

# Horst Biermann

## List of Publications by Year in descending order

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253  
papers

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147726

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262  
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262  
docs citations

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times ranked

2460  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of elevated temperature and reduced pressure on the degradation of iron nitride compound layer formed by plasma nitriding in <sc>AISI D2</sc> tool steels. Engineering Reports, 2022, 4, e12371.	0.9	0
2	Effect of nitriding pre-treatment on the tribocorrosion behavior of physical vapor deposition-coated tool steel. Engineering Reports, 2022, 4, e12382.	0.9	0
3	Sliding wear behavior of duplex coatings with different plasma nitride layers and a <sc>Cr-Al-Ti-B-N</sc> coating. Engineering Reports, 2022, 4, e12377.	0.9	4
4	Tailoring Nonmetallic Inclusions in 42CrMo4 as a Preparative Tool for Active and Reactive Steel Melt Filtration. Advanced Engineering Materials, 2022, 24, 2100640.	1.6	8
5	Manufacture of carbon-bonded alumina based on a lactose-tannin binder system via slip casting. Ceramics International, 2022, 48, 148-156.	2.3	9
6	Experimental and Numerical Investigation of High-Temperature Multi-Axial Fatigue. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	0.5	1
7	Deformation behaviour of TWIP steels: Constitutive modelling informed by local and integral experimental methods used in concert. Materials Characterization, 2022, 184, 111667.	1.9	9
8	Deformation Lenses in a Bonding Zone of High-Alloyed Steel Laminates Manufactured by Cold Roll Bonding. Metals, 2022, 12, 590.	1.0	0
9	Microstructural evolution of the bonding zone in TRIP-TWIP laminate produced by accumulative roll bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142866.	2.6	5
10	Non-cube-on-cube orientation relationship between M23C6 and austenite in an austenitic stainless steel. Scripta Materialia, 2022, 213, 114597.	2.6	11
11	Planar-biaxial low-cycle fatigue behavior of the nickel-base alloy Inconel 718 at elevated temperatures under selected loading conditions. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 1571-1586.	1.7	1
12	Effect of N <sub>2</sub> /H <sub>2</sub> Ratio during Conventional Plasma Nitriding of Intermetallic FeAl40 Alloy on Electrochemical Corrosion Parameters in Sulphuric Acid. Metals, 2022, 12, 649.	1.0	1
13	Nitriding behaviour of the intermetallic alloy FeAl. International Journal of Materials Research, 2022, 96, 781-786.	0.1	1
14	High-Temperature Ternary Oxide Phases in Tantalum/Niobium-Alumina Composite Materials. Advanced Engineering Materials, 2022, 24, .	1.6	6
15	High-Temperature Compressive Behavior of Refractory Alumina-Niobium Composite Material. Advanced Engineering Materials, 2022, 24, .	1.6	8
16	Coarse-Grained Refractory Composite Castables Based on Alumina and Niobium. Advanced Engineering Materials, 2022, 24, .	1.6	7
17	Novel method for in situ damage monitoring during ultrasonic fatigue testing by the advanced acoustic emission technique. International Journal of Fatigue, 2021, 142, 105918.	2.8	18
18	Ultrafine-grained CrMnNi steels: Lueders phenomenon and texture inheritance. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 799, 140197.	2.6	9

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19	Fatigue of carburised CrNiMo steel: Testing and modelling concept. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 788-804.	1.7	5
20	Manufacturing Fe-TiC Composite Powder via Inert Gas Atomization by Forming Reinforcement Phase In Situ. Advanced Engineering Materials, 2021, 23, 2000717.	1.6	10
21	Effect of Nitriding Potential KN on the Formation and Growth of a "White Layer" on Iron Aluminide Alloy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 414-424.	1.0	10
22	The role of grain size in static and cyclic deformation behaviour of a laser reversion annealed metastable austenitic steel. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 43-62.	1.7	5
23	Review on Strain Localization Phenomena Studied by High-Resolution Digital Image Correlation. Advanced Engineering Materials, 2021, 23, 2001409.	1.6	19
24	Impact of high temperature on the compression behavior of carbon-bonded alumina filters with functionalized coatings. Ceramics International, 2021, 47, 3920-3927.	2.3	5
25	Review on Strain Localization Phenomena Studied by High-Resolution Digital Image Correlation. Advanced Engineering Materials, 2021, 23, 2170011.	1.6	13
26	Aluminum-alloyed lightweight stainless steels strengthened by B2-(Ni,Fe)Al precipitates. Materials and Design, 2021, 206, 109813.	3.3	6
27	Effects of Plasma-Chemical Composition on AISI 316L Surface Modification by Active Screen Nitrocarburizing Using Gaseous and Solid Carbon Precursors. Metals, 2021, 11, 1411.	1.0	6
28	In situ characterization of the functional degradation of a <math>100</math>-oriented Fe-Mn-Al-Ni single crystal under compression using acoustic emission measurements. Acta Materialia, 2021, 220, 117333.	3.8	10
29	Acoustic emission measurements on metastable austenitic steel oligocrystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 827, 142066.	2.6	4
30	Direct tuning of the microstructural and mechanical properties of high-alloy austenitic steel by electron beam melting. Additive Manufacturing, 2021, 47, 102253.	1.7	1
31	The fatigue life of 42CrMo4 steel in the range of HCF to VHCF at elevated temperatures up to 773 K. International Journal of Fatigue, 2021, 152, 106437.	2.8	3
32	Very High Cycle Fatigue Investigations on the Fatigue Strength of Additive Manufactured and Conventionally Wrought Inconel 718 at 873 K. Metals, 2021, 11, 1682.	1.0	9
33	Influence of Oxygen Admixture on Plasma Nitrocarburizing Process and Monitoring of an Active Screen Plasma Treatment. Applied Sciences (Switzerland), 2021, 11, 9918.	1.3	4
34	Synthesis of Niobium-Alumina Composite Aggregates and Their Application in Coarse-Grained Refractory Ceramic-Metal Castables. Materials, 2021, 14, 6453.	1.3	11
35	Influence of C and N on Strain-Induced Martensite Formation in Fe-15Cr-7Mn-4Ni-0.5Si Austenitic Steel. Materials, 2021, 14, 6502.	1.3	7
36	Cyclic Crack Growth in Chemically Tailored Isotropic Austenitic Steel Processed by Electron Beam Powder Bed Fusion. Materials, 2021, 14, 6544.	1.3	0

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37	Influence of Carbon Nanotubes-Based Coatings on the High-Temperature Compression Strength of Al <sub>2</sub> O <sub>3</sub> Foam Filter Structures. <i>Advanced Engineering Materials</i> , 2020, 22, 1900423.	1.6	3
38	Effect of Filter Functional Coating on Detrimental Nonmetallic Inclusions in 42CrMo4 Steel and Its Resulting Mechanical Properties. <i>Advanced Engineering Materials</i> , 2020, 22, 1900540.	1.6	8
39	Influence of the local degree of deformation on the temperature dependent fatigue behaviour of a ferritic-pearlitic steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 2786-2799.	1.7	0
40	Influence of the Active Screen Plasma Power during Afterglow Nitrocarburizing on the Surface Modification of AISI 316L. <i>Coatings</i> , 2020, 10, 1112.	1.2	9
41	Modeling of the cyclic deformation behavior of austenitic TRIP-steels. <i>International Journal of Plasticity</i> , 2020, 133, 102792.	4.1	13
42	Recycling of carbon fiber composites in carbon-bonded alumina refractories. <i>Ceramics International</i> , 2020, 46, 12574-12583.	2.3	9
43	Impact of Al addition on deformation behavior of Fe-Cr-Ni-Mn-C austenitic stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 797, 140084.	2.6	11
44	Neutron diffraction analysis of stress and strain partitioning in a two-phase microstructure with parallel-aligned phases. <i>Scientific Reports</i> , 2020, 10, 13536.	1.6	3
45	Ultrasonic fatigue testing of cast steel G42CrMo4 at elevated temperatures. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 2455-2475.	1.7	11
46	Determining the Damage and Failure Behaviour of Textile Reinforced Composites under Combined In-Plane and Out-of-Plane Loading. <i>Materials</i> , 2020, 13, 4772.	1.3	4
47	On the formation of ridges and burnished debris along internal fatigue crack propagation in 42CrMo4 steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 1567-1582.	1.7	6
48	Microstructural and Mechanical Characterization of Square-Celled TRIP Steel Honeycomb Structures Produced by Electron Beam Melting. <i>Advanced Engineering Materials</i> , 2020, 22, 2000037.	1.6	5
49	Microstructural and mechanical characterization of high-alloy quenching and partitioning TRIP steel manufactured by electron beam melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 794, 139684.	2.6	9
50	Solid carbon active screen plasma nitrocarburizing of AISI 316L stainless steel in cold wall reactor: influence of plasma conditions. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9195-9205.	2.6	23
51	Spectroscopic study of plasma nitrocarburizing processes with an industrial-scale carbon active screen. <i>Plasma Sources Science and Technology</i> , 2020, 29, 035001.	1.3	12
52	Crack growth behaviour in biaxial stress fields: Calculation of K-factors for cruciform specimens. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 107, 102521.	2.1	7
53	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.	0.9	12
54	Scanning Electron Microscopy and Complementary In Situ Characterization Techniques for Characterization of Deformation and Damage Processes. <i>Springer Series in Materials Science</i> , 2020, , 485-527.	0.4	1

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55	Cyclic Deformation and Fatigue Behavior of Metastable Austenitic Steels and Steel-Matrix-Composites. Springer Series in Materials Science, 2020, , 413-449.	0.4	0
56	Behaviour of Metastable and Stable Austenitic Stainless Steels Under Planar-Biaxial Load. Springer Series in Materials Science, 2020, , 451-483.	0.4	0
57	Electron Beam Technologies for the Joining of High Alloy TRIP/TWIP Steels and Steel-Matrix Composites. Springer Series in Materials Science, 2020, , 283-323.	0.4	0
58	Plasma Nitrocarburizing of AISI 316L Austenitic Stainless Steel: a First Step for Treatment of Components with Complex Geometries. HTM - Journal of Heat Treatment and Materials, 2020, 75, 95-112.	0.1	2
59	Plasma Nitrocarburizing of AISI 316L Austenitic Stainless Steel: a First Step for Treatment of Components with Complex Geometries. HTM - Journal of Heat Treatment and Materials, 2020, 75, 95-112.	0.1	0
60	Quality of dissimilar welded particle-reinforced TRIP/TWIP steels generated by electron beam braze-welding. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 1655-1667.	1.3	1
61	Martensite formation during tensile deformation of high-alloy TRIP steel after quenching and partitioning route investigated by digital image correlation. Materialia, 2019, 8, 100498.	1.3	13
62	Tempering Reactions and Elemental Redistribution During Tempering of Martensitic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3663-3673.	1.1	12
63	Electron beam welding of CrMnNi-steels: CFD-modeling with temperature sensitive thermophysical properties. International Journal of Heat and Mass Transfer, 2019, 139, 442-455.	2.5	18
64	TRIPâ€Matrixâ€Composites. Advanced Engineering Materials, 2019, 21, 1900126.	1.6	2
65	Evaluation of very high cycle fatigue zones in 42CrMo4 steel with plate-like alumina inclusions. International Journal of Fatigue, 2019, 126, 258-269.	2.8	13
66	Laminated TRIP/TWIP Steel Composites Produced by Roll Bonding. Metals, 2019, 9, 195.	1.0	8
67	Strain Hardening of Phases in Highâ€Alloy CrMnNi Steel as a Consequence of Preâ€Deformation Studied by Nanoindentation. Advanced Engineering Materials, 2019, 21, 1800801.	1.6	7
68	Electron Beam Welding and Characterization of Dissimilar Joints with TWIP Matrix Composites. Advanced Engineering Materials, 2019, 21, 1800586.	1.6	5
69	Investigation of fatigue crack growth under in-phase loading as well as phase-shifted loading using cruciform specimens. International Journal of Fatigue, 2019, 124, 595-617.	2.8	15
70	Cruciform specimens for the determination of crack growth behaviour in biaxial stress fields: calculation of K-factors. MATEC Web of Conferences, 2019, 300, 11008.	0.1	0
71	Mechanical High-Temperature Properties and Damage Behavior of Coarse-Grained Alumina Refractory Metal Composites. Materials, 2019, 12, 3927.	1.3	13
72	Thermal Analysis of the Formation and Dissolution of Crâ€Rich Carbides in Alâ€Alloyed Stainless Steels. Advanced Engineering Materials, 2019, 21, 1800658.	1.6	8

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73	Numerical Simulation of the Particle Displacement during Electron Beam Welding of a Dissimilar Weld Joint with TRIP-Matrix-Composite. <i>Advanced Engineering Materials</i> , 2019, 21, 1800741.	1.6	3
74	Fatigue Crack Growth in Austenitic Stainless Steel: Effects of Phase Shifted Loading and Crack Paths. <i>Advanced Engineering Materials</i> , 2019, 21, 1800861.	1.6	6
75	Characterization of Nonmetallic Inclusions in 18CrNiMo7-6. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 337-356.	1.0	7
76	Solid carbon active screen plasma nitrocarburizing of AISI 316L stainless steel: Influence of N <sub>2</sub> -H <sub>2</sub> gas composition on structure and properties of expanded austenite. <i>Surface and Coatings Technology</i> , 2019, 357, 1060-1068.	2.2	27
77	Cyclic Deformation Behavior of an Ultra-High Strength Austenitic-Martensitic Steel Treated by Novel Q&P Processing. <i>Advanced Engineering Materials</i> , 2019, 21, 1800732.	1.6	4
78	Validation of an experimental-numerical approach for the high temperature behaviour of open-cell ceramic foams. <i>Journal of the European Ceramic Society</i> , 2019, 39, 610-617.	2.8	8
79	Cruciform specimens used for determination of the influence of T-stress on fatigue crack growth with overloads on aluminum alloy Al 6061 T651. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 135-143.	0.5	1
80	Comparative Studies on Electron Beam and Laser Beam Welding of QT-Steel and Structural Steel. <i>HTM - Journal of Heat Treatment and Materials</i> , 2019, 74, 331-341.	0.1	1
81	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.	3.3	98
82	Design of novel materials for additive manufacturing - Isotropic microstructure and high defect tolerance. <i>Scientific Reports</i> , 2018, 8, 1298.	1.6	76
83	The influence of the nitrogen/nickel-ratio on the cyclic behavior of austenitic high strength steels with twinning-induced plasticity and transformation-induced plasticity effects. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2018, 49, 61-72.	0.5	3
84	Use of a solid carbon precursor for DC plasma nitrocarburizing of AISI 4140 steel. <i>Vacuum</i> , 2018, 149, 146-149.	1.6	13
85	Investigation of cracking prevention in magnetron-sputtered TiAlN coatings during subsequent electron beam hardening. <i>Surface and Coatings Technology</i> , 2018, 338, 75-83.	2.2	5
86	On the identification of an effective cross section for a cruciform specimen. <i>Strain</i> , 2018, 54, e12257.	1.4	8
87	Influence of particle and short-fibre reinforcement on the very high cycle fatigue behaviour of aluminium matrix composites. <i>International Journal of Fatigue</i> , 2018, 113, 299-310.	2.8	9
88	Fatigue behavior of an ultrafine-grained metastable CrMnNi steel tested under total strain control. <i>International Journal of Fatigue</i> , 2018, 106, 143-152.	2.8	19
89	Development of a novel testing device for fabric reinforced carbon fibre composites under cyclic biaxial load applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 388, 012019.	0.3	0
90	Very high cycle fatigue behaviour of 42CrMo4 steel with plate-like alumina inclusions. <i>Procedia Structural Integrity</i> , 2018, 13, 2071-2076.	0.3	2

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91	On the Potential of Using the Small Punch Test for the Characterization of SMA Behavior Under Multi-Axial Loading Conditions. , 2018, , .		0
92	Influence of ceramic particles and fibre reinforcement in metal matrix composites on the VHCF behaviour. Part II: Stochastic modelling and statistical inference. , 2018, , 319-342.		0
93	Joining of TWIP-matrix composites by electron beam brazing. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2018, 62, 19-27.	1.3	2
94	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.	2.8	24
95	Cluster Detection of Non-Metallic Inclusions in 42CrMo4 Steel. <i>Steel Research International</i> , 2018, 89, 1800216.	1.0	11
96	Spectroscopic investigations of plasma nitrocarburizing processes using an active screen made of carbon in a model reactor. <i>Plasma Sources Science and Technology</i> , 2018, 27, 075017.	1.3	10
97	On the influence of carbon contamination of reactor parts in active screen plasma nitrocarburizing processes. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	9
98	Study of Deformation Phenomena in TRIP/TWIP Steels by Acoustic Emission and Scanning Electron Microscopy. <i>Physics of Metals and Metallography</i> , 2018, 119, 388-395.	0.3	14
99	Influence of Si addition on the carbon partitioning process in martensitic-austenitic stainless steels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 373, 012001.	0.3	6
100	On the origin of subgrain boundaries during conventional solidification of austenitic stainless steels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 373, 012005.	0.3	10
101	Plasma Nitrocarburizing of AISI 316L Austenitic Stainless Steel Applying a Carbon Active Screen: Status and Perspectives. <i>HTM - Journal of Heat Treatment and Materials</i> , 2018, 73, 246-257.	0.1	8
102	Fracture mechanics testing and crack growth simulation of highly ductile austenitic steel. <i>Materialpruefung/Materials Testing</i> , 2018, 60, 341-348.	0.8	7
103	Spectroscopic investigations of plasma nitriding processes using an active screen made of carbon in a model reactor. , 2018, , .		0
104	Fatigue life of additively manufactured Ti-6Al-4V in the very high cycle fatigue regime. <i>International Journal of Fatigue</i> , 2017, 94, 236-245.	2.8	321
105	Tensile elongation of lean-alloy austenitic stainless steels: Transformation-induced plasticity versus planar glide. <i>Materials Science and Technology</i> , 2017, 33, 1224-1230.	0.8	10
106	Spectroscopic investigations of plasma nitriding processes: A comparative study using steel and carbon as active screen materials. <i>Journal of Applied Physics</i> , 2017, 121, 153301.	1.1	23
107	Prediction of High Temperature Behavior of Open-Cell Ceramic Foams Using an Experimental-Numerical Approach. <i>Advanced Engineering Materials</i> , 2017, 19, 1700082.	1.6	4
108	Fatigue behaviour of 16Mo3 steel at elevated temperatures under uniaxial as well as biaxial-planar loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 909-923.	1.7	6



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109	Ductile behavior of fine-grained, carbon-bonded materials at elevated temperatures. Carbon, 2017, 122, 141-149.	5.4	21
110	Impact of Nanoengineered Surfaces of Carbon-Bonded Alumina Filters on Steel Cleanliness. Advanced Engineering Materials, 2017, 19, 1700153.	1.6	13
111	Effect of Crucible Material for Ingot Casting on Detrimental Non-Metallic Inclusions and the Resulting Mechanical Properties of 18CrNiMo7-6 Steel. Advanced Engineering Materials, 2017, 19, 1700199.	1.6	14
112	Isothermal and thermo-mechanical fatigue behavior of 16Mo3 steel coated with high-velocity oxy-fuel sprayed nickel-base alloy under uniaxial as well as biaxial-planar loading. Journal of Materials Research, 2017, 32, 4411-4423.	1.2	7
113	Dilatometry Analysis of Dissolution of Cr-Rich Carbides in Martensitic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5771-5777.	1.1	19
114	Cyclic Degradation Behavior of $\langle 001 \rangle$ -Oriented Fe-Mn-Al-Ni Single Crystals in Tension. Shape Memory and Superelasticity, 2017, 3, 335-346.	1.1	22
115	A new method for manufacturing graded refractories by localized hot uniaxial pressing. Ceramics International, 2017, 43, 14636-14641.	2.3	3
116	Crack initiation in the very high cycle fatigue regime of nitrided 42CrMo4 steel. Journal of Materials Research, 2017, 32, 4305-4316.	1.2	13
117	Electron beam welding of Fe-Mn-Al-Ni shape memory alloy: Microstructure evolution and shape memory response. Functional Materials Letters, 2017, 10, 1750043.	0.7	14
118	Spectroscopic investigations of plasma nitriding processes: A comparative study using steel and carbon as active screen materials. , 2017, , .		0
119	Investigations of Electron Beam Hardening on TiAlN Coated Heat-Treatable Steel. Materials Performance and Characterization, 2017, 6, 850-859.	0.2	1
120	A Novel Approach of Plasma Nitrocarburizing Using a Solid Carbon Active Screen - a Proof of Concept. HTM - Journal of Heat Treatment and Materials, 2017, 72, 254-259.	0.1	19
121	Electron Beam Welding of Cold Rolled High-Alloy TRIP/TWIP Steel Sheets. Steel Research International, 2016, 87, 436-444.	1.0	13
122	Application of a Modified Stress-Strain Approach for the Fatigue-Life Prediction of a Ferritic, an Austenitic and a Ferritic-Austenitic Duplex Steel under Isothermal and Thermo-Mechanical Fatigue. Steel Research International, 2016, 87, 1095-1104.	1.0	3
123	Tensile Behavior of Cast and Electron Beam Welded Interstitially Strengthened High-Alloy TRIP Steel. Steel Research International, 2016, 87, 1627-1637.	1.0	2
124	High-Temperature Compression Deformation Behavior of Fine-Grained Carbon-Bonded Alumina. Journal of the American Ceramic Society, 2016, 99, 1390-1397.	1.9	14
125	Microstructure of Non-Metallic Inclusions Identified in Cast Steel 42CrMo4 after Metal Melt Filtration by Novel Foam Filters. Steel Research International, 2016, 87, 1038-1053.	1.0	12
126	The influence of dilution on dissimilar weld joints with high-alloy TRIP/TWIP steels. Welding in the World, Le Soudage Dans Le Monde, 2016, 60, 645-652.	1.3	19



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127	Decomposition and Precipitation Process During Thermo-mechanical Fatigue of Duplex Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2112-2124.	1.1	6
128	Microstructural Evolution and Functional Properties of Fe-Mn-Al-Ni Shape Memory Alloy Processed by Selective Laser Melting. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2569-2573.	1.1	50
129	Volumetric changes associated with B2-(Ni,Fe)Al dissolution in an Al-alloyed ferritic steel. Materials and Design, 2016, 111, 640-645.	3.3	12
130	Investigation of isothermal and thermo-mechanical fatigue behavior of the nickel-base superalloy IN738LC using standardized and advanced test methods. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 670, 314-324.	2.6	28
131	Small-scale specimen testing for fatigue life assessment of service-exposed industrial gas turbine blades. International Journal of Fatigue, 2016, 92, 262-271.	2.8	48
132	Microstructural Evolution of an Al-Alloyed Duplex Stainless Steel During Tensile Deformation Between 77 K and 473 K (âˆ˜196Â°K and 200Â°K). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2705-2716.	1.1	12
133	Influence of Martensite Fraction on Tensile Properties of Quenched and Partitioned (Q&P) Martensitic Stainless Steels. Steel Research International, 2016, 87, 1082-1094.	1.0	33
134	Influence of non-metallic inclusions on fatigue life in the very high cycle fatigue regime. International Journal of Fatigue, 2016, 84, 40-52.	2.8	75
135	Influence of Martensite Fraction on the Stabilization of Austenite in Austeniticâ€“Martensitic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1947-1959.	1.1	24
136	Cyclic degradation in bamboo-like Feâ€“Mnâ€“Alâ€“Ni shape memory alloys â€” The role of grain orientation. Scripta Materialia, 2016, 114, 156-160.	2.6	61
137	Influence of Al on the temperature dependence of strain hardening behavior and glide planarity in Feâ€“Crâ€“Niâ€“Mnâ€“C austenitic stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 301-312.	2.6	31
138	Functionally Graded High-Alloy CrMnNi TRIP Steel Produced by Local Heat Treatment Using High-Energy Electron Beam. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 123-138.	1.1	2
139	Investigation of Phase Transformations in High-Alloy Austenitic TRIP Steel Under High Pressure (up to) Tj ETQq1 1 0.784314 rgBT / Over Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 95-111.	1.1	27
140	The Portevinâ€“Le Châˆ“telier Effect in a Metastable Austenitic Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 59-74.	1.1	31
141	Influence of Temperature on Fatigue-Induced Martensitic Phase Transformation in a Metastable CrMnNi-Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 84-94.	1.1	18
142	In-line Process Control in the Active Screen Plasma Nitrocarburizing Using a Combined Approach Based on Infrared Laser Absorption Spectroscopy and Bias Power Management*. HTM - Journal of Heat Treatment and Materials, 2016, 71, 141-147.	0.1	11
143	Crack growth behavior of aluminum alloy 6061 T651 under uniaxial and biaxial planar testing condition. Frattura Ed Integrita Strutturale, 2016, , .	0.5	1
144	Biaxial fatigue behavior of a powder metallurgical TRIP steel. Frattura Ed Integrita Strutturale, 2016, , .	0.5	3

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145	Portevin Le Chatelier Effect in a Metastable Austenitic CrMnNi Steel. <i>Materials Today: Proceedings</i> , 2015, 2, S623-S626.	0.9	1
146	Texture evolution of cold rolled and reversion annealed metastable austenitic CrMnNi steels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 82, 012069.	0.3	4
147	Electron beam hardening of PVD-coated steels – Improved load-supporting capacity for Ti $\alpha$ -xAlxN layers. <i>Surface and Coatings Technology</i> , 2015, 283, 201-209.	2.2	7
148	Magnitude of shear of deformation-induced $\epsilon$ -martensite in high-alloy metastable steel. <i>Materials Letters</i> , 2015, 143, 155-158.	1.3	23
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