

Helmut Clemens

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/705077/publications.pdf>

Version: 2024-02-01

388
papers

13,979
citations

31902

53
h-index

30848

102
g-index

413
all docs

413
docs citations

413
times ranked

5385
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties, microstructure and thermal stability of a nanocrystalline CoCrFeMnNi high-entropy alloy after severe plastic deformation. <i>Acta Materialia</i> , 2015, 96, 258-268.	3.8	952
2	Design, Processing, Microstructure, Properties, and Applications of Advanced Intermetallic TiAl Alloys. <i>Advanced Engineering Materials</i> , 2013, 15, 191-215.	1.6	840
3	Microstructural design of hard coatings. <i>Progress in Materials Science</i> , 2006, 51, 1032-1114.	16.0	793
4	Processing and Applications of Intermetallic β -TiAl-Based Alloys. <i>Advanced Engineering Materials</i> , 2000, 2, 551-570.	1.6	537
5	Design of Novel β -Solidifying TiAl Alloys with Adjustable β/β_2 -Phase Fraction and Excellent Hot-Workability. <i>Advanced Engineering Materials</i> , 2008, 10, 707-713.	1.6	357
6	Microstructural design and mechanical properties of a cast and heat-treated intermetallic multi-phase β -TiAl based alloy. <i>Intermetallics</i> , 2014, 44, 128-140.	1.8	329
7	Modeling concepts for intermetallic titanium aluminides. <i>Progress in Materials Science</i> , 2016, 81, 55-124.	16.0	304
8	Intermetallic titanium aluminides in aerospace applications – processing, microstructure and properties. <i>Materials at High Temperatures</i> , 2016, 33, 560-570.	0.5	187
9	Powder Metallurgical Processing of Intermetallic Gamma Titanium Aluminides. <i>Advanced Engineering Materials</i> , 2004, 6, 23-38.	1.6	181
10	High-Energy X-Rays: A tool for Advanced Bulk Investigations in Materials Science and Physics. <i>Textures and Microstructures</i> , 2003, 35, 219-252.	0.2	180
11	In and ex situ investigations of the β_2 -phase in a Nb and Mo containing β -TiAl based alloy. <i>Intermetallics</i> , 2008, 16, 827-833.	1.8	159
12	Intermetallic β -Solidifying β -TiAl Based Alloys – From Fundamental Research to Application. <i>Advanced Engineering Materials</i> , 2017, 19, 1600735.	1.6	156
13	Evolution of the β_2 phase in a β -stabilized multi-phase TiAl alloy and its effect on hardness. <i>Acta Materialia</i> , 2014, 64, 241-252.	3.8	144
14	Sheet gamma TiAl: Status and opportunities. <i>Jom</i> , 2004, 56, 42-45.	0.9	142
15	Effect of carbon addition on solidification behavior, phase evolution and creep properties of an intermetallic β -stabilized β -TiAl based alloy. <i>Intermetallics</i> , 2014, 46, 173-184.	1.8	139
16	Technology and mechanical properties of advanced β -TiAl based alloys. <i>International Journal of Materials Research</i> , 2009, 100, 1021-1030.	0.1	136
17	Microstructure development and hardness of a powder metallurgical multi phase β -TiAl based alloy. <i>Intermetallics</i> , 2012, 22, 231-240.	1.8	134
18	Light-Weight Intermetallic Titanium Aluminides – Status of Research and Development. <i>Advanced Materials Research</i> , 0, 278, 551-556.	0.3	133

#	ARTICLE	IF	CITATIONS
19	Grain refinement in β -TiAl-based alloys by solid state phase transformations. <i>Intermetallics</i> , 2006, 14, 1380-1385.	1.8	118
20	Hot-working behavior of an advanced intermetallic multi-phase β -TiAl based alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 614, 297-310.	2.6	117
21	Deformation mechanisms in TiAl intermetallics—experiments and modeling. <i>International Journal of Plasticity</i> , 2003, 19, 281-321.	4.1	115
22	A novel approach for site-specific atom probe specimen preparation by focused ion beam and transmission electron backscatter diffraction. <i>Ultramicroscopy</i> , 2014, 144, 9-18.	0.8	107
23	Carbon distribution in multi-phase β -TiAl based alloys and its influence on mechanical properties and phase formation. <i>Acta Materialia</i> , 2015, 94, 205-213.	3.8	106
24	Phase fractions, transition and ordering temperatures in TiAl–Nb–Mo alloys: An in- and ex-situ study. <i>Intermetallics</i> , 2010, 18, 1544-1552.	1.8	99
25	Microstructures and mechanical properties of a multi-phase β -solidifying TiAl alloy densified by spark plasma sintering. <i>Acta Materialia</i> , 2014, 73, 107-115.	3.8	95
26	The high temperature oxidation behaviour of high and low alloyed TiAl-based intermetallics. <i>Intermetallics</i> , 2002, 10, 293-305.	1.8	87
27	High carbon solubility in a β -TiAl-based Ti–45Al–5Nb–0.5C alloy and its effect on hardening. <i>Acta Materialia</i> , 2009, 57, 1504-1511.	3.8	86
28	Mechanical behavior and related microstructural aspects of a nano-lamellar TiAl alloy at elevated temperatures. <i>Acta Materialia</i> , 2017, 128, 440-450.	3.8	85
29	Electronic structure of $\text{PbTePb}_{1-x}\text{Sn}_x\text{Te}$ superlattices. <i>Physical Review B</i> , 1984, 30, 3394-3405.	1.1	81
30	Creep behaviour and related high temperature microstructural stability of Ti–46Al–9Nb sheet material. <i>Intermetallics</i> , 2005, 13, 515-524.	1.8	81
31	Recrystallization and phase transitions in a β -TiAl-based alloy as observed by ex situ and in situ high-energy X-ray diffraction. <i>Acta Materialia</i> , 2006, 54, 3721-3735.	3.8	81
32	High-temperature oxidation behavior of multi-phase Mo-containing β -TiAl-based alloys. <i>Intermetallics</i> , 2014, 53, 45-55.	1.8	81
33	In Situ Experiments with Synchrotron High-Energy X-Rays and Neutrons. <i>Advanced Engineering Materials</i> , 2011, 13, 658-663.	1.6	80
34	Deformation behavior of differently processed β -titanium aluminides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 329-331, 153-162.	2.6	79
35	Structural characterization and tensile properties of a high niobium containing gamma TiAl sheet obtained by powder metallurgical processing. <i>Intermetallics</i> , 2004, 12, 275-280.	1.8	78
36	Effect of hot rolling and primary annealing on the microstructure and texture of a β -stabilised β -TiAl based alloy. <i>Acta Materialia</i> , 2017, 126, 145-153.	3.8	77

#	ARTICLE	IF	CITATIONS
37	Silicon distribution and silicide precipitation during annealing in an advanced multi-phase $\hat{\text{T}}^3\text{-TiAl}$ based alloy. <i>Acta Materialia</i> , 2016, 110, 236-245.	3.8	76
38	Microstructural evolution of Cr-Mn-N austenitic steels during cold work hardening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 427, 246-254.	2.6	75
39	Enhancement of creep properties and microstructural stability of intermetallic $\hat{\text{T}}^2\text{-solidifying } \hat{\text{T}}^3\text{-TiAl}$ based alloys. <i>Intermetallics</i> , 2015, 63, 19-26.	1.8	75
40	Metallurgical processing of titanium aluminides on industrial scale. <i>Intermetallics</i> , 2018, 103, 12-22.	1.8	72
41	Mechanical Size-Effects in Miniaturized and Bulk Materials. <i>Advanced Engineering Materials</i> , 2006, 8, 1033-1045.	1.6	70
42	Influence of reverted austenite on static and dynamic mechanical properties of a PH 13-8 Mo maraging steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 2065-2070.	2.6	69
43	Nanoindentation testing as a powerful screening tool for assessing phase stability of nanocrystalline high-entropy alloys. <i>Materials and Design</i> , 2017, 115, 479-485.	3.3	68
44	Diffusion bonding of $\hat{\text{T}}^3\text{-TiAl}$ sheets. <i>Intermetallics</i> , 1999, 7, 1025-1031.	1.8	67
45	On the recrystallization behavior of technically pure molybdenum. <i>International Journal of Refractory Metals and Hard Materials</i> , 2010, 28, 703-708.	1.7	67
46	Phase transformations in high niobium and carbon containing $\hat{\text{T}}^3\text{-TiAl}$ based alloys. <i>Intermetallics</i> , 2006, 14, 1194-1198.	1.8	66
47	Nanometer-scaled lamellar microstructures in $\text{Ti-45Al-7.5Nb-(0; 0.5)C}$ alloys and their influence on hardness. <i>Intermetallics</i> , 2008, 16, 868-875.	1.8	65
48	Comparison of NiAl precipitation in a medium carbon secondary hardening steel and C-free PH13-8 maraging steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 429, 96-106.	2.6	62
49	Experimental studies and thermodynamic simulation of phase transformations in high Nb containing $\hat{\text{T}}^3\text{-TiAl}$ based alloys. <i>International Journal of Materials Research</i> , 2007, 98, 1131-1137.	0.1	62
50	Morphology change of retained austenite during austempering of carbide-free bainitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 664, 236-246.	2.6	59
51	Tailoring microstructure and chemical composition of advanced $\hat{\text{T}}^3\text{-TiAl}$ based alloys for improved creep resistance. <i>Intermetallics</i> , 2018, 97, 27-33.	1.8	59
52	Self-Organized Nanostructures in Hard Ceramic Coatings. <i>Advanced Engineering Materials</i> , 2005, 7, 1071-1082.	1.6	58
53	Diffusion bonding of intermetallic Ti-47Al-2Cr-0.2Si sheet material and mechanical properties of joints at room temperature and elevated temperatures. <i>Intermetallics</i> , 1997, 5, 415-423.	1.8	57
54	Investigation of metal foam formation by microscopy and ultra small-angle neutron scattering. <i>Acta Materialia</i> , 2001, 49, 3409-3420.	3.8	57

#	ARTICLE	IF	CITATIONS
55	Preferential site occupancy of alloying elements in TiAl-based phases. Journal of Applied Physics, 2016, 119, .	1.1	55
56	Experimental and theoretical evidence of displacive martensite in an intermetallic Mo-containing β -TiAl based alloy. Acta Materialia, 2016, 115, 242-249.	3.8	55
57	Effect of microstructural instability on the creep resistance of an advanced intermetallic β -TiAl based alloy. Intermetallics, 2017, 80, 1-9.	1.8	55
58	In-situ study of the time-temperature-transformation behaviour of a multi-phase intermetallic β -stabilised TiAl alloy. Intermetallics, 2015, 57, 17-24.	1.8	53
59	Microstructure and mechanical properties of Ti 45Al 5Nb+(0-0.5C) sheets. Intermetallics, 2008, 16, 689-697.	1.8	52
60	In Situ Characterization of a Nb and Mo Containing β -TiAl Based Alloy Using Neutron Diffraction and High-Temperature Microscopy. Advanced Engineering Materials, 2009, 11, 932-937.	1.6	52
61	In situ study of dynamic recrystallization and hot deformation behavior of a multiphase titanium aluminide alloy. Journal of Applied Physics, 2009, 106, 113526.	1.1	52
62	How grain boundary chemistry controls the fracture mode of molybdenum. Materials and Design, 2018, 142, 36-43.	3.3	52
63	Hot-wall epitaxy system for the growth of multilayer IV-VI compound heterostructures. Review of Scientific Instruments, 1983, 54, 685-689.	0.6	51
64	Designing advanced intermetallic titanium aluminide alloys for additive manufacturing. Intermetallics, 2021, 131, 107109.	1.8	51
65	Designed fully lamellar microstructures in a β -TiAl based alloy: adjustment and microstructural changes upon long-term isothermal exposure at 700 and 800°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 329-331, 124-129.	2.6	50
66	Grain boundary segregation engineering in as-sintered molybdenum for improved ductility. Scripta Materialia, 2018, 156, 60-63.	2.6	50
67	Microstructure evolution and mechanical properties of an intermetallic Ti-43.5Al-4Nb-1Mo-0.1B alloy after ageing below the eutectoid temperature. International Journal of Materials Research, 2011, 102, 703-708.	0.1	49
68	Structural characterization of carbide-free bainite in a Fe-0.2C-1.5Si-2.5Mn steel. Materials Characterization, 2015, 102, 85-91.	1.9	49
69	Optimizing the properties of TiAl sheet material for application in heat protection shields or propulsion systems. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 201, 182-193.	2.6	48
70	On the Formation of Ordered β -phase in High Nb Containing β -TiAl Based Alloys. Advanced Engineering Materials, 2008, 10, 929-934.	1.6	48
71	Characteristics of the tensile flow behavior of Ti-46Al-9Nb sheet material - Analysis of thermally activated processes of plastic deformation. Intermetallics, 2008, 16, 717-726.	1.8	48
72	Spinodal decomposition of cubic Ti _{1-x} Al _x N: Comparison between experiments and modeling. International Journal of Materials Research, 2007, 98, 1054-1059.	0.1	47

#	ARTICLE	IF	CITATIONS
73	Effect of heat-treatments and hot-isostatic pressing on phase transformation and microstructure in a β_2/β_2 containing β_3 -TiAl based alloy. Scripta Materialia, 2000, 42, 1065-1070.	2.6	46
74	On grain boundary segregation in molybdenum materials. Materials and Design, 2017, 135, 204-212.	3.3	46
75	Microstructural stability and creep behavior of a lamellar β_3 -TiAl based alloy with extremely fine lamellar spacing. Intermetallics, 2002, 10, 459-466.	1.8	45
76	The high-temperature oxidation behaviour of Ti-47Al-2Cr-0.2Si and Ti-48Al-2Cr-2Nb compared with Ti-48Al-2Cr. Intermetallics, 1997, 5, 525-534.	1.8	44
77	In situ high-energy X-ray diffraction study and quantitative phase analysis in the $\beta_2+\beta_3$ phase field of titanium aluminides. Scripta Materialia, 2007, 57, 1145-1148.	2.6	44
78	Fracture and R-curve behavior of an intermetallic β_2 -stabilized TiAl alloy with different nearly lamellar microstructures. Intermetallics, 2014, 53, 1-9.	1.8	44
79	Phase transformations in a β_2 -solidifying β_3 -TiAl based alloy during rapid solidification. Intermetallics, 2017, 91, 100-109.	1.8	44
80	Small-angle neutron scattering analysis of the precipitation behaviour in a maraging steel. Journal of Applied Crystallography, 2003, 36, 415-419.	1.9	43
81	Advancement of Compositional and Microstructural Design of Intermetallic β_3 -TiAl Based Alloys Determined by Atom Probe Tomography. Materials, 2016, 9, 755.	1.3	43
82	Lattice and phase strain evolution during tensile loading of an intermetallic, multi-phase β_3 -TiAl based alloy. Acta Materialia, 2018, 158, 193-205.	3.8	43
83	β_3/β_2 Lamellar Domains in Rolled TiAl. Scripta Materialia, 1998, 38, 1377-1382.	2.6	42
84	Mechanical twins, their development and growth. European Journal of Mechanics, A/Solids, 2003, 22, 709-726.	2.1	42
85	Evolution of microstructure and texture in Ti-46Al-9Nb sheet material during tensile flow at elevated temperatures. Intermetallics, 2010, 18, 1046-1055.	1.8	42
86	Texture evolution of the β_3 - and the β_2/β_2 -phase during hot rolling of β_3 -TiAl based alloys. Intermetallics, 2006, 14, 336-347.	1.8	41
87	Textural Evolution During Dynamic Recovery and Static Recrystallization of Molybdenum. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4794-4805.	1.1	41
88	Insights into the deformation behavior of the CrMnFeCoNi high-entropy alloy revealed by elevated temperature nanoindentation. Journal of Materials Research, 2017, 32, 2658-2667.	1.2	40
89	The Characterisation of a Powder Metallurgically Manufactured TiAl ₃ Titanium Aluminide Alloy Using Complimentary Quantitative Methods. Praktische Metallographie/Practical Metallography, 2011, 48, 594-604.	0.1	40
90	A thermodynamical model for the nucleation of mechanical twins in TiAl. Acta Materialia, 2003, 51, 1249-1260.	3.8	39

#	ARTICLE	IF	CITATIONS
91	An in-situ high-energy X-ray diffraction study on the hot-deformation behavior of β -phase containing TiAl alloy. <i>Intermetallics</i> , 2013, 39, 25-33.	1.8	39
92	High-temperature mechanical properties of hot isostatically pressed and forged gamma titanium aluminide alloy powder. <i>Intermetallics</i> , 2002, 10, 511-517.	1.8	38
93	Deformation mechanisms in micron-sized PST TiAl compression samples: Experiment and model. <i>Acta Materialia</i> , 2011, 59, 3410-3421.	3.8	38
94	Characterization of the high temperature deformation behavior of two intermetallic TiAl–Mo alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 648, 208-216.	2.6	38
95	Phase transition and ordering behavior of ternary Ti–Al–Mo alloys using in-situ neutron diffraction. <i>International Journal of Materials Research</i> , 2011, 102, 697-702.	0.1	37
96	Grain boundary segregation in Ni-base alloys: A combined atom probe tomography and first principles study. <i>Acta Materialia</i> , 2021, 221, 117354.	3.8	37
97	Physics and applications of IV-VI compound quantum well and superlattice structures. <i>Semiconductor Science and Technology</i> , 1990, 5, S122-S130.	1.0	36
98	Precipitation twinning. <i>Acta Materialia</i> , 2007, 55, 4915-4923.	3.8	36
99	Interplay between effect of Mo and chemical disorder on the stability of β -TiAl phase. <i>Intermetallics</i> , 2015, 61, 85-90.	1.8	36
100	Grain boundary study of technically pure molybdenum by combining APT and TKD. <i>Ultramicroscopy</i> , 2015, 159, 445-451.	0.8	36
101	Characterization of Ti–48Al–2Cr sheet material. <i>Intermetallics</i> , 1994, 2, 179-184.	1.8	35
102	Creep behavior of β -TiAl sheet material with differently spaced fully lamellar microstructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 329-331, 840-846.	2.6	35
103	An Advanced TiAl Alloy for High-Performance Racing Applications. <i>Materials</i> , 2020, 13, 4720.	1.3	35
104	On the origin of acoustic emission during room temperature compressive deformation of a β -TiAl based alloy. <i>Intermetallics</i> , 2000, 8, 823-830.	1.8	34
105	In Situ Diffraction Experiments for the Investigation of Phase Fractions and Ordering Temperatures in Ti–44 at% Al–7 at% Mo Alloys. <i>Advanced Engineering Materials</i> , 2011, 13, 306-311.	1.6	34
106	The Contribution of High-Energy X-Rays and Neutrons to Characterization and Development of Intermetallic Titanium Aluminides. <i>Advanced Engineering Materials</i> , 2011, 13, 685-699.	1.6	34
107	Fatigue threshold and crack propagation in β -TiAl sheets. <i>Intermetallics</i> , 2001, 9, 89-96.	1.8	33
108	Precipitation Behaviour of a Complex Steel. <i>Advanced Engineering Materials</i> , 2006, 8, 1066-1077.	1.6	33

#	ARTICLE	IF	CITATIONS
109	Influence of the heating rate on the recrystallization behavior of molybdenum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 535, 316-324.	2.6	32
110	In Situ Characterization Techniques Based on Synchrotron Radiation and Neutrons Applied for the Development of an Engineering Intermetallic Titanium Aluminide Alloy. <i>Metals</i> , 2016, 6, 10.	1.0	31
111	Analysis of the precipitation behaviour in a high-speed steel by means of small-angle neutron scattering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 398, 323-331.	2.6	30
112	Orientation dependent recovery and recrystallization behavior of hot-rolled molybdenum. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 48, 179-186.	1.7	30
113	Induction Tempering vs Conventional Tempering of a Heat-Treatable Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 3694-3702.	1.1	30
114	Influence of Heat Treatments on the Microstructure of a Multi-Phase Titanium Aluminide Alloy. <i>Praktische Metallographie/Practical Metallography</i> , 2012, 49, 124-137.	0.1	30
115	Quench rate sensitivity of age-hardenable Al-Zn-Mg-Cu alloys with respect to the Zn/Mg ratio: An in situ SAXS and HEXRD study. <i>Acta Materialia</i> , 2022, 227, 117727.	3.8	30
116	Magneto-optical investigation of PbTe/Pb _{1-x} Sn _x Te superlattices. <i>Superlattices and Microstructures</i> , 1985, 1, 1-9.	1.4	29
117	Characterization of residual stresses in turbine discs by neutron and high-energy X-ray diffraction and comparison to finite element modeling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 437, 75-82.	2.6	29
118	Microstructure and Texture Formation during Hot Rolling of Niobium-Rich β TiAl Alloys with Different Carbon Contents. <i>Advanced Engineering Materials</i> , 2006, 8, 1101-1108.	1.6	29
119	On the evolution of secondary hardening carbides during continuous versus isothermal heat treatment of high speed steel HS 6-5-2. <i>Materials Characterization</i> , 2016, 120, 323-330.	1.9	29
120	An energy approach to the formation of twins in TiAl. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003, 34, 2827-2836.	1.1	28
121	Design and control of microstructure and texture by thermomechanical processing of a multi-phase TiAl alloy. <i>Materials and Design</i> , 2017, 131, 286-296.	3.3	28
122	In situ and atomic-scale investigations of the early stages of β precipitate growth in a supersaturated intermetallic Ti-44Al-7Mo (at.%) solid solution. <i>Acta Materialia</i> , 2019, 164, 110-121.	3.8	28
123	Processing, Properties and Applications of Gamma Titanium Aluminide Sheet and Foil Materials. <i>Materials Research Society Symposia Proceedings</i> , 1996, 460, 29.	0.1	27
124	Internal friction of β -TiAl alloys at high temperature. <i>Journal of Alloys and Compounds</i> , 2000, 310, 134-138.	2.8	27
125	Production, Processing and Application of β (TiAl)-Based Alloys. , 2005, , 351-392.		27
126	Electron Beam Melting of a β -Solidifying Intermetallic Titanium Aluminide Alloy. <i>Advanced Engineering Materials</i> , 2019, 21, 1900800.	1.6	27

#	ARTICLE	IF	CITATIONS
127	Interfaces in nanostructured thin films and their influence on hardness. International Journal of Materials Research, 2005, 96, 468-480.	0.8	26
128	The influence of spin-misalignment scattering on the SANS data evaluation of martensitic age-hardening steels. Acta Materialia, 2007, 55, 2637-2646.	3.8	26
129	On the influence of coating and oxidation on the mechanical properties of a β -TiAl based alloy. Intermetallics, 2008, 16, 1206-1211.	1.8	26
130	Precipitation behaviour of an Fe-Co-Mo-alloy during non-isothermal ageing. International Journal of Materials Research, 2008, 99, 367-374.	0.1	26
131	Study of nanometer-scaled lamellar microstructure in a Ti-45Al-7.5Nb alloy – Experiments and modeling. Intermetallics, 2010, 18, 509-517.	1.8	26
132	Influence of process parameter variation during thermo-mechanical processing of an intermetallic β -stabilized β -TiAl based alloy. Materials Characterization, 2015, 109, 116-121.	1.9	26
133	Directional Atomic Rearrangements During Transformations Between the α - and β -Phases in Titanium Aluminides. Advanced Engineering Materials, 2008, 10, 389-392.	1.6	25
134	In situ small-angle X-ray scattering study of the perovskite-type carbide precipitation behavior in a carbon-containing intermetallic TiAl alloy using synchrotron radiation. Acta Materialia, 2014, 77, 360-369.	3.8	25
135	Atomic relaxation processes in an intermetallic Ti-43Al-4Nb-1Mo-0.1B alloy studied by mechanical spectroscopy. Acta Materialia, 2014, 65, 338-350.	3.8	25
136	Impact of the B2 ordering behavior on the mechanical properties of a FeCoMo alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 511-518.	2.6	25
137	Impact of Alloying on Stacking Fault Energies in β -TiAl. Applied Sciences (Switzerland), 2017, 7, 1193.	1.3	25
138	Anomalous transport in PbTe doping superlattices. Applied Physics Letters, 1985, 47, 738-740.	1.5	23
139	Precipitation behavior of intermetallic NiAl particles in Fe-6Al-4Ni analyzed by SANS and 3DAP. Intermetallics, 2010, 18, 1553-1559.	1.8	23
140	Advanced Intermetallic TiAl Alloys. Materials Science Forum, 0, 879, 113-118.	0.3	23
141	High-temperature phenomena in an advanced intermetallic nano-lamellar β -TiAl-based alloy. Part I: Internal friction and atomic relaxation processes. Acta Materialia, 2020, 200, 442-454.	3.8	23
142	Growth and characterization of PbTe epitaxial films grown by hot-wall epitaxy. Journal of Crystal Growth, 1984, 66, 251-256.	0.7	22
143	Determination of the diffusion coefficient of hydrogen in gamma titanium aluminides during electrolytic charging. Acta Materialia, 2000, 48, 1005-1019.	3.8	22
144	On the role of twinning during room temperature deformation of β -TiAl based alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 329-331, 177-183.	2.6	22

#	ARTICLE	IF	CITATIONS
145	The high-temperature damping background in intermetallic alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 442, 138-141.	2.6	22
146	Characteristics of an optimized active metal cast joint between copper and C/C. <i>Physica Scripta</i> , 2007, T128, 200-203.	1.2	22
147	Microstructure evolution induced by the intrinsic heat treatment occurring during wire-arc additive manufacturing of an Al-Mg-Zn-Cu crossover alloy. <i>Materials Letters</i> , 2021, 303, 130500.	1.3	22
148	How electron beam melting tailors the Al-sensitive microstructure and mechanical response of a novel process-adapted $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si53.svg" \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \hat{3} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -TiAl based alloy. <i>Materials and Design</i> , 2021, 212, 110187.	3.3	22
149	Internal friction of $\hat{3}$ -TiAl-based alloys with different microstructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 370, 234-239.	2.6	21
150	On the development of grain growth resistant tantalum alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2006, 24, 437-444.	1.7	21
151	Impact of Mo on the β phase in $\hat{2}$ -solidifying TiAl alloys: An experimental and computational approach. <i>Intermetallics</i> , 2017, 85, 26-33.	1.8	21
152	Microstructure and mechanical properties of novel TiAl alloys tailored via phase and precipitate morphology. <i>Intermetallics</i> , 2021, 138, 107316.	1.8	21
153	Forming. , 2002, , 617-642.		20
154	Spinodal decomposition in Fe-25%Co-9%Mo. <i>Intermetallics</i> , 2010, 18, 2128-2135.	1.8	20
155	Induction Hardening vs Conventional Hardening of a Heat Treatable Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 5657-5666.	1.1	20
156	The creep behavior of a fully lamellar $\hat{3}$ -TiAl based alloy. <i>Intermetallics</i> , 2019, 114, 106611.	1.8	20
157	Effects of tungsten alloying and fluorination on the oxidation behavior of intermetallic titanium aluminides for aerospace applications. <i>Intermetallics</i> , 2021, 139, 107270.	1.8	20
158	On the Formation Mechanism of Banded Microstructures in Electron Beam Melted Ti-48Al-2Cr-2Nb and the Design of Heat Treatments as Remedial Action. <i>Advanced Engineering Materials</i> , 2021, 23, 2101199.	1.6	20
159	SANS investigation of precipitation hardening of two-phase β -TiAl alloys. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1163-s1165.	1.1	19
160	Physical metallurgy of high Nb-containing TiAl alloys. <i>International Journal of Materials Research</i> , 2004, 95, 585-591.	0.8	19
161	Combining complementary techniques to study precipitates in steels. <i>International Journal of Materials Research</i> , 2005, 96, 1074-1080.	0.8	19
162	Grain Growth and $\hat{2}$ to $\hat{1}$ Transformation Behavior of a $\hat{2}$ -Solidifying TiAl Alloy. <i>Advanced Engineering Materials</i> , 2015, 17, 786-790.	1.6	19

#	ARTICLE	IF	CITATIONS
163	On the chemistry of the carbides in a molybdenum base Mo-Hf-C alloy produced by powder metallurgy. <i>Journal of Alloys and Compounds</i> , 2016, 654, 445-454.	2.8	19
164	High-resolution characterization of the martensite-austenite constituent in a carbide-free bainitic steel. <i>Materials Characterization</i> , 2018, 144, 182-190.	1.9	19
165	Influence of crystal orientation and Berkovich tip rotation on the mechanical characterization of grain boundaries in molybdenum. <i>Materials and Design</i> , 2019, 182, 107998.	3.3	19
166	Microstructural Evolution and Mechanical Properties of an Advanced β -TiAl Based Alloy Processed by Spark Plasma Sintering. <i>Materials</i> , 2019, 12, 1523.	1.3	19
167	Characterization of controlled microstructures in a β -TiAl(Cr, Mo, Si, B) alloy. <i>Intermetallics</i> , 1999, 7, 1081-1087.	1.8	18
168	Phase stability of a β -TiAl based alloy upon annealing: comparison between experiment and thermodynamic calculations. <i>Scripta Materialia</i> , 2003, 49, 279-284.	2.6	18
169	Internal stress measurements by high-energy synchrotron X-ray diffraction at increased specimen-detector distance. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 200, 315-322.	0.6	18
170	Neutron diffraction study of texture development during hot working of different gamma-titanium aluminide alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004, 35, 3563-3579.	1.1	18
171	Numerical Modelling of Kinking in Lamellar β -TiAl Based Alloys. <i>Advanced Engineering Materials</i> , 2006, 8, 1109-1113.	1.6	18
172	Phase Equilibria and Phase Transformations in Molybdenum-Containing TiAl Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1295, 113.	0.1	18
173	In Situ Synchrotron Study of B19 Phase Formation in an Intermetallic β -TiAl Alloy. <i>Advanced Engineering Materials</i> , 2012, 14, 445-448.	1.6	18
174	Microstructural evolution and grain refinement in an intermetallic titanium aluminide alloy with a high molybdenum content. <i>International Journal of Materials Research</i> , 2015, 106, 725-731.	0.1	18
175	Heat Treatments and Critical Quenching Rates in Additively Manufactured Al-Si-Mg Alloys. <i>Materials</i> , 2020, 13, 720.	1.3	18
176	Spin resonant optical four wave mixing in $\text{Pb}_{1-x}\text{Sn}_x\text{TTe}$ epitaxial layers and in $\text{Pb}_{1-x}\text{Sn}_x/\text{PbTe}$ superlattices. <i>Solid State Communications</i> , 1985, 55, 765-768.	0.9	17
177	Interdiffusion in $\text{Pb}_{1-x}\text{EuxSe}/\text{PbSe}$ multi-quantum-well structures. <i>Journal of Crystal Growth</i> , 1991, 113, 593-598.	0.7	17
178	Protection of Nb- and Ta-based alloys against high temperature oxidation. <i>International Journal of Refractory Metals and Hard Materials</i> , 1993, 12, 283-293.	1.7	17
179	Tensile properties and strain rate sensitivity of Ti-47Al-2Cr-0.2Si sheet material with different microstructures. <i>Scripta Materialia</i> , 1996, 35, 429-434.	2.6	17
180	On the overaging behaviour of tool steel X38 CrMoV 5-3. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 472, 148-156.	2.6	17

#	ARTICLE	IF	CITATIONS
181	Internal friction and atomic relaxation processes in an intermetallic Mo-rich Ti-44Al-7Mo ($\beta+\beta_0$) model alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 700, 495-502.	2.6	17
182	Pathways of phase transformation in β_2 -phase-stabilized β/β_3 -TiAl alloys subjected to two-step heat treatments. <i>Scripta Materialia</i> , 2018, 149, 70-74.	2.6	17
183	Laser powder bed fusion of an engineering intermetallic TiAl alloy. <i>Materials and Design</i> , 2021, 201, 109506.	3.3	17
184	Intermetallic Titanium Aluminides as Innovative High Temperature Lightweight Structural Materials – How Materialographic Methods Have Contributed to Their Development. <i>Praktische Metallographie/Practical Metallography</i> , 2015, 52, 691-721.	0.1	17
185	Epitaxial growth of PbTe on (111)BaF ₂ and (100)GaAs. <i>Superlattices and Microstructures</i> , 1988, 4, 591-596.	1.4	16
186	Biological Multi-layer Systems as Implant Surface Modification. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2003, 34, 1084-1093.	0.5	16
187	Structural and electronic properties of PbTe/Pb _{1-x} Sn _x Te superlattices. <i>Surface Science</i> , 1984, 142, 571-578.	0.8	15
188	Combined use of small-angle neutron scattering and atom probe tomography for the analysis of precipitates in a Fe-15 m% Co-25%Mo alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 331-340.	1.1	15
189	Metallurgie, Gefüge und Eigenschaften von intermetallischen TiAl Ingots. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2010, 155, 325-329.	0.4	15
190	Precipitation Behavior of Fe-25%Co-9%Mo Investigated by In-Situ Small-Angle Neutron Scattering and Complementary Methods. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 1230-1234.	1.1	15
191	Advanced Titanium Aluminides - How to Improve the Creep Resistance via Compositional and Microstructural Optimization. <i>Materials Science Forum</i> , 2018, 941, 1484-1489.	0.3	15
192	Selective Laser Melting of a Near- β Ti6242S Alloy for High-Performance Automotive Parts. <i>Advanced Engineering Materials</i> , 2021, 23, 2001194.	1.6	15
193	Aspects of Powder Characterization for Additive Manufacturing. <i>Praktische Metallographie/Practical Metallography</i> , 2018, 55, 620-636.	0.1	15
194	Interdiffusion in diluted magnetic PbTe/Pb _{1-x} Mn _x Te quantum well structures. <i>Journal of Applied Physics</i> , 1992, 72, 97-106.	1.1	14
195	Kinetics of Precipitation in a Complex Hot-Work Tool Steel. <i>Steel Research International</i> , 2010, 81, 64-73.	1.0	14
196	Elastoplastic buckling as source of misinterpretation of micropillar tests. <i>Acta Materialia</i> , 2013, 61, 4996-5007.	3.8	14
197	Diffusive and massive phase transformations in Ti-Al-Nb alloys – Modelling and experiments. <i>Intermetallics</i> , 2013, 38, 126-138.	1.8	14
198	Fracture Behavior and Delamination Toughening of Molybdenum in Charpy Impact Tests. <i>Jom</i> , 2016, 68, 2854-2863.	0.9	14

#	ARTICLE	IF	CITATIONS
199	An Additively Manufactured Titanium Alloy in the Focus of Metallography. <i>Praktische Metallographie/Practical Metallography</i> , 2021, 58, 4-31.	0.1	14
200	In-situ observation of the phase evolution during an electromagnetic-assisted sintering experiment of an intermetallic $\text{Ti}_3\text{-TiAl}$ based alloy. <i>Scripta Materialia</i> , 2022, 206, 114233.	2.6	14
201	Intermetallische Ti -Titanaluminid-Basislegierungen aus metallographischer Sicht / Intermetallic Ti -Titanium Aluminide Based Alloys from a Metallographic Point of View. <i>Praktische Metallographie/Practical Metallography</i> , 2000, 37, 194-217.	0.1	14
202	High vacuum molecular beam epitaxy for the growth of IV-VI compounds. <i>Journal of Crystal Growth</i> , 1993, 126, 293-304.	0.7	13
203	Experimental Studies and Thermodynamic Simulations of Phase Transformations in $\text{Ti}_{(41-45)}\text{Al}_{(4-1)}\text{Nb}_{(1)}\text{Mo}_{(0.1)}\text{B}$ Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1128, 30601.	0.1	13
204	Correlation between heat treatment, microstructure and mechanical properties of a hot-work tool steel. <i>International Journal of Materials Research</i> , 2009, 100, 86-91.	0.1	13
205	Evidence of an orthorhombic transition phase in a $\text{Ti}_{44}\text{Al}_{3}\text{Mo}$ (at.%) alloy using in situ synchrotron diffraction and transmission electron microscopy. <i>Materials Characterization</i> , 2019, 147, 398-405.	1.9	13
206	In situ fracture observations of distinct interface types within a fully lamellar intermetallic TiAl alloy. <i>Journal of Materials Research</i> , 2021, 36, 2465-2478.	1.2	13
207	Optical investigations of superlattices. <i>Surface Science</i> , 1986, 170, 657-664.	0.8	12
208	Photoconductive response of PbTe doping superlattices. <i>Applied Physics Letters</i> , 1987, 50, 1654-1656.	1.5	12
209	Epitaxial growth of $\text{Pb}_{1-x}\text{Ge}_x\text{Te}$ films and of $\text{PbTe}/\text{Pb}_{1-x}\text{Ge}_x\text{Te}$ superlattices. <i>Journal of Crystal Growth</i> , 1987, 84, 571-576.	0.7	12
210	Growth of $\text{PbTe}/\text{Pb}_{1-x}\text{Mn}_x\text{Te}$ quantum well structures by molecular beam epitaxy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1989, 7, 3197-3199.	0.9	12
211	Residual stresses in forged IN718 turbine discs. <i>International Journal of Materials Research</i> , 2004, 95, 663-667.	0.8	12
212	Experimental Studies of Phase Transformations in a Carbon Containing $\text{Ti}_{45}\text{Al}_{7.5}\text{Nb}$ Alloy and Related Thermodynamic Simulations. <i>Advanced Engineering Materials</i> , 2005, 7, 1131-1134.	1.6	12
213	In Situ Study of TiAl Lamellae Formation in Supersaturated Ti_{2-3}Al Grains. <i>Advanced Engineering Materials</i> , 2012, 14, 299-303.	1.6	12
214	Characterization of an Intermetallic $\text{Ti}_2\text{-TiAl}$ Titanium Aluminide Alloy. <i>Advanced Engineering Materials</i> , 2013, 15, 1125-1128.	1.6	12
215	Thermal Expansion and Other Thermodynamic Properties of $\text{Ti}_2\text{-TiAl}$ and $\text{Ti}_3\text{-TiAl}$ Intermetallic Phases from First Principles Methods. <i>Materials</i> , 2019, 12, 1292.	1.3	12
216	In-vitro interactions of human chondrocytes and mesenchymal stem cells, and of mouse macrophages with phospholipid-covered metallic implant materials. , 2007, 13, 11-25.		12

#	ARTICLE	IF	CITATIONS
217	Epitaxial growth of PbTe on (100) GaAs substrates. <i>Materials Letters</i> , 1988, 7, 127-130.	1.3	11
218	Precipitation reactions during the early stages of aging in a Ni and Al alloyed martensitic medium carbon steel. <i>Surface and Interface Analysis</i> , 2007, 39, 213-220.	0.8	11
219	Methods to determine the joint strength of C/C to copper joints. <i>Fusion Engineering and Design</i> , 2007, 82, 1786-1792.	1.0	11
220	Analysis of the multistage phase separation reaction in Fe ₂₅ Co ₉ Mo. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2238-2246.	0.8	11
221	Near Conventional Forging of an Advanced TiAl Alloy. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1516, 23-28.	0.1	11
222	Influence of Heat Treatment on Microstructure Stability and Mechanical Properties of a Carbide-Free Bainitic Steel. <i>Advanced Engineering Materials</i> , 2017, 19, 1600658.	1.6	11
223	Herstellung lamellarer Gefügearten in intermetallischen TiAl-Legierungen und deren Charakterisierung. <i>Praktische Metallographie/Practical Metallography</i> , 2007, 44, 430-442.	0.1	11
224	Intermetallische β^3 -Titanaluminid-Basislegierungen aus metallographischer Sicht – eine Fortsetzung. <i>Praktische Metallographie/Practical Metallography</i> , 2011, 48, 64-100.	0.1	11
225	Mechanical spectroscopy of a high-Nb-bearing β^3 -TiAl-based alloy with near-gamma and fully lamellar microstructure. <i>Philosophical Magazine Letters</i> , 2004, 84, 383-393.	0.5	10
226	Computational analysis of the precipitation kinetics in a complex tool steel. <i>International Journal of Materials Research</i> , 2008, 99, 410-415.	0.1	10
227	Phase Transition and Ordering Temperatures of TiAl-Mo Alloys Investigated by <i>In Situ</i> Diffraction Experiments. <i>Materials Science Forum</i> , 2010, 654-656, 456-459.	0.3	10
228	Mechanical Spectroscopy in Advanced TiAl-Nb-Mo Alloys at High Temperature. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1295, 139.	0.1	10
229	Thermodynamic Calculations of Phase Equilibria and Phase Fractions of a β^2 -Solidifying TiAl Alloy using the CALPHAD Approach. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1516, 59-64.	0.1	10
230	Microstructure and Texture Evolution in an Intermetallic β^2 -Stabilized TiAl Alloy During Forging and Subsequent Isothermal Annealing. <i>Advanced Engineering Materials</i> , 2014, 16, 445-451.	1.6	10
231	Evolution of strain-induced hafnium carbides in a molybdenum base Mo-Hf-C alloy studied by small-angle neutron scattering and complementary methods. <i>Journal of Alloys and Compounds</i> , 2016, 688, 619-631.	2.8	10
232	Novel intermetallic-reinforced near- β Ti alloys manufactured by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 792, 139798.	2.6	10
233	Selected Methods of Quantitative Phase Analysis of an Additively Manufactured TiAl ₃ Titanium Aluminide Alloy. <i>Praktische Metallographie/Practical Metallography</i> , 2019, 56, 220-229.	0.1	10
234	Metallography of Intermetallic Titanium Aluminides – the (Additive) Manufacturing Makes the Difference. <i>Praktische Metallographie/Practical Metallography</i> , 2019, 56, 567-584.	0.1	10

#	ARTICLE	IF	CITATIONS
235	Growth of PbTe doping superlattices by hot wall epitaxy. <i>Journal of Crystal Growth</i> , 1988, 88, 236-240.	0.7	9
236	Mechanical Anisotropy in Sheets of $\hat{\Gamma}^3$ -TiAl Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1996, 460, 141.	0.1	9
237	Computational Modeling and Experimental Study of the Deformation Behavior of $\hat{\Gamma}^3$ -TiAl-Based Alloys. <i>Advanced Engineering Materials</i> , 2000, 2, 662-666.	1.6	9
238	Characterization of Residual Stresses in Compressor Discs for Aeroengines. <i>Advanced Engineering Materials</i> , 2006, 8, 1088-1092.	1.6	9
239	Compressive deformation of lamellar microstructures – a short review. <i>International Journal of Materials Research</i> , 2007, 98, 1041-1046.	0.1	9
240	On the evolution of secondary hardening carbides in a high-speed steel characterised by APFIM and SANS. <i>International Journal of Materials Research</i> , 2007, 98, 1093-1103.	0.1	9
241	On Phase Equilibria and Phase Transformations in $\hat{\Gamma}^2/\hat{\Gamma}^3$ -TiAl Alloys – A Short Review. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2011, 156, 438-442.	0.4	9
242	Advanced $\hat{\Gamma}^2$ -Solidifying Titanium Aluminides – Development Status and Perspectives. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1516, 3-16.	0.1	9
243	Correlative microscopy of a carbide-free bainitic steel. <i>Micron</i> , 2016, 81, 1-7.	1.1	9
244	A Modified Electrochemical Nanoindentation Setup for Probing Hydrogen-Material Interaction Demonstrated on a Nickel-Based Alloy. <i>Jom</i> , 2020, 72, 2020-2029.	0.9	9
245	Exploring Structural Changes, Manufacturing, Joining, and Repair of Intermetallic $\hat{\Gamma}^3$ -TiAl-Based Alloys: Recent Progress Enabled by In Situ Synchrotron X-Ray Techniques. <i>Advanced Engineering Materials</i> , 2021, 23, 2000947.	1.6	9
246	Influence of Nb on Ti diffusion in $\hat{\Gamma}^3$ -TiAl intermetallics studied by mechanical spectroscopy. <i>Journal of Alloys and Compounds</i> , 2021, 867, 158880.	2.8	9
247	Rate-depending plastic deformation behaviour in a nickel-base alloy under hydrogen influence. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 38132-38143.	3.8	9
248	X-Ray Strain Measurements in IV-VI-Semiconductor Superlattices at Low Temperature. , 1984, , 171-178.		9
249	SEM and TEM Investigations of Recovery and Recrystallization in Technically Pure Molybdenum. <i>Praktische Metallographie/Practical Metallography</i> , 2011, 48, 344-355.	0.1	9
250	Magneto-optical properties of PbTe doping superlattices. <i>European Physical Journal B</i> , 1987, 67, 475-481.	0.6	8
251	Thermal-cycling creep of $\hat{\Gamma}^3$ -TiAl-based alloys. <i>Intermetallics</i> , 2000, 8, 339-343.	1.8	8
252	Adjustment of Differently Spaced Fully Lamellar Microstructures in a $\hat{\Gamma}^3$ -TiAl Based Alloy and their Creep Behaviour. , 2006, , 233-239.		8

#	ARTICLE	IF	CITATIONS
253	In-situ small-angle X-ray scattering study of the precipitation behavior in a Fe-25At.%Co-9At.%Mo alloy. <i>Materials Characterization</i> , 2008, 59, 1809-1813.	1.9	8
254	Development Status, Applications and Perspectives of Advanced Intermetallic Titanium Aluminides. <i>Materials Science Forum</i> , 0, 783-786, 15-20.	0.3	8
255	In Situ Investigation of the Rapid Solidification Behavior of Intermetallic $\hat{\text{T}}^3\hat{\text{a}}\hat{\text{T}}\hat{\text{a}}\hat{\text{B}}$ -Based Alloys Using High-Energy X-Ray Diffraction. <i>Advanced Engineering Materials</i> , 2021, 23, 2100557.	1.6	8
256	Assessment of grain boundary cohesion of technically pure and boron micro-doped molybdenum via meso-scale three-point-bending experiments. <i>Materials and Design</i> , 2021, 207, 109848.	3.3	8
257	PbTe-doping superlattices? A new type of high sensitivity infrared detector. <i>European Physical Journal B</i> , 1987, 67, 467-473.	0.6	7
258	Growth of BaF ₂ and of BaF ₂ /SrF ₂ layers on (001)-oriented GaAs. <i>Journal of Applied Physics</i> , 1989, 66, 1680-1686.	1.1	7
259	Interpretation of photoluminescence spectra in partially interdiffused superlattices. <i>Superlattices and Microstructures</i> , 1989, 5, 93-98.	1.4	7
260	Growth and characterization of dilute magnetic PbTe/Pb _{1-x} MnxTe superlattices. <i>Surface Science</i> , 1990, 228, 236-239.	0.8	7
261	Strain Rate Dependence of the Deformation Mechanisms in a Fully Lamellar $\hat{\text{T}}^3\hat{\text{a}}\hat{\text{T}}\hat{\text{a}}$ -Based Alloy. <i>International Journal of Materials Research</i> , 2002, 93, 180-185.	0.8	7
262	Ausscheidungscharakterisierung in einer Fe-Co-Mo Legierung mittels komplementärer Methoden. <i>BHM-Zeitschrift fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2008, 153, 247-252.	0.4	7
263	Short-term Creep Behavior of an X 37 Cr Mo V 5-1 Hot-work Tool Steel with almost Bainitic and fully Martensitic Microstructures. <i>Steel Research International</i> , 2010, 81, 569-575.	1.0	7
264	Can local hot spots induce $\hat{\text{T}}^2\hat{\text{T}}^3$ lamellae during incomplete massive transformation of $\hat{\text{T}}^3\hat{\text{a}}\hat{\text{T}}\hat{\text{a}}$ alloys?. <i>Intermetallics</i> , 2010, 18, 972-976.	1.8	7
265	Thermodynamic description of niobium-rich $\hat{\text{T}}^3\hat{\text{a}}\hat{\text{T}}\hat{\text{a}}$ alloys. <i>International Journal of Materials Research</i> , 2011, 102, 692-696.	0.1	7
266	Optimized Hot-forming of an Intermetallic Multi-phase $\hat{\text{T}}^3\hat{\text{a}}\hat{\text{T}}\hat{\text{a}}$ Based Alloy. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1516, 29-34.	0.1	7
267	New findings on the atomistic mechanisms active during mechanical milling of a Fe-Y ₂ O ₃ model alloy. <i>Journal of Applied Physics</i> , 2014, 115, 124313.	1.1	7
268	Constitutive Analysis and Microstructure Evolution of the High-Temperature Deformation Behavior of an Advanced Intermetallic Multi-Phase $\hat{\text{T}}^3\hat{\text{a}}\hat{\text{T}}\hat{\text{a}}$ -Based Alloy. <i>Advanced Materials Research</i> , 0, 922, 807-812.	0.3	7
269	Martensitic Transformation of a High-speed Tool Steel During Continuous Heat Treatment. <i>Materials Today: Proceedings</i> , 2015, 2, S635-S638.	0.9	7
270	Crack Initiation and Crack Growth Resistance of Ti-48Al-2Cr Sheet Material. <i>Scripta Materialia</i> , 1998, 38, 1041-1049.	2.6	6

#	ARTICLE	IF	CITATIONS
271	Characterisation of precipitates in a stainless maraging steel by three-dimensional atom probe and small-angle neutron scattering. International Journal of Materials Research, 2004, 95, 644-649.	0.8	6
272	Continuum Mechanics of Deformation Twinning – A Review. Multidiscipline Modeling in Materials and Structures, 2006, 2, 167-187.	0.6	6
273	Microstructure and Texture Formation During Near Conventional Forging of an Intermetallic Ti-45Al-5Nb Alloy. Advanced Engineering Materials, 2009, 11, 976-981.	1.6	6
274	Texture Formation during Hot-Deformation of High-Nb Containing β -TiAl Based Alloys. Solid State Phenomena, 0, 160, 301-306.	0.3	6
275	In Situ High-Energy XRD Study of the Hot-Deformation Behavior of a Novel β -TiAl Alloy. Materials Research Society Symposia Proceedings, 2012, 1516, 71-76.	0.1	6
276	The Use of In Situ Characterization Techniques for the Development of Intermetallic Titanium Aluminides. Materials Science Forum, 0, 783-786, 2097-2102.	0.3	6
277	Atom Probe Tomography of Carbides Occurring in Carbide-free Bainitic Steels. Materials Today: Proceedings, 2015, 2, S925-S928.	0.9	6
278	Non-equilibrium solid solution of molybdenum and sodium: Atomic scale experimental and first principles studies. Acta Materialia, 2018, 144, 700-706.	3.8	6
279	High Temperature Laser-Scanning Confocal Microscopy for the in-situ Investigation of Grain Growth and Phase Transformations in Intermetallic β -TiAl based Alloys. Praktische Metallographie/Practical Metallography, 2015, 52, 259-269.	0.1	6
280	Microstructural and Phase Analysis of an Additively Manufactured Intermetallic TiAl Alloy using Metallographic Techniques and High-Energy X-Rays. Praktische Metallographie/Practical Metallography, 2020, 57, 84-95.	0.1	6
281	Tensile Properties and Deformation Mechanisms in Two-Phase Titanium Aluminide Sheet Material. Materials Research Society Symposia Proceedings, 1996, 460, 195.	0.1	5
282	On the texture of spray formed gamma titanium aluminide. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 416, 11-17.	2.6	5
283	Structure Models of Massively Transformed High Niobium Containing TiAl Alloys. Materials Research Society Symposia Proceedings, 2006, 980, 1.	0.1	5
284	Characterization of Phospholipid Bilayers on Ti-6Al-4V and Ti-6Al-7Nb. Advanced Engineering Materials, 2008, 10, B47.	1.6	5
285	In situ small-angle neutron scattering study of the early stages of precipitation in Fe-25at% Co-9at% Mo and Fe-1at% Cu at 500 °C. Journal of Physics: Conference Series, 2010, 247, 012038.	0.3	5
286	Application of Photons and Neutrons for the Characterization and Development of Advanced Steels. Advanced Engineering Materials, 2011, 13, 664-673.	1.6	5
287	Complementary High Spatial Resolution Methods in Materials Science and Engineering. Advanced Engineering Materials, 2017, 19, 1600671.	1.6	5
288	Atom probe study of B2 order and A2 disorder of the FeCo matrix in an Fe-Co-Mo-alloy. Micron, 2017, 98, 24-33.	1.1	5

#	ARTICLE	IF	CITATIONS
289	Thermodynamic evaluation of the Mo-rich corner of the Mo-Hf-C system including O impurities. <i>Journal of Alloys and Compounds</i> , 2017, 695, 372-381.	2.8	5
290	Thermal Expansion of a Multiphase Intermetallic Ti-Al-Nb-Mo Alloy Studied by High-Energy X-ray Diffraction. <i>Materials</i> , 2021, 14, 727.	1.3	5
291	High temperature nanoindentation as a tool to investigate plasticity upon phase transformations demonstrated on Cobalt. <i>Materialia</i> , 2021, 16, 101084.	1.3	5
292	An atomistic view on Oxygen, antisites and vacancies in the $\langle \text{TiAl} \rangle$ phase. <i>Computational Materials Science</i> , 2021, 197, 110655.	1.4	5
293	X-Ray Strain Measurements in IV-VI Semiconductor Super-Lattices at Low Temperature. <i>Advances in X-ray Analysis</i> , 1983, 27, 171-178.	0.0	5
294	Dynamic Recovery and Recrystallization during Hot-Working in an Advanced TiAl Alloy. <i>Praktische Metallographie/Practical Metallography</i> , 2011, 48, 632-642.	0.1	5
295	Optimization of the Post-Process Heat Treatment Strategy for a Near- β Titanium Base Alloy Produced by Laser Powder Bed Fusion. <i>Materials</i> , 2022, 15, 1032.	1.3	5
296	Phase transformations and phase stability in the Ti-44 at.%Al-(0-7 at.%)Mo system. <i>Intermetallics</i> , 2022, 143, 107484.	1.8	5
297	Epitaxial growth of PBTE doping superlattices on (111) BaF ₂ and (100) GaAs. , 1988, , 281-285.		4
298	Influence of the BaF ₂ substrate preparation on the structural perfection of epitaxially grown IV-VI compounds. <i>Journal of Crystal Growth</i> , 1990, 102, 933-938.	0.7	4
299	Microstructure and mechanical properties of Si and YN doped powder metallurgical tantalum. <i>International Journal of Materials Research</i> , 2004, 95, 573-578.	0.8	4
300	Spin configurations in strained magnetic superlattices grown by molecular beam epitaxy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 32, 379-382.	1.3	4
301	A Study of Recrystallization and Phase Transitions in Intermetallic Titanium Aluminides by In Situ High-Energy X-Ray Diffraction. <i>Materials Science Forum</i> , 2007, 539-543, 1519-1524.	0.3	4
302	Short-term creep behavior of a Cr Mo V hot-work tool steel. <i>International Journal of Materials Research</i> , 2009, 100, 1066-1073.	0.1	4
303	Electrons Meet Alloy Development: A β -TiAl-Based Alloy Showcase. <i>Advanced Engineering Materials</i> , 2022, 24, 2100977.	1.6	4
304	Preparation Methods for Examining the α -Phase Formation in a β -Solidifying TiAl Alloy via Atom Probe Tomography. <i>Praktische Metallographie/Practical Metallography</i> , 2016, 53, 73-85.	0.1	4
305	Internal Friction and Creep of Titanium Aluminides with Different Microstructure. <i>International Journal of Materials Research</i> , 2022, 92, 1019-1025.	0.1	4
306	Effects of Thermomechanical Processing on Texture Formation in Titanium Aluminides. <i>Materials Science Forum</i> , 2002, 408-412, 1777-1782.	0.3	3

#	ARTICLE	IF	CITATIONS
307	Creep Properties of a High Niobium Containing $\hat{\gamma}$ -TiAl Alloy Sheet Material. Materials Research Society Symposia Proceedings, 2002, 753, 1.	0.1	3
308	USANS investigation of early stages of metal foam formation. Applied Physics A: Materials Science and Processing, 2002, 74, s1136-s1138.	1.1	3
309	Massive Transformation in High Niobium Containing TiAl-Alloys. Materials Research Society Symposia Proceedings, 2004, 842, 31.	0.1	3
310	Experimental Studies and Thermodynamic Simulation of Phase Transformations in $\hat{\gamma}$ -TiAl Based Alloys. Materials Research Society Symposia Proceedings, 2004, 842, 363.	0.1	3
311	Microstructure and Mechanical Properties of a C/C-Cu Joint Developed for Plasma Facing Components. Advanced Engineering Materials, 2006, 8, 1092-1096.	1.6	3
312	Diffraction-Based Residual Stress Analysis Applied to Problems in the Aircraft Industry. Advanced Engineering Materials, 2007, 9, 627-638.	1.6	3
313	Oxidation Resistance and Ductility of a Coated $\hat{\gamma}$ -TiAl Based Alloy. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2008, 153, 268-272.	0.4	3
314	Hot-die Forging of a $\hat{\gamma}$ -stabilized $\hat{\gamma}$ -TiAl Based Alloy. Materials Research Society Symposia Proceedings, 2008, 1128, 30501.	0.1	3
315	Short-term creep behavior of chromium rich hot-work tool steels. Materialwissenschaft Und Werkstofftechnik, 2010, 41, 18-28.	0.5	3
316	SANS Study of Carbon Addition in Ti-45Al-5Nb. Materials Research Society Symposia Proceedings, 2011, 1295, 195.	0.1	3
317	Characterization of Residual Stresses in 718 Turbine Discs by Neutron Diffraction and Finite Element Modelling. Advanced Materials Research, 0, 278, 102-107.	0.3	3
318	First Investigations on a TNM TiAl Alloy Processed by Spark Plasma Sintering. Materials Research Society Symposia Proceedings, 2012, 1516, 17-22.	0.1	3
319	Distribution of Alloying Elements within the Constituent Phases of a C-containing $\hat{\gamma}$ -TiAl Based Alloy studied by Atom Probe Tomography. Materials Research Society Symposia Proceedings, 2014, 1760, 7.	0.1	3
320	Texture Evolution during Deformation of a Mo-Hf-C Alloy Studied with Electron Backscatter Diffraction. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2015, 160, 226-230.	0.4	3
321	Boron Grain Boundary Segregation in a Heat Treatable Steel. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2015, 160, 204-208.	0.4	3
322	Controlling the high temperature deformation behavior and thermal stability of ultra-fine-grained W by re alloying. Journal of Materials Research, 2021, 36, 2408-2419.	1.2	3
323	Influence of the Sample Preparation Technique on the $\hat{\gamma}$ Phase Fraction Analysis in a Fe-25Co-15Mo Alloy by Means of XRD. Praktische Metallographie/Practical Metallography, 2015, 52, 323-333.	0.1	3
324	Physical metallurgy of high Nb-containing TiAl alloys. International Journal of Materials Research, 2022, 95, 585-591.	0.1	3

#	ARTICLE	IF	CITATIONS
325	Revealing dynamic processes in laser powder bed fusion with <i>in situ</i> X-ray diffraction at PETRA III. <i>Review of Scientific Instruments</i> , 2022, 93, 065104.	0.6	3
326	How Si affects the microstructural evolution and phase transformations of intermetallic β -TiAl based alloys. <i>Materialia</i> , 2022, 24, 101475.	1.3	3
327	Transport and magneto-optical properties of PbTe doping superlattices. <i>Surface Science</i> , 1986, 174, 561-566.	0.8	2
328	Observation of electronic subbands in PbTe nipi structures. <i>Superlattices and Microstructures</i> , 1987, 3, 225-229.	1.4	2
329	Creep Behavior and Microstructural Stability of Lamellar β -TiAl (Cr, Mo, Si, B) with Extremely Fine Lamellar Spacing. <i>Materials Research Society Symposia Proceedings</i> , 2000, 646, 125.	0.1	2
330	Texture analyses in titanium aluminide alloys by neutron diffraction. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1222-s1223.	1.1	2
331	Characterization of biocompatible Ti(CNO) layers on polymeric substrates. <i>Applied Surface Science</i> , 2003, 219, 329-337.	3.1	2
332	A Study of the Deformation Behavior of Lamellar β -TiAl by Numeric Modeling. <i>Materials Research Society Symposia Proceedings</i> , 2004, 842, 447.	0.1	2
333	Phase Transitions and Recrystallization in a Ti-46at%Al-9at%Nb Alloy as Observed by In-Situ High-Energy X-ray Diffraction. <i>Materials Research Society Symposia Proceedings</i> , 2006, 980, 7.	0.1	2
334	Texture Formation in High Niobium Containing TiAl Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2006, 980, 1.	0.1	2
335	Examination of C/C flat tile mock-ups with hypervapotron cooling after high heat flux testing. <i>Fusion Engineering and Design</i> , 2007, 82, 299-305.	1.0	2
336	Isothermal aging kinetics of NiAl precipitates in a secondary hardening steel. <i>International Journal of Microstructure and Materials Properties</i> , 2008, 3, 373.	0.1	2
337	Thermal stability of high-speed steels as characterized by X-ray diffraction profile analysis. <i>International Journal of Materials Research</i> , 2009, 100, 1109-1113.	0.1	2
338	Behaviour of a maraging steel under quasi-static and dynamic compressive loading. <i>International Journal of Microstructure and Materials Properties</i> , 2010, 5, 65.	0.1	2
339	High Temperature Oxidation Protection of Multi-Phase Mo-Containing TiAl-Alloys by the Fluorine Effect. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1516, 95-100.	0.1	2
340	B2 order transformation in a Fe \approx 25 at% Co \approx 9 at% Mo alloy. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1760, 175.	0.1	2
341	In-situ High-energy X-ray Diffraction on an Intermetallic β -stabilised β -TiAl Based Alloy. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2015, 160, 221-225.	0.4	2
342	Oxidation Protection of Multiphase Mo-Containing β -TiAl-Based Alloys under Cyclic Test Conditions. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1760, 205.	0.1	2

#	ARTICLE	IF	CITATIONS
343	Enhancement of the Application Temperature of Titanium Aluminides. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2015, 160, 342-345.	0.4	2
344	Characterization of anisotropic pores and spatially oriented precipitates in sintered Mo-base alloys using small-angle neutron scattering. Journal of Applied Crystallography, 2018, 51, 1706-1714.	1.9	2
345	Microstructure Characterization of Intermetallic $\hat{3}$ -TiAl Based Alloys after High-Temperature Deformation. Praktische Metallographie/Practical Metallography, 2015, 52, 239-248.	0.1	2
346	Investigation of the Precipitation Behavior of H-Carbides in a TiAl Alloy containing Carbon by means of in- and ex-situ Characterization. Praktische Metallographie/Practical Metallography, 2018, 55, 693-703.	0.1	2
347	Multi-Scale Microstructural Characterization. Praktische Metallographie/Practical Metallography, 2018, 55, 584-602.	0.1	2
348	Microstructural Characterization of Molybdenum Grain Boundaries by Micropillar Compression Testing and Atom Probe Tomography. Praktische Metallographie/Practical Metallography, 2019, 56, 776-786.	0.1	2
349	Geometrical model for calculating the effect of surface morphology on total x-ray output of medical x-ray tubes. Medical Physics, 2021, 48, 1546-1556.	1.6	2
350	Gefügecharakterisierung eines Warmarbeitsstahls mit martensitisch- bainitischem Mischgefüge. Praktische Metallographie/Practical Metallography, 2007, 44, 182-192.	0.1	2
351	Microstructural adjustment of hot-rolled Ti-6Al-4V based on a CCT diagram. Materials Science and Technology, 2022, 38, 957-964.	0.8	2
352	Mechanical Properties of $\hat{3}$ -TiAl Based Alloys at Elevated Temperatures. Materials Research Society Symposia Proceedings, 2000, 646, 92.	0.1	1
353	Creep Behavior and Microstructural Stability of Ti-46Al-9Nb with Different Microstructures. Materials Research Society Symposia Proceedings, 2004, 842, 477.	0.1	1
354	Small-Angle Neutron Scattering. , 0, , 239-248.		1
355	Microstructure and Tensile Ductility of a Ti-43Al-4Nb-1Mo-0.1B Alloy. Materials Research Society Symposia Proceedings, 2008, 1128, 30801.	0.1	1
356	In Situ TEM Heating Study of the $\hat{3}$ Lamellae Formation inside the $\hat{2}$ Matrix of a Ti-45Al-7.5Nb Alloy. Advanced Materials Research, 0, 146-147, 1365-1368.	0.3	1
357	Physical Metallurgy and Properties of $\hat{2}$ -solidifying TiAl Based Alloys. Materials Research Society Symposia Proceedings, 2011, 1295, 95.	0.1	1
358	Hot Deformation of Cast and Extruded TiAl: An In Situ Diffraction Study. Materials Science Forum, 0, 706-709, 1725-1730.	0.3	1
359	Relaxation Processes at High Temperature in TiAl-Nb-Mo Intermetallics. Materials Research Society Symposia Proceedings, 2012, 1516, 41-46.	0.1	1
360	Einfluss der Schweißparameter auf das Ermüdungsverhalten hochfester Baustähle. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 889-896.	0.5	1

#	ARTICLE	IF	CITATIONS
361	Advanced intermetallic β -TiAl based alloys with improved microstructural stability during creep. Materials Research Society Symposia Proceedings, 2014, 1760, 67.	0.1	1
362	Constitutive Analysis of the Flow Curve Behavior of an Intermetallic β -solidifying β -TiAl-based Alloy and Microstructural Characterization of the Deformed State. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2014, 159, 286-288.	0.4	1
363	The Use of Fluorine to Protect β -Solidifying β -TiAl-Based Alloys against High-Temperature Oxidation. MRS Advances, 2017, 2, 1361-1367.	0.5	1
364	Creep of β -TiAl Based Alloys – Experiments and Computational Modeling. Solid Mechanics and Its Applications, 2001, , 17-30.	0.1	1
365	Friction Welding of Intermetallic Titanium Aluminides: Microstructural Evolution and Mechanical Properties. Praktische Metallographie/Practical Metallography, 2011, 48, 572-581.	0.1	1
366	The Role of Metallography in the Development and Characterization of High-Performance Materials. Praktische Metallographie/Practical Metallography, 2015, 52, 59-74.	0.1	1
367	<i>In situ</i> fracture observations of distinct interface types within a fully lamellar intermetallic TiAl alloy. Journal of Materials Research, 0, , 1-14.	1.2	1
368	Microstructure Evolution of a New Precipitation-Strengthened Fe-Al-Ni-Ti Alloy down to Atomic Scale. Metals, 2022, 12, 906.	1.0	1
369	Optical investigation of PbTe doping superlattices. Superlattices and Microstructures, 1991, 9, 427-431.	1.4	0
370	Auswirkungen von statischen LangzeitlÃ¼hungen auf GefÃ¼ge und mechanische Eigenschaften einer β -TiAl Basislegierung. Materialwissenschaft Und Werkstofftechnik, 2003, 34, 499-504.	0.5	0
371	Internal Friction of a High-Nb Gamma-TiAl-Based Alloy with Different Microstructures. Materials Research Society Symposia Proceedings, 2004, 842, 483.	0.1	0
372	Control of Fully Lamellar Microstructures in a β -TiAl Based Alloy. , 2006, , 134-139.		0
373	Characterization of the behavior under impact loading of a maraging steel strengthened by nano-precipitates. European Physical Journal Special Topics, 2006, 134, 839-844.	0.2	0
374	Intermetallische Titanaluminide: Werkstoffe fÃ¼r hohe Temperaturen. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2006, 151, 195-199.	0.4	0
375	Precipitation-Induced Nano-Twinning. Materials Research Society Symposia Proceedings, 2006, 980, 6.	0.1	0
376	On The Influence of Nb on the Transition Temperatures of Titanium Aluminides. Materials Research Society Symposia Proceedings, 2006, 980, 3.	0.1	0
377	Diffraction-Based Residual Stress Analysis Applied to Problems in the Aircraft Industry. , 0, , 387-411.		0
378	Initial Stages of Lamellae Formation in High Nb Containing β -TiAl Based Alloys. Materials Research Society Symposia Proceedings, 2008, 1128, 40701.	0.1	0

#	ARTICLE	IF	CITATIONS
379	On the Behavior of Ytria/Yttrium during Mechanical Alloying of a Fe - Y ₂ O ₃ Model Alloy System. Advanced Materials Research, 0, 922, 598-603.	0.3	0
380	15.ÂInternationale Metallographie-Tagung. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2019, 164, 191-191.	0.4	0
381	Local-probe based electrical characterization of a multiphase intermetallic $\hat{1}^3$ -TiAl based alloy. Journal of Applied Physics, 2021, 129, 205107.	1.1	0
382	Intra- and Interband Magneto-optical Investigations of PbTe/Pb $\hat{1}^x$ SnxTe Superlattices. , 1985, , 543-546.		0
383	Characterization of the Crack Initiation and Crack Propagation Behavior of Welded Steels by Means of the Replica Technique. Praktische Metallographie/Practical Metallography, 2014, 51, 557-567.	0.1	0
384	Influence of Discontinuous Precipitation on the Creep Behavior of a $\hat{1}^2$ -Solidified $\hat{1}^3$ -TiAl Based Alloy. Praktische Metallographie/Practical Metallography, 2015, 52, 249-258.	0.1	0
385	Impact of the Microstructure of Refractory Metals on their Mechanical Properties â€“ a Multi-Scale Study. Praktische Metallographie/Practical Metallography, 2018, 55, 603-619.	0.1	0
386	Beryllium â€“ A Challenge for Preparation and Mechanical Characterization. Praktische Metallographie/Practical Metallography, 2019, 56, 624-633.	0.1	0
387	The Development and Characterization of High-Performance Materials: A Retrospective Article. Praktische Metallographie/Practical Metallography, 2020, 57, 614-649.	0.1	0
388	Characterisation of precipitates in a stainless maraging steel by three-dimensional atom probe and small-angle neutron scattering. International Journal of Materials Research, 2022, 95, 644-649.	0.1	0