

Thomas Niendorf

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8436728/thomas-niendorf-publications-by-year.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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	72 g-index
269 ext. papers	7,619 ext. citations	3.8 avg, IF	6.31 L-index

#	Paper	IF	Citations
257	Effects of aging on the stress-induced martensitic transformation and cyclic superelastic properties in Co-Ni-Ga shape memory alloy single crystals under compression. <i>Acta Materialia</i> , 2022 , 226, 117623	8.4	5
256	On the Impact of Build Envelope Sizes on E-PBF Processed Pure Iron. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022 , 53, 8	2.5	1
255	Oxide Modified Iron in Electron Beam Powder Bed Fusion From Processability to Corrosion Properties 2022 , 1, 31-53		0
254	On the impact of nanometric δ -precipitates on the tensile deformation of superelastic Co49Ni21Ga30. <i>Acta Materialia</i> , 2022 , 230, 117835	8.4	
253	Microstructural and Mechanical Properties of AISI 4140 Steel Processed by Electron Beam Powder Bed Fusion Analyzed Using Miniature Samples 2022 , 296-311		1
252	Calibration and Validation of Micromagnetic Data for Non-Destructive Analysis of Near-Surface Properties after Hard Turning. <i>HTM - Journal of Heat Treatment and Materials</i> , 2022 , 77, 156-172	0.7	0
251	Measurement and simulation of residual stresses in laser welded CFRP/steel lap joints. <i>Composite Structures</i> , 2022 , 115687	5.3	1
250	Experimental Analysis of Residual Stresses in CFRPs through Hole-Drilling Method: The Role of Stacking Sequence, Thickness, and Defects. <i>Journal of Composites Science</i> , 2022 , 6, 138	3	
249	Influence of a remelt scan strategy on the microstructure and fatigue behaviour of additively manufactured biomedical Ti65Ta efficiently assessed using small scale specimens. <i>International Journal of Fatigue</i> , 2022 , 162, 106944	5	0
248	Novel austenitic Cr-Mn-Ni TWIP-steel with superior strength enabled by laser powder bed fusion \square On the role of substrate temperatures. <i>Additive Manufacturing Letters</i> , 2022 , 100065		0
247	Consequences of Deep Rolling at Elevated Temperature on Near-Surface and Fatigue Properties of High-Manganese TWIP Steel X40MnCrAl19-2. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10406	2.6	0
246	A mechanical comparison of alpha and beta phase biomedical TiTa lattice structures. <i>Materials and Design</i> , 2021 , 212, 110220	8.1	2
245	Evaluation of extremely steep residual stress gradients based on a combined approach using laboratory-scale equipment.. <i>Journal of Applied Crystallography</i> , 2021 , 54, 1793-1798	3.8	2
244	On the low-cycle fatigue behavior of thermo-mechanically processed high-strength aluminum alloys. <i>International Journal of Fatigue</i> , 2021 , 156, 106676	5	5
243	On the Microstructural and Cyclic Mechanical Properties of Pure Iron Processed by Electron Beam Melting. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100018	3.5	3
242	Characterization of Mechanical Properties, Macroscopic Deformation Behavior, and Microstructure of Functionally Graded 22MnB5 Steel. <i>Steel Research International</i> , 2021 , 92, 2000633	1.6	2
241	Tension-compression asymmetry of the superelastic behavior of high-strength [001]-oriented FeNiCoAlNb crystals. <i>Materials Letters</i> , 2021 , 289, 129395	3.3	2

240	On the reliability of residual stress measurements in unidirectional carbon fibre reinforced epoxy composites. <i>Polymer Testing</i> , 2021 , 97, 107146	4.5	7
239	On the influence of build orientation on properties of friction stir welded AlSi10Mg parts produced by selective laser melting. <i>Journal of Materials Research and Technology</i> , 2021 , 12, 1446-1460	5.5	5
238	Impact of test temperature on functional degradation in Fe-Ni-Co-Al-Ta shape memory alloy single crystals. <i>Materials Letters</i> , 2021 , 291, 129430	3.3	0
237	Hot Work Tool Steel Processed by Laser Powder Bed Fusion: A Review on Most Relevant Influencing Factors. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100049	3.5	5
236	Thermal Stability of Residual Stresses in Differently Deep Rolled Surface Layers of Steel SAE 1045. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 6160-6166	1.6	
235	CuCrZr processed by laser powder bed fusion: Processability and influence of heat treatment on electrical conductivity, microstructure and mechanical properties. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 2570-2590	3	6
234	Shape Memory Effect and Superelasticity of [001]-Oriented FeNiCoAlNb Single Crystals Aged under and without Stress. <i>Metals</i> , 2021 , 11, 943	2.3	3
233	Plasma sprayed Lanthanum zirconate coating over additively manufactured carbon nanotube reinforced Ni-based Composite: Unique performance of thermal barrier coating system without bondcoat. <i>Applied Surface Science</i> , 2021 , 550, 149397	6.7	5
232	Overmoulding of Additively Manufactured Titanium Inserts Using Polyoxymethylene (POM): Evaluation of Bond Quality as a Function of Process Parameters. <i>Journal of Composites Science</i> , 2021 , 5, 159	3	
231	Influence of Deep Rolling and Induction Hardening on Microstructure Evolution of Crankshaft Sections made from 38MnSiV5 and 42CrMo4. <i>HTM - Journal of Heat Treatment and Materials</i> , 2021 , 76, 175-194	0.7	3
230	Effects of Aging under Stress on Mechanical Properties and Microstructure of EN AW 7075 Alloy. <i>Metals</i> , 2021 , 11, 1142	2.3	2
229	Effect of Crystallographic Orientation and Grain Boundaries on Martensitic Transformation and Superelastic Response of Oligocrystalline FeMnAlNi Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2021 , 7, 373-382	2.8	1
228	Thermal stability, microstructure and texture evolution of thermomechanical processed AlCoCrFeNi _{2.1} eutectic high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 799, 140012	5.3	17
227	Adhesively bonded joints in components manufactured via selective laser melting. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021 , 235, 518-526	1.3	4
226	On the Influence of Microstructure on the Corrosion Behavior of FeMnAlNi Shape Memory Alloy in 5.0 wt% NaCl Solution. <i>Advanced Engineering Materials</i> , 2021 , 23, 2000865	3.5	4
225	Functionally graded structures realized based on FeMnAlNi shape memory alloys. <i>Scripta Materialia</i> , 2021 , 194, 113619	5.6	5
224	Rubber-like behaviour and superelasticity of [001]-oriented FeNiCoAlNb single crystals containing δ - and ϵ -phase particles. <i>Journal of Alloys and Compounds</i> , 2021 , 856, 158158	5.7	4
223	On the low-cycle fatigue response of CoCrNiFeMn high entropy alloy with ultra-fine grain structure. <i>Acta Materialia</i> , 2021 , 205, 116540	8.4	24

222	Failure mode map for E-PBF manufactured Ti6Al4V sandwich panels. <i>Engineering Failure Analysis</i> , 2021 , 121, 105159	3.2	2
221	Influence of spray trajectories on characteristics of cold-sprayed copper deposits. <i>Surface and Coatings Technology</i> , 2021 , 405, 126703	4.4	6
220	On the structural integrity of Fe-36Ni Invar alloy processed by selective laser melting. <i>Additive Manufacturing</i> , 2021 , 37, 101603	6.1	6
219	Prediction of near surface residual stress states for hard turned specimens using data driven nonlinear models. <i>Procedia CIRP</i> , 2021 , 101, 1-4	1.8	1
218	Laser Powder Bed Fusion Processing of Fe-Mn-Al-Ni Shape Memory Alloy On the Effect of Elevated Platform Temperatures. <i>Metals</i> , 2021 , 11, 185	2.3	4
217	Measurement and Analysis of Residual Stresses and Warpage in Fiber Reinforced Plastic and Hybrid Components. <i>Metals</i> , 2021 , 11, 335	2.3	5
216	On the polarisation and Mott-Schottky characteristics of an Fe-Mn-Al-Ni shape-memory alloy and pure Fe in NaCl-free and NaCl-contaminated Ca(OH) ₂ sat solution A comparative study. <i>Corrosion Science</i> , 2021 , 179, 109172	6.8	4
215	Tribological Performance of Additively Manufactured AISI H13 Steel in Different Surface Conditions. <i>Materials</i> , 2021 , 14,	3.5	4
214	Hot Work Tool Steel Processed by Laser Powder Bed Fusion: A Review on Most Relevant Influencing Factors. <i>Advanced Engineering Materials</i> , 2021 , 23, 2170027	3.5	1
213	Severe plastic deformation as a processing tool for strengthening of additive manufactured alloys. <i>Journal of Manufacturing Processes</i> , 2021 , 68, 788-795	5	6
212	Influence of Microstructure and Defects on Mechanical Properties of AISI H13 Manufactured by Electron Beam Powder Bed Fusion. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 6895-6904	1.6	2
211	A pragmatic approach for assessment of laser-induced compressive residual stress profiles. <i>Journal of Manufacturing Processes</i> , 2021 , 68, 778-787	5	1
210	Damage tolerant design of additively manufactured metallic components subjected to cyclic loading: State of the art and challenges. <i>Progress in Materials Science</i> , 2021 , 121, 100786-100786	42.2	28
209	Additive Manufacturing of Compositionally-Graded AISI 316L to CoCrMo Structures by Directed Energy Deposition. <i>Crystals</i> , 2021 , 11, 1043	2.3	2
208	Novel prestressing applications in civil engineering structures enabled by Fe Mn Al Ni shape memory alloys. <i>Engineering Structures</i> , 2021 , 241, 112430	4.7	7
207	A Novel Approach to Robustly Determine Residual Stress in Additively Manufactured Microstructures Using Synchrotron Radiation. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100184	3.5	2
206	In situ characterization of the functional degradation of a [001] oriented Fe-Mn-Al-Ni single crystal under compression using acoustic emission measurements. <i>Acta Materialia</i> , 2021 , 117333	8.4	0
205	On the influence of γ -carbides on the low-cycle fatigue behavior of high-Mn light-weight steels. <i>International Journal of Fatigue</i> , 2021 , 150, 106327	5	4

204	On the fatigue behavior of differently deep rolled conditions of SAE 1045 in the very-high-cycle fatigue regime. <i>International Journal of Fatigue</i> , 2021 , 151, 106360	5	5
203	Soft-magnetic behavior of laser beam melted FeSi3 alloy with graded cross-section. <i>Journal of Materials Processing Technology</i> , 2021 , 296, 117183	5.3	1
202	On the influence of process interruptions during additive manufacturing on the fatigue resistance of AlSi12. <i>Additive Manufacturing</i> , 2021 , 47, 102346	6.1	2
201	Evolution of residual stress, microstructure and cyclic performance of the equiatomic high-entropy alloy CoCrFeMnNi after deep rolling. <i>International Journal of Fatigue</i> , 2021 , 153, 106513	5	3
200	The Effect of Fiber Waviness on the Residual Stress State and Its Prediction by the Hole Drilling Method in Fiber Metal Laminates: A Global-Local Finite Element Analysis. <i>Metals</i> , 2021 , 11, 156	2.3	1
199	The Influence of Heat Treatmnet and Stress State on Functional and Mechanical Properties of [001]-Oriented FeNiCoAlTi Single Crystals. <i>Russian Physics Journal</i> , 2021 , 63, 1596-1604	0.7	
198	Determination and Validation of Residual Stresses in CFRP/Metal Hybrid Components Using the Incremental Hole Drilling Method. <i>Journal of Composites Science</i> , 2020 , 4, 143	3	7
197	Influence of the Miniaturisation Effect on the Effective Stiffness of Lattice Structures in Additive Manufacturing. <i>Metals</i> , 2020 , 10, 1442	2.3	5
196	Excellent superelasticity in a Co-Ni-Ga high-temperature shape memory alloy processed by directed energy deposition. <i>Materials Research Letters</i> , 2020 , 8, 314-320	7.4	8
195	On the Impact of Texture and Grain Size on the Pseudoelastic Properties of Polycrystalline FeNiCoAlTi Alloy. <i>Shape Memory and Superelasticity</i> , 2020 , 6, 191-201	2.8	3
194	On the Influence of Surface Hardening Treatments on Microstructure Evolution and Residual Stress in Microalloyed Medium Carbon Steel. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 3040-3054	1.6	4
193	Effects of Thermomechanical Processing on the Microstructure and Mechanical Properties of Fe-Based Alloys. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 2274-2282	1.6	3
192	Fatigue Crack Initiation in the Iron-Based Shape Memory Alloy FeMnAlNiTi. <i>Shape Memory and Superelasticity</i> , 2020 , 6, 323-331	2.8	3
191	Influence of complex geometries on the properties of laser-hardened surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 4255-4260	3.2	3
190	Effect of Grain Statistics on Micromechanical Modeling: The Example of Additively Manufactured Materials Examined by Electron Backscatter Diffraction. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901416	2.5	1
189	Microstructure and mechanical properties of laser surface treated 44MnSiVS6 microalloyed steel. <i>Optics and Laser Technology</i> , 2020 , 127, 106139	4.2	9
188	A micromechanical-based finite element simulation of process-induced residual stresses in metal-CFRP-hybrid structures. <i>Composite Structures</i> , 2020 , 238, 111926	5.3	14
187	Effect of Compositional Variation Induced by EBM Processing on Deformation Behavior and Phase Stability of Austenitic Cr-Mn-Ni TRIP Steel. <i>Jom</i> , 2020 , 72, 1052-1064	2.1	3

186	Induction Butt Welding Followed by Abnormal Grain Growth: A Promising Route for Joining of FeMnAlNi Tubes. <i>Shape Memory and Superelasticity</i> , 2020 , 6, 131-138	2.8	4
185	Functional microfibre reinforced ultra-high performance concrete (FMF-UHPC). <i>Cement and Concrete Research</i> , 2020 , 130, 105993	10.3	7
184	Damage Tolerance Evaluation of E-PBF-Manufactured Inconel 718 Strut Geometries by Advanced Characterization Techniques. <i>Materials</i> , 2020 , 13,	3.5	10
183	On the influence of in situ sound wave superposition on the microstructure of laser welded 7000 aluminum alloys. <i>Journal of Advanced Joining Processes</i> , 2020 , 1, 100013	2.1	2
182	On data-driven nonlinear uncertainty modeling: Methods and application for control-oriented surface condition prediction in hard turning. <i>TM Technisches Messen</i> , 2020 , 87, 732-741	0.7	2
181	Role of Post-Fabrication Heat Treatment on the Low-Cycle Fatigue Behavior of Electron Beam Melted Inconel 718 Superalloy 2020 , 465-483		3
180	On the Challenges toward Realization of Functionally Graded Structures by Electron Beam MeltingBe-Base Shape Memory Alloy and Stainless Steel 2020 , 20-33		1
179	Fretting Fatigue Characterization in Press-Fit Joints of AM Parts by X-Ray Tomography and Digital Image Correlation 2020 , 257-270		
178	Improvement of UHPFRC-Rheology by Using Circular Shape Memory Alloy Fibres. <i>RILEM Bookseries</i> , 2020 , 142-148	0.5	
177	Effect of δ and β phase particles on the shape memory effect and superelasticity in [0 0 1]-oriented FeNiCoAlTi single crystals. <i>Materials Letters</i> , 2020 , 260, 126932	3.3	5
176	Effect of Friction Stir Processing on Microstructural, Mechanical, and Corrosion Properties of Al-Si12 Additive Manufactured Components. <i>Metals</i> , 2020 , 10, 85	2.3	14
175	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> , 2020 , 51, 1056-1061	2.3	10
174	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 772, 138785	5.3	13
173	Low-cycle fatigue performance of remelted laser powder bed fusion (L-PBF) biomedical Ti25Ta. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 798, 140228	5.3	9
172	Effect of Fibre Material and Fibre Roughness on the Pullout Behaviour of Metallic Micro Fibres Embedded in UHPC. <i>Materials</i> , 2020 , 13,	3.5	8
171	Performance of Thermo-Mechanically Processed AA7075 Alloy at Elevated TemperaturesFrom Microstructure to Mechanical Properties. <i>Metals</i> , 2020 , 10, 884	2.3	16
170	Separation and reclamation of automotive hybrid structures made of metal and fibre-reinforced plastic. <i>Waste Management</i> , 2020 , 115, 74-82	8.6	2
169	Microstructural and mechanical properties of dissimilar nitinol and stainless steel wire joints produced by micro electron beam welding without filler material. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020 , 64, 2159-2168	1.9	0

168	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> , 2020 , 75, 177-191	0.7	11
167	Dynamic Tensile Deformation of High Strength Aluminum Alloys Processed Following Novel Thermomechanical Treatment Strategies. <i>Advanced Engineering Materials</i> , 2020 , 22, 2070033	3.5	1
166	Investigation of residual stresses in polypropylene using hot plate welding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020 , 64, 1671-1680	1.9	2
165	Superelasticity and Shape Memory Effect Under Tension and Compression in the [001]-Oriented Single Crystals of Non-Equiatomic FeNiCoAlTi High-Entropy Alloy. <i>Russian Physics Journal</i> , 2020 , 62, 2296-2305	0.7	1
164	Cyclodextrin as sizing for carbon fibers: new bonding mechanism improves adhesion in carbon fiber reinforced epoxy resin. <i>Heliyon</i> , 2020 , 6, e03766	3.6	2
163	Dynamic Tensile Deformation of High Strength Aluminum Alloys Processed Following Novel Thermomechanical Treatment Strategies. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000193	3.5	7
162	FeMnNiAl Iron-Based Shape Memory Alloy: Promises and Challenges. <i>Shape Memory and Superelasticity</i> , 2019 , 5, 263-277	2.8	22
161	Tailoring the Microstructure in Polycrystalline CoNiTiAl High-Temperature Shape Memory Alloys by Hot Extrusion. <i>Shape Memory and Superelasticity</i> , 2019 , 5, 84-94	2.8	7
160	Impact of Heating/Cooling Rates on the Functional Properties of Ti20Ta5Al High-Temperature Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2019 , 5, 95-105	2.8	1
159	Cyclic deformation response of ultra-fine grained titanium at elevated temperatures. <i>International Journal of Fatigue</i> , 2019 , 122, 228-239	5	8
158	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> , 2019 , 127, 175-189	5	13
157	Influence of Microstructural Features on the Strain Hardening Behavior of Additively Manufactured Metallic Components. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900275	3.5	10
156	Promoting abnormal grain growth in Fe-based shape memory alloys through compositional adjustments. <i>Nature Communications</i> , 2019 , 10, 2337	17.4	40
155	3D hybrid-material processing in selective laser melting: implementation of a selective coating system. <i>Progress in Additive Manufacturing</i> , 2019 , 4, 399-409	5	6
154	Pathways Towards Grain Boundary Engineering for Improved Structural Performance in Polycrystalline CoNiTiAl Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2019 , 5, 73-83	2.8	7
153	On the influence of overloads on the fatigue performance of deep rolled steel SAE 1045. <i>International Journal of Fatigue</i> , 2019 , 126, 221-230	5	7
152	Effect of nanometric η -particles on the stress-induced martensitic transformation in <001>-oriented Co ₄₉ Ni ₂₁ Ga ₃₀ shape memory alloy single crystals. <i>Scripta Materialia</i> , 2019 , 168, 42-46	5.6	5
151	Additive Manufacturing of a Steel/Ceramic Multi-Material by Selective Laser Melting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 1042-1051	2.5	39

150	Influence of Cr Alloying (1.5 to 5 at.%) on Martensitic Phase Transformation Temperatures in Co-Ni-Ga-Cr Thin Films. <i>Shape Memory and Superelasticity</i> , 2019 , 5, 106-112	2.8	1
149	Residual Stress Analysis on Thin Metal Sheets Using the Incremental Hole Drilling Method □ Fundamentals and Validation. <i>Experimental Techniques</i> , 2019 , 43, 65-79	1.4	8
148	Cladded steel for clutch disc carriers. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2019 , 83, 259-268	2.8	1
147	On the Effect of Quenching on Postweld Heat Treatment of Friction-Stir-Welded Aluminum 7075 Alloy. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 5255-5265	1.6	16
146	On the low-cycle fatigue behavior of friction stir welded AlSi12 parts produced by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 764, 138189	5.3	11
145	On the impact of deep rolling at different temperatures on the near surface microstructure and residual stress state of steel AISI 304. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019 , 50, 788-795	0.9	4
144	Impact of the scanning strategy on the mechanical behavior of 316L steel synthesized by selective laser melting. <i>Journal of Manufacturing Processes</i> , 2019 , 45, 255-261	5	46
143	Damage tolerant design by microstructural gradation □ Influence of processing parameters and build orientation on crack growth within additively processed 316L. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 764, 138186	5.3	14
142	On the Evolution of Residual Stresses, Microstructure and Cyclic Performance of High-Manganese Austenitic TWIP-Steel after Deep Rolling. <i>Metals</i> , 2019 , 9, 825	2.3	7
141	Effect of grain size on the very high cycle fatigue behavior and notch sensitivity of titanium. <i>Theoretical and Applied Fracture Mechanics</i> , 2019 , 104, 102362	3.7	12
140	Hochtemperaturlegierungen 2019 , 333-496		
139	A Screening Approach for Rapid Qualitative Evaluation of Residual-Stress States □ Application to Laser-Hardened Microalloyed Steel. <i>HTM - Journal of Heat Treatment and Materials</i> , 2019 , 74, 151-163	0.7	3
138	Shape memory effect and superelasticity in high-strength FeNiCoAlTi single crystals hardened by nanoparticles 2019 ,		1
137	On Nonlinear Empirical Modeling of Residual Stress Profiles in Hard Turning 2019 ,		4
136	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> , 2019 , 121, 219-228	5	11
135	On the microstructural and functional stability of Fe-Mn-Al-Ni at ambient and elevated temperatures. <i>Scripta Materialia</i> , 2019 , 162, 442-446	5.6	24
134	Direct microstructure design by hot extrusion □ High-temperature shape memory alloys with bamboo-like microstructure. <i>Scripta Materialia</i> , 2019 , 162, 127-131	5.6	13
133	Consequences of deep rolling on the fatigue behavior of steel SAE 1045 at high loading amplitudes. <i>International Journal of Fatigue</i> , 2019 , 118, 192-201	5	12

132	In Situ Neutron Diffraction Analyzing Stress-Induced Phase Transformation and Martensite Elasticity in [001]-Oriented Co ₄₉ Ni ₂₁ Ga ₃₀ Shape Memory Alloy Single Crystals. <i>Shape Memory and Superelasticity</i> , 2018 , 4, 61-69	2.8	7
131	A heat treatable TiB ₂ /Al-3.5Cu-1.5Mg-1Si composite fabricated by selective laser melting: Microstructure, heat treatment and mechanical properties. <i>Composites Part B: Engineering</i> , 2018 , 147, 162-168	10	90
130	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> , 2018 , 143, 1-11	8.1	64
129	Design of novel materials for additive manufacturing - Isotropic microstructure and high defect tolerance. <i>Scientific Reports</i> , 2018 , 8, 1298	4.9	51
128	Unexpected cyclic stress-strain response of dual-phase high-entropy alloys induced by partial reversibility of deformation. <i>Scripta Materialia</i> , 2018 , 143, 63-67	5.6	46
127	Magnetic pulse controlled microstructure development in Co ₄₉ Ni ₂₁ Ga ₃₀ single crystals. <i>Materials Science and Technology</i> , 2018 , 34, 1954-1964	1.5	
126	Inline additively manufactured functionally graded multi-materials: microstructural and mechanical characterization of 316L parts with H13 layers. <i>Progress in Additive Manufacturing</i> , 2018 , 3, 221-231	5	21
125	A Novel Approach for Monitoring Plastic Flow Localization during In-Situ Sem Testing of Small-Scale Samples. <i>Experimental Techniques</i> , 2018 , 42, 177-189	1.4	2
124	Effect of Post-Process Machining on Surface Properties of Additively Manufactured H13 Tool Steel. <i>HTM - Journal of Heat Treatment and Materials</i> , 2018 , 73, 173-186	0.7	18
123	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> , 2018 , 49, 2969-2974	2.5	10
122	On the reliability of residual stress measurements in polycarbonate samples by the hole drilling method. <i>Polymer Testing</i> , 2018 , 71, 329-334	4.5	13
121	Martensite aging in <001> oriented Co ₄₉ Ni ₂₁ Ga ₃₀ single crystals in tension. <i>Functional Materials Letters</i> , 2018 , 11, 1850024	1.2	9
120	Cyclic deformation behavior of a damage tolerant CrMnNi TRIP steel produced by electron beam melting. <i>International Journal of Fatigue</i> , 2018 , 114, 262-271	5	17
119	Fatigue life of additively manufactured TiB ₂ /Al-4V in the very high cycle fatigue regime. <i>International Journal of Fatigue</i> , 2017 , 94, 236-245	5	223
118	Analysis of residual stress profiles in plastic materials using the hole drilling method Influence factors and practical aspects. <i>Polymer Testing</i> , 2017 , 59, 29-37	4.5	21
117	Structural components manufactured by Selective Laser Melting and Investment Casting Impact of the process route on the damage mechanism under cyclic loading. <i>Journal of Materials Processing Technology</i> , 2017 , 248, 130-142	5.3	25
116	Corrosion properties of bioresorbable FeMn-Ag alloys prepared by selective laser melting. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2017 , 68, 1028-1036	1.6	26
115	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> , 2017 , 162, 199-202	0.6	10

114	Crashworthiness and numerical simulation of hybrid aluminium-CFRP tubes under axial impact. <i>Thin-Walled Structures</i> , 2017 , 117, 1-9	4.7	85
113	Room temperature superelastic responses of NiTi alloy treated by two distinct thermomechanical processing schemes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 684, 303-311	5.3	17
112	Cyclic Degradation Behavior of (angle 001 angle)-Oriented FeMnAlNi Single Crystals in Tension. <i>Shape Memory and Superelasticity</i> , 2017 , 3, 335-346	2.8	13
111	Time-of-Flight Three Dimensional Neutron Diffraction in Transmission Mode for Mapping Crystal Grain Structures. <i>Scientific Reports</i> , 2017 , 7, 9561	4.9	26
110	Pulsed magnetic field-induced changes in the meso- and nanostructure of Co49Ni21Ga30 martensite. <i>Functional Materials Letters</i> , 2017 , 10, 1750044	1.2	3
109	Duplex stainless steel fabricated by selective laser melting - Microstructural and mechanical properties. <i>Materials and Design</i> , 2017 , 133, 136-142	8.1	80
108	Microstructural evolution and functional fatigue of a Ti-25Ta high-temperature shape memory alloy. <i>Journal of Materials Research</i> , 2017 , 32, 4287-4295	2.5	8
107	Electron beam welding of FeMnAlNi shape memory alloy: Microstructure evolution and shape memory response. <i>Functional Materials Letters</i> , 2017 , 10, 1750043	1.2	10
106	On the effect of titanium on quenching sensitivity and pseudoelastic response in Fe-Mn-Al-Ni-base shape memory alloy. <i>Scripta Materialia</i> , 2017 , 126, 20-23	5.6	39
105	Materials and process engineering aspects of warm deep rolling. <i>International Journal of Microstructure and Materials Properties</i> , 2017 , 12, 230	0.4	3
104	Prozessintegration von induktiver Wärmebehandlung und Festwalzen Sichere und zuverlässige Komponenten mit hoher Schwingfestigkeit. <i>HTM - Journal of Heat Treatment and Materials</i> , 2017 , 72, 10-18	0.7	3
103	Modelling the Constitutive Behaviour of Martensite and Austenite in Shape Memory Alloys Using Closed-Form Analytical Continuous Equations. <i>Computational Methods in Applied Sciences (Springer)</i> , 2017 , 41-66	0.4	1
102	Materials and process engineering aspects of warm deep rolling. <i>International Journal of Microstructure and Materials Properties</i> , 2017 , 12, 230	0.4	2
101	Energy Resolved Residual Stress Analysis with Laboratory X-Ray Sources. <i>HTM - Journal of Heat Treatment and Materials</i> , 2017 , 72, 115-121	0.7	3
100	Bend Straightening of a Carbonitrided Gear Shaft Consequences on Residual Stresses and Retained Austenite near the Surface*. <i>HTM - Journal of Heat Treatment and Materials</i> , 2017 , 72, 145-153	0.7	1
99	Effect of grain size on the superelastic response of a FeMnAlNi polycrystalline shape memory alloy. <i>Scripta Materialia</i> , 2016 , 125, 68-72	5.6	39
98	Superior creep strength of a nickel-based superalloy produced by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 299-307	5.3	116
97	Selektives Laserschmelzen für Leichtbau mit Designfreiheit. <i>Lightweight Design</i> , 2016 , 9, 82-87	0.1	2

96	Cyclic Degradation of Co ₄₉ Ni ₂₁ Ga ₃₀ High-Temperature Shape Memory Alloy: On the Roles of Dislocation Activity and Chemical Order. <i>Shape Memory and Superelasticity</i> , 2016 , 2, 37-49	2.8	20
95	Influence of surface pre-treatments on the high-cycle fatigue behavior of Ti ₆ Al ₄ V. From anodizing to laser-assisted techniques. <i>International Journal of Fatigue</i> , 2016 , 91, 195-203	5	11
94	Cyclic degradation in bamboo-like Fe ₄₉ Mn ₂₁ Al ₃₀ Ni shape memory alloys. The role of grain orientation. <i>Scripta Materialia</i> , 2016 , 114, 156-160	5.6	46
93	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> , 2016 , 1, 141-151	5	58
92	On the microstructural and mechanical properties of post-treated additively manufactured Inconel 718 superalloy under quasi-static and cyclic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 669, 246-258	5.3	130
91	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> , 2016 , 47, 2569-2573	2.3	30
90	Labelling additively manufactured parts by microstructural gradation. Advanced copy-proof design. <i>Rapid Prototyping Journal</i> , 2016 , 22, 630-635	3.8	11
89	Martensite aging. A venue to new high temperature shape memory alloys. <i>Acta Materialia</i> , 2015 , 89, 298-304	8.4	45
88	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> , 2015 , 46, 545-549	2.5	102
87	Martensite stabilization in shape memory alloys. Experimental evidence for short-range ordering. <i>Materials Letters</i> , 2015 , 159, 16-19	3.3	31
86	On the effect of gamma phase formation on the pseudoelastic performance of polycrystalline Fe ₄₉ Mn ₂₁ Al ₃₀ Ni shape memory alloys. <i>Scripta Materialia</i> , 2015 , 108, 23-26	5.6	68
85	Fatigue Strength Prediction for Titanium Alloy TiAl ₆ V ₄ Manufactured by Selective Laser Melting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 3816-3823	2.3	84
84	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> , 2015 , 46, 3199-3207	2.3	18
83	Functional Fatigue and Tension-Compression Asymmetry in [001]-Oriented Co ₄₉ Ni ₂₁ Ga ₃₀ High-Temperature Shape Memory Alloy Single Crystals. <i>Shape Memory and Superelasticity</i> , 2015 , 1, 6-17	2.8	30
82	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> , 2015 , 46, 2829-2833	2.3	39
81	Handbuch Hochtemperatur-Werkstofftechnik 2015 ,		13
80	Functional and structural fatigue of titanium tantalum high temperature shape memory alloys (HT SMAs). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 620, 359-366	5.3	29
79	Property Optimization for TWIP Steels. Effect of Pre-deformation Temperature on Fatigue Properties. <i>Materials Today: Proceedings</i> , 2015 , 2, S681-S685	1.4	5

78	Cyclic degradation of titanium–tantalum high-temperature shape memory alloys – The role of dislocation activity and chemical decomposition. <i>Functional Materials Letters</i> , 2015 , 08, 1550062	1.2	8
77	Functional encapsulation of laser melted Inconel 718 by Arc-PVD and HVOF for post compacting by hot isostatic pressing. <i>Powder Metallurgy</i> , 2015 , 58, 259-264	1.9	17
76	Damage evolution in pseudoelastic polycrystalline Co–Ni–Ti high-temperature shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 633, 288-295	5.7	31
75	Cyclic degradation mechanisms in aged FeNiCoAlTi shape memory single crystals. <i>Acta Materialia</i> , 2014 , 79, 126-137	8.4	45
74	Influence of precipitates on low-cycle fatigue and crack growth behavior in an ultrafine-grained aluminum alloy. <i>Acta Materialia</i> , 2014 , 80, 250-263	8.4	41
73	On the fatigue properties of metals manufactured by selective laser melting – The role of ductility. <i>Journal of Materials Research</i> , 2014 , 29, 1911-1919	2.5	170
72	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> , 2014 , 45, 1181-1185	2.5	57
71	On the functional degradation of binary titanium–tantalum high-temperature shape memory alloys – A new concept for fatigue life extension. <i>Functional Materials Letters</i> , 2014 , 07, 1450042	1.2	15
70	Low-Cycle Fatigue Behavior of TWIP Steel - Effect of Grain Size. <i>Advanced Materials Research</i> , 2014 , 891-892, 1603-1608	0.5	4
69	Functionally Graded Alloys Obtained by Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2014 , 16, 857-861	3.5	77
68	Hochfeste Strukturkomponenten mittels Kryoformen. <i>ATZ Automobiltechnische Zeitschrift</i> , 2014 , 116, 38-43	0.1	
67	High-strength Structural Components by Cryo-forming. <i>ATZ Worldwide</i> , 2014 , 116, 24-27	0.1	
66	Thermal cycling behavior of an aged FeNiCoAlTi single-crystal shape memory alloy. <i>Scripta Materialia</i> , 2014 , 81, 28-31	5.6	24
65	On the fatigue crack growth behavior in 316L stainless steel manufactured by selective laser melting. <i>Engineering Fracture Mechanics</i> , 2014 , 120, 15-25	4.2	370
64	Highly Anisotropic Steel Processed by Selective Laser Melting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2013 , 44, 794-796	2.5	289
63	The Deformation Behavior of Functionally Graded TWIP Steel under Monotonic Loading at Ambient Temperature. <i>Materials Research Letters</i> , 2013 , 1, 96-101	7.4	7
62	Inconel 939 processed by selective laser melting: Effect of microstructure and temperature on the mechanical properties under static and cyclic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 588, 188-195	5.3	151
61	Surface strain evolution of ultrafine-grained aluminum alloy laminates under tension – Microscale plastic instabilities and the Portevin–Le Chatelier effect. <i>Scripta Materialia</i> , 2013 , 68, 809-812	5.6	9

60	Steel showing twinning-induced plasticity processed by selective laser melting [An additively manufactured high performance material. <i>Materials Characterization</i> , 2013 , 85, 57-63	3.9	40
59	Growth of cubic GaN on 3C-BiC/Si (001) nanostructures. <i>Journal of Crystal Growth</i> , 2013 , 378, 291-294	1.6	9
58	Failure Stress of Epitaxial Silicon Thin Films. <i>Energy Procedia</i> , 2013 , 38, 926-932	2.3	3
57	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 & Design</i> , 2013 , 47, 138-142		10
56	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> , 2013 , 48, 300-307	5	822
55	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> , 2013 , 213, 1558-1564	5.3	118
54	In-situ characterization of the damage evolution in thin polyelectrolyte films on TWIP steel substrates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 566, 82-89	5.3	5
53	Surface hardening of biocompatible ultrafine-grained niobium zirconium alloy by two-stage oxidation treatment. <i>Journal of Materials Science</i> , 2013 , 48, 4549-4556	4.3	3
52	Tension - Compression Asymmetry in Co ₄₉ Ni ₂₁ Ga ₃₀ High-Temperature Shape Memory Alloy Single Crystals. <i>Materials Science Forum</i> , 2013 , 738-739, 82-86	0.4	9
51	Anisotropy of ultrafine-grained alloys under impact loading: The case of biomedical niobium-zirconium. <i>Scripta Materialia</i> , 2012 , 66, 435-438	5.6	14
50	Corrosion fatigue behavior of a biocompatible ultrafine-grained niobium alloy in simulated body fluid. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 5, 181-92	4.1	49
49	Formability of thermally cured and of nanoclay-reinforced polyelectrolyte films on NiTi substrates. <i>Journal of Materials Science</i> , 2012 , 47, 151-161	4.3	5
48	Microstructure Deformation relationships in fine grained high manganese TWIP steel The role of local texture. <i>International Journal of Materials Research</i> , 2012 , 103, 12-16	0.5	8
47	Microstructural stability of ultrafine-grained niobium-zirconium alloy at elevated temperatures. <i>Journal of Alloys and Compounds</i> , 2012 , 517, 61-68	5.7	11
46	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> , 2012 , 67, 875-878	5.6	14
45	Martensitic Transformation in Ultrafine-Grained Stainless Steel AISI 304L Under Monotonic and Cyclic Loading. <i>Metals</i> , 2012 , 2, 56-64	2.3	10
44	Formation of defects in cubic GaN grown on nano-patterned 3C-SiC (001). <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 1028-1031		4
43	Multi-phase microstructure design of a low-alloy TRIP-assisted steel through a combined computational and experimental methodology. <i>Acta Materialia</i> , 2012 , 60, 3022-3033	8.4	56

42	On the low-cycle fatigue response of pre-strained austenitic Fe61Mn24Ni6.5Cr8.5 alloy showing TWIP effect. <i>International Journal of Fatigue</i> , 2012 , 40, 51-60	5	51
41	The Role of Notches on Fatigue Life of TWIP Steel in the HCF Regime. <i>Materials Science Forum</i> , 2012 , 706-709, 2205-2210	0.4	5
40	CYCLIC DEFORMATION BEHAVIOR OF AGED FeNiCoAlTa SINGLE CRYSTALS. <i>Functional Materials Letters</i> , 2012 , 05, 1250045	1.2	25
39	In situ characterization of the deformation and failure behavior of non-stochastic porous structures processed by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7962-7967	5.3	146
38	In situ characterization of martensite variant formation in nickel-titanium shape memory alloy under biaxial loading. <i>Scripta Materialia</i> , 2011 , 65, 915-918	5.6	16
37	High-resolution in-situ characterization of the surface evolution of a polycrystalline NiTi SMA-alloy under pseudoelastic deformation. <i>Materials Characterization</i> , 2011 , 62, 298-303	3.9	22
36	Superior fatigue crack growth resistance, irreversibility, and fatigue crack growth-microstructure relationship of nanocrystalline alloys. <i>Acta Materialia</i> , 2011 , 59, 7340-7355	8.4	53
35	Effect of internal oxidation on wear behavior of ultrafine-grained NbZr. <i>Acta Materialia</i> , 2011 , 59, 7683-7694	7.4	28
34	Experimental and Numerical Investigation of the Role of Grain Boundary Misorientation Angle on the Dislocation-Grain Boundary Interactions. <i>Advanced Engineering Materials</i> , 2011 , 13, 281-287	3.5	24
33	Fatigue Damage Evolution in Ultrafine-Grained Interstitial-Free Steel. <i>Advanced Engineering Materials</i> , 2011 , 13, 275-280	3.5	8
32	A comprehensive evaluation of parameters governing the cyclic stability of ultrafine-grained FCC alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 6345-6355	5.3	14
31	Anti-phase domains in cubic GaN. <i>Journal of Applied Physics</i> , 2011 , 110, 123512	2.5	24
30	Handbuch Hochtemperatur- Werkstofftechnik 2011 ,		68
29	On the Fatigue Crack Growth in High-Manganese Austenitic TWIP Steel - Influence of the Microstructure 2010 , 55-66		3
28	Grain boundary characterization and energetics of superalloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 7115-7125	5.3	73
27	On the fatigue crack growth-microstructure relationship in ultrafine-grained interstitial-free steel. <i>Journal of Materials Science</i> , 2010 , 45, 4813-4821	4.3	50
26	On the coupled temperature-strain rate sensitivity of ultrafine-grained interstitial-free steel. <i>Scripta Materialia</i> , 2010 , 63, 544-547	5.6	5
25	Cyclic behavior and microstructural stability of ultrafine-grained AA6060 under strain-controlled fatigue. <i>Procedia Engineering</i> , 2010 , 2, 2199-2208		9

24	Three-dimensional modeling of the grain boundary misorientation angle distribution based on two-dimensional experimental texture measurements. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5604-5612	5.3	18
23	Fatigue crack growthMicrostructure relationships in a high-manganese austenitic TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 2412-2417	5.3	72
22	Charakterisierung der Schädigungsentwicklung in ultrafeinkörnigem IF Stahl mittels digitaler Bildkorrelation*. <i>Materialprüfung/Materials Testing</i> , 2010 , 52, 27-35	1.9	1
21	The role of grain size and distribution on the cyclic stability of titanium. <i>Scripta Materialia</i> , 2009 , 60, 344-347	3.67	27
20	Cyclic stability of ultrafine-grained interstitial-free steel at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 503, 160-162	5.3	13
19	Monitoring the fatigue-induced damage evolution in ultrafine-grained interstitial-free steel utilizing digital image correlation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 517, 225-234	5.3	38
18	The role of monotonic pre-deformation on the fatigue performance of a high-manganese austenitic TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 499, 518-524	5.3	101
17	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> , 2009 , 100, 603-608	0.5	14
16	Improvement of the fatigue performance of an ultrafine-grained NbZr alloy by nano-sized precipitates formed by internal oxidation. <i>Scripta Materialia</i> , 2008 , 58, 571-574	5.6	22
15	The Effect of Texture on the Fatigue Properties of Ultrafine-Grained Interstitial-Free Steel. <i>Materials Science Forum</i> , 2008 , 584-586, 864-869	0.4	2
14	On the Cyclic Stability and Fatigue Performance of Ultrafine-Grained Interstitial-Free Steel under Mean Stress. <i>Key Engineering Materials</i> , 2008 , 378-379, 39-52	0.4	9
13	The role of heat treatment on the cyclic stress-strain response of ultrafine-grained interstitial-free steel. <i>International Journal of Fatigue</i> , 2008 , 30, 426-436	5	42
12	Microstructuremechanical property relationships in ultrafine-grained NbZr. <i>Acta Materialia</i> , 2007 , 55, 6596-6605	8.4	47
11	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> , 2007 , 38, 1946-1955	2.3	45
10	On the fatigue behavior of ultrafine-grained interstitial-free steel. <i>International Journal of Materials Research</i> , 2006 , 97, 1328-1336	0.5	49
9	Application and potential of shape memory alloys for dowel-type connections in timber structures. <i>Wood Material Science and Engineering</i> , 2006 , 1-12	1.9	1
8	Processing effects on tensile superelastic behaviour of Fe _{43.5} Mn ₃₄ Al ₁₅ - XNi _{7.5} X shape memory alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2006 , 591, 012026	0.4	
7	Laser Metal Deposition of Fe- and Co-Based Shape-Memory Alloys. <i>Advanced Materials Research</i> , 2006 , 1161, 105-112	0.5	1

6	Enhanced corrosion resistance of adhesive/galvanised steel interfaces by nanocrystalline ZnO thin film deposition and molecular adhesion promoting films1-21		3
5	Laser Beam Melting of H13 Tool Steel: From the Evolution of Microstructure to Process Simulation. <i>SSRN Electronic Journal</i> ,	1	1
4	On the Impact of Additive Manufacturing Processes on the Microstructure and Magnetic Properties of CoNiTi Shape Memory Heusler Alloys. <i>Advanced Engineering Materials</i> ,2200069	3.5	3
3	Residual stresses in ultrafine-grained laminated metal composites analyzed by X-ray diffraction and the hole drilling method. <i>Advanced Engineering Materials</i> ,	3.5	1
2	Assessment and Validation of Incremental Hole-Drilling Calculation Methods for Residual Stress Determination in Fiber-Metal Laminates. <i>Experimental Mechanics</i> ,1	2.6	1
1	On the Friction Stir Processing of Additive-Manufactured 316L Stainless Steel. <i>Advanced Engineering Materials</i> ,2200384	3.5	1