiBALEV IFrom anodizing to laser-assisted techniques. <i>International Journal of Fatigue</i> , <b>2016</b> , 91, 195-203	5	11
159	On the low-cycle fatigue behavior of friction stir welded AlBi12 parts produced by selective laser melting. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 764, 138189	5.3	11
158	Microstructural stability of ultrafine-grained niobium irconium alloy at elevated temperatures. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 517, 61-68	5.7	11
157	Effect of Tool Temperature on Mechanical Properties and Microstructure of Thermo-Mechanically Processed AA6082 and AA7075 Aluminum Alloys. <i>HTM - Journal of Heat Treatment and Materials</i> , <b>2020</b> , 75, 177-191	0.7	11
156	Labelling additively manufactured parts by microstructural gradation (advanced copy-proof design. <i>Rapid Prototyping Journal</i> , <b>2016</b> , 22, 630-635	3.8	11
155	Load distribution and damage evolution in bending and stretch dominated Ti-6Al-4V cellular structures processed by selective laser melting. <i>International Journal of Fatigue</i> , <b>2019</b> , 121, 219-228	5	11
154	On the Impact of Additive Manufacturing on Microstructural and Mechanical Properties of Stainless Steel and Ni-base Alloys. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , <b>2017</b> , 162, 199-202	0.6	10
153	Influence of Microstructural Features on the Strain Hardening Behavior of Additively Manufactured Metallic Components. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1900275	3.5	10
152	Damage Tolerance Evaluation of E-PBF-Manufactured Inconel 718 Strut Geometries by Advanced Characterization Techniques. <i>Materials</i> , <b>2020</b> , 13,	3.5	10
151	Comparison of the monotonic and cyclic mechanical properties of ultrafine-grained low carbon steels processed by continuous and conventional equal channel angular pressing. <i>Materials &amp; Design</i> , <b>2013</b> , 47, 138-142		10

150	Electron beam welding of FeMnAlNi shape memory alloy: Microstructure evolution and shape memory response. <i>Functional Materials Letters</i> , <b>2017</b> , 10, 1750043	1.2	10
149	Martensitic Transformation in Ultrafine-Grained Stainless Steel AISI 304L Under Monotonic and Cyclic Loading. <i>Metals</i> , <b>2012</b> , 2, 56-64	2.3	10
148	Additive Manufacturing of Co-Ni-Ga High-Temperature Shape Memory Alloy: Processability and Phase Transformation Behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 1056-1061	2.3	10
147	On the Tensile Properties of Inconel 718 Fabricated by EBM for As-Built and Heat-Treated Components. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 2969-2974	2.5	10
146	Microstructure and mechanical properties of laser surface treated 44MnSiVS6 microalloyed steel. <i>Optics and Laser Technology</i> , <b>2020</b> , 127, 106139	4.2	9
145	Surface strain evolution of ultrafine-grained aluminum alloy laminates under tension [Microscale plastic instabilities and the Portevin[le Chatelier effect. <i>Scripta Materialia</i> , <b>2013</b> , 68, 809-812	5.6	9
144	Growth of cubic GaN on 3CBiC/Si (001) nanostructures. <i>Journal of Crystal Growth</i> , <b>2013</b> , 378, 291-294	1.6	9
143	Tension - Compression Asymmetry in Co49Ni21Ga30 High-Temperature Shape Memory Alloy Single Crystals. <i>Materials Science Forum</i> , <b>2013</b> , 738-739, 82-86	0.4	9
142	Cyclic behavior and microstructural stability of ultrafine-grained AA6060 under strain-controlled fatigue. <i>Procedia Engineering</i> , <b>2010</b> , 2, 2199-2208		9
141	On the Cyclic Stability and Fatigue Performance of Ultrafine-Grained Interstitial-Free Steel under Mean Stress. <i>Key Engineering Materials</i> , <b>2008</b> , 378-379, 39-52	0.4	9
140	Low-cycle fatigue performance of remelted laser powder bed fusion (L-PBF) biomedical Ti25Ta. <i>Materials Science &amp; A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 798, 140228	5.3	9
139	Martensite aging in <001> oriented Co49Ni21Ga30 single crystals in tension. <i>Functional Materials Letters</i> , <b>2018</b> , 11, 1850024	1.2	9
138	Cyclic deformation response of ultra-fine grained titanium at elevated temperatures. <i>International Journal of Fatigue</i> , <b>2019</b> , 122, 228-239	5	8
137	Excellent superelasticity in a Co-Ni-Ga high-temperature shape memory alloy processed by directed energy deposition. <i>Materials Research Letters</i> , <b>2020</b> , 8, 314-320	7.4	8
136	Residual Stress Analysis on Thin Metal Sheets Using the Incremental Hole Drilling Method I Fundamentals and Validation. <i>Experimental Techniques</i> , <b>2019</b> , 43, 65-79	1.4	8
135	Microstructural evolution and functional fatigue of a Ti-25Ta high-temperature shape memory alloy. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 4287-4295	2.5	8
134	Cyclic degradation of titaniumEantalum high-temperature shape memory alloys Ithe role of dislocation activity and chemical decomposition. <i>Functional Materials Letters</i> , <b>2015</b> , 08, 1550062	1.2	8
133	Microstructure deformation relationships in fine grained high manganese TWIP steel the role of local texture. <i>International Journal of Materials Research</i> , <b>2012</b> , 103, 12-16	0.5	8

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132	Fatigue Damage Evolution in Ultrafine-Grained Interstitial-Free Steel. <i>Advanced Engineering Materials</i> , <b>2011</b> , 13, 275-280	3.5	8	
131	Effect of Fibre Material and Fibre Roughness on the Pullout Behaviour of Metallic Micro Fibres Embedded in UHPC. <i>Materials</i> , <b>2020</b> , 13,	3.5	8	
130	Tailoring the Microstructure in Polycrystalline CoNiCa High-Temperature Shape Memory Alloys by Hot Extrusion. <i>Shape Memory and Superelasticity</i> , <b>2019</b> , 5, 84-94	2.8	7	
129	Pathways Towards Grain Boundary Engineering for Improved Structural Performance in Polycrystalline CoNi© a Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , <b>2019</b> , 5, 73-83	2.8	7	
128	On the influence of overloads on the fatigue performance of deep rolled steel SAE 1045. <i>International Journal of Fatigue</i> , <b>2019</b> , 126, 221-230	5	7	
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