

Helmut Clemens

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/705077/helmut-clemens-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

404
papers

11,078
citations

50
h-index

91
g-index

412
ext. papers

12,455
ext. citations

3.3
avg. IF

6.54
L-index

#	Paper	IF	Citations
404	Phase transformations and phase stability in the Ti ₄₄ at.%Al(0.7 at.%Mo) system. <i>Intermetallics</i> , 2022 , 143, 107484	3.5	1
403	Physical metallurgy of high Nb-containing TiAl alloys. <i>International Journal of Materials Research</i> , 2022 , 95, 585-591	0.5	1
402	Characterisation of precipitates in a stainless maraging steel by three-dimensional atom probe and small-angle neutron scattering. <i>International Journal of Materials Research</i> , 2022 , 95, 644-649	0.5	
401	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	8.4	1
400	In-situ observation of the phase evolution during an electromagnetic-assisted sintering experiment of an intermetallic TiAl based alloy. <i>Scripta Materialia</i> , 2022 , 206, 114233	5.6	1
399	Internal Friction and Creep of Titanium Aluminides with Different Microstructure. <i>International Journal of Materials Research</i> , 2022 , 92, 1019-1025	0.5	
398	Microstructure Evolution of a New Precipitation-Strengthened FeAlNiTi Alloy down to Atomic Scale. <i>Metals</i> , 2022 , 12, 906	2.3	
397	Geometrical model for calculating the effect of surface morphology on total x-ray output of medical x-ray tubes. <i>Medical Physics</i> , 2021 , 48, 1546-1556	4.4	1
396	How electron beam melting tailors the Al-sensitive microstructure and mechanical response of a novel process-adapted TiAl based alloy. <i>Materials and Design</i> , 2021 , 212, 110187	8.1	3
395	Laser powder bed fusion of an engineering intermetallic TiAl alloy. <i>Materials and Design</i> , 2021 , 201, 109506	5.6	4
394	Designing advanced intermetallic titanium aluminide alloys for additive manufacturing. <i>Intermetallics</i> , 2021 , 131, 107109	3.5	21
393	Local-probe based electrical characterization of a multiphase intermetallic TiAl based alloy. <i>Journal of Applied Physics</i> , 2021 , 129, 205107	2.5	
392	High temperature nanoindentation as a tool to investigate plasticity upon phase transformations demonstrated on Cobalt. <i>Materialia</i> , 2021 , 16, 101084	3.2	1
391	Influence of Nb on Ti diffusion in TiAl intermetallics studied by mechanical spectroscopy. <i>Journal of Alloys and Compounds</i> , 2021 , 867, 158880	5.7	5
390	Pulvermetallurgische Herstellung von innovativen Hochtemperaturwerkstoffen. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2021 , 166, 1-7	0.6	0
389	Exploring Structural Changes, Manufacturing, Joining, and Repair of Intermetallic TiAl-Based Alloys: Recent Progress Enabled by In Situ Synchrotron X-Ray Techniques. <i>Advanced Engineering Materials</i> , 2021 , 2000947	3.5	4
388	An Additively Manufactured Titanium Alloy in the Focus of Metallography. <i>Praktische Metallographie/Practical Metallography</i> , 2021 , 58, 4-31	0.3	5

387	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	2.5	4
386	Thermal Expansion of a Multiphase Intermetallic Ti-Al-Nb-Mo Alloy Studied by High-Energy X-ray Diffraction. <i>Materials</i> , 2021 , 14,	3.5	4
385	An atomistic view on Oxygen, antisites and vacancies in the β TiAl phase. <i>Computational Materials Science</i> , 2021 , 197, 110655	3.2	1
384	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	8.1	2
383	Grain boundary segregation in Ni-base alloys: a combined atom probe tomography and first principles study. <i>Acta Materialia</i> , 2021 , 221, 117354	8.4	8
382	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	3.3	7
381	Microstructure and mechanical properties of novel TiAl alloys tailored via phase and precipitate morphology. <i>Intermetallics</i> , 2021 , 138, 107316	3.5	2
380	Effects of tungsten alloying and fluorination on the oxidation behavior of intermetallic titanium aluminides for aerospace applications. <i>Intermetallics</i> , 2021 , 139, 107270	3.5	2
379	Controlling the high temperature deformation behavior and thermal stability of ultra-fine-grained W by re alloying. <i>Journal of Materials Research</i> , 2021 , 36, 2408-2419	2.5	3
378	A Modified Electrochemical Nanoindentation Setup for Probing Hydrogen-Material Interaction Demonstrated on a Nickel-Based Alloy. <i>Jom</i> , 2020 , 72, 2020-2029	2.1	4
377	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	5.3	3
376	Heat Treatments and Critical Quenching Rates in Additively Manufactured Al-Si-Mg Alloys. <i>Materials</i> , 2020 , 13,	3.5	10
375	Microstructural and Phase Analysis of an Additively Manufactured Intermetallic TiAl Alloy using Metallographic Techniques and High-Energy X-Rays. <i>Praktische Metallographie/Practical Metallography</i> , 2020 , 57, 84-95	0.3	5
374	The Development and Characterization of High-Performance Materials: A Retrospective Article. <i>Praktische Metallographie/Practical Metallography</i> , 2020 , 57, 614-649	0.3	
373	An Advanced TiAl Alloy for High-Performance Racing Applications. <i>Materials</i> , 2020 , 13,	3.5	12
372	High-temperature phenomena in an advanced intermetallic nano-lamellar β TiAl-based alloy. Part I: Internal friction and atomic relaxation processes. <i>Acta Materialia</i> , 2020 , 200, 442-454	8.4	5
371	Mikrostrukturelle Charakterisierung einer pulvermetallurgisch hergestellten mehrphasigen TiAl-Legierung. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2019 , 164, 210-214	0.6	
370	Microstructural Evolution and Mechanical Properties of an Advanced β TiAl Based Alloy Processed by Spark Plasma Sintering. <i>Materials</i> , 2019 , 12,	3.5	13

369	Thermal Expansion and Other Thermodynamic Properties of β -TiAl and β -TiAl Intermetallic Phases from First Principles Methods. <i>Materials</i> , 2019 , 12,	3.5	9
368	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	8.1	12
367	The creep behavior of a fully lamellar β -TiAl based alloy. <i>Intermetallics</i> , 2019 , 114, 106611	3.5	10
366	Electron Beam Melting of a β -Solidifying Intermetallic Titanium Aluminide Alloy. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900800	3.5	17
365	Microstructural Characterization of Molybdenum Grain Boundaries by Micropillar Compression Testing and Atom Probe Tomography. <i>Praktische Metallographie/Practical Metallography</i> , 2019 , 56, 776-786	0.3	1
364	Selected Methods of Quantitative Phase Analysis of an Additively Manufactured TNM Titanium Aluminide Alloy. <i>Praktische Metallographie/Practical Metallography</i> , 2019 , 56, 220-229	0.3	9
363	Metallography of Intermetallic Titanium Aluminides [The (Additive) Manufacturing Makes the Difference. <i>Praktische Metallographie/Practical Metallography</i> , 2019 , 56, 567-584	0.3	8
362	Beryllium [A Challenge for Preparation and Mechanical Characterization. <i>Praktische Metallographie/Practical Metallography</i> , 2019 , 56, 624-633	0.3	
361	Evidence of an orthorhombic transition phase in a Ti-44Al-3Mo (at.%) alloy using in situ synchrotron diffraction and transmission electron microscopy. <i>Materials Characterization</i> , 2019 , 147, 398-405	3.9	9
360	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	8.4	17
359	Tailoring microstructure and chemical composition of advanced β -TiAl based alloys for improved creep resistance. <i>Intermetallics</i> , 2018 , 97, 27-33	3.5	35
358	How grain boundary chemistry controls the fracture mode of molybdenum. <i>Materials and Design</i> , 2018 , 142, 36-43	8.1	28
357	Pathways of phase transformation in β -phase-stabilized β -TiAl alloys subjected to two-step heat treatments. <i>Scripta Materialia</i> , 2018 , 149, 70-74	5.6	11
356	High-resolution characterization of the martensite-austenite constituent in a carbide-free bainitic steel. <i>Materials Characterization</i> , 2018 , 144, 182-190	3.9	14
355	Lattice and phase strain evolution during tensile loading of an intermetallic, multi-phase β -TiAl based alloy. <i>Acta Materialia</i> , 2018 , 158, 193-205	8.4	27
354	Grain boundary segregation engineering in as-sintered molybdenum for improved ductility. <i>Scripta Materialia</i> , 2018 , 156, 60-63	5.6	32
353	Characterization of anisotropic pores and spatially oriented precipitates in sintered Mo-base alloys using small-angle neutron scattering. <i>Journal of Applied Crystallography</i> , 2018 , 51, 1706-1714	3.8	1
352	Investigation of the Precipitation Behavior of H-Carbides in a TiAl Alloy containing Carbon by means of in- and ex-situ Characterization. <i>Praktische Metallographie/Practical Metallography</i> , 2018 , 55, 693-703	0.3	2

351	Multi-Scale Microstructural Characterization. <i>Praktische Metallographie/Practical Metallography</i> , 2018 , 55, 584-602	0.3	2
350	Aspects of Powder Characterization for Additive Manufacturing. <i>Praktische Metallographie/Practical Metallography</i> , 2018 , 55, 620-636	0.3	11
349	Impact of the Microstructure of Refractory Metals on their Mechanical Properties in a Multi-Scale Study. <i>Praktische Metallographie/Practical Metallography</i> , 2018 , 55, 603-619	0.3	
348	Non-equilibrium solid solution of molybdenum and sodium: Atomic scale experimental and first principles studies. <i>Acta Materialia</i> , 2018 , 144, 700-706	8.4	6
347	Advanced Titanium Aluminides - How to Improve the Creep Resistance via Compositional and Microstructural Optimization. <i>Materials Science Forum</i> , 2018 , 941, 1484-1489	0.4	7
346	Metallurgical processing of titanium aluminides on industrial scale. <i>Intermetallics</i> , 2018 , 103, 12-22	3.5	39
345	Effect of hot rolling and primary annealing on the microstructure and texture of a stabilized TiAl based alloy. <i>Acta Materialia</i> , 2017 , 126, 145-153	8.4	52
344	Influence of Heat Treatment on Microstructure Stability and Mechanical Properties of a Carbide-Free Bainitic Steel. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600658	3.5	9
343	Complementary High Spatial Resolution Methods in Materials Science and Engineering. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600671	3.5	4
342	Microstructure and Properties of Engineering Materials 2017 , 1-20		8
341	Small-Angle Neutron Scattering 2017 , 207-216		
340	The Use of Neutron and Synchrotron Research for Aerospace and Automotive Materials and Components 2017 , 327-364		
339	Internal Stresses in Engineering Materials 2017 , 21-53		
338	In situ Experiments with Synchrotron High-Energy X-rays and Neutrons 2017 , 365-375		
337	Application of Photons and Neutrons for the Characterization and Development of Advanced Steels 2017 , 377-393		
336	Stress Analysis by Angle-Dispersive Neutron Diffraction 2017 , 105-122		
335	The Contribution of High-Energy X-rays and Neutrons to Characterization and Development of Intermetallic Titanium Aluminides 2017 , 395-424		
334	Intermetallic Solidifying TiAl Based Alloys From Fundamental Research to Application. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600735	3.5	99

333	Impact of Mo on the β phase in β solidifying TiAl alloys: An experimental and computational approach. <i>Intermetallics</i> , 2017 , 85, 26-33	3.5	12
332	Mechanical behavior and related microstructural aspects of a nano-lamellar TiAl alloy at elevated temperatures. <i>Acta Materialia</i> , 2017 , 128, 440-450	8.4	60
331	The Use of Fluorine to Protect β Solidifying β TiAl-Based Alloys against High-Temperature Oxidation. <i>MRS Advances</i> , 2017 , 2, 1361-1367	0.7	1
330	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	8.1	22
329	Internal friction and atomic relaxation processes in an intermetallic Mo-rich Ti-44Al-7Mo ($\beta\beta$) model alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 700, 495-502	5.3	10
328	Atom probe study of B2 order and A2 disorder of the FeCo matrix in an Fe-Co-Mo-alloy. <i>Micron</i> , 2017 , 98, 24-33	2.3	2
327	Phase transformations in a β Solidifying β TiAl based alloy during rapid solidification. <i>Intermetallics</i> , 2017 , 91, 100-109	3.5	29
326	On grain boundary segregation in molybdenum materials. <i>Materials and Design</i> , 2017 , 135, 204-212	8.1	32
325	Insights into the deformation behavior of the CrMnFeCoNi high-entropy alloy revealed by elevated temperature nanoindentation. <i>Journal of Materials Research</i> , 2017 , 32, 2658-2667	2.5	32
324	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	5.7	4
323	Effect of microstructural instability on the creep resistance of an advanced intermetallic β TiAl based alloy. <i>Intermetallics</i> , 2017 , 80, 1-9	3.5	43
322	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	8.1	51
321	Impact of Alloying on Stacking Fault Energies in β TiAl. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1193	2.6	14
320	Advanced Intermetallic TiAl Alloys. <i>Materials Science Forum</i> , 2016 , 879, 113-118	0.4	19
319	Experimental and theoretical evidence of displacive martensite in an intermetallic Mo-containing β TiAl based alloy. <i>Acta Materialia</i> , 2016 , 115, 242-249	8.4	44
318	Fracture Behavior and Delamination Toughening of Molybdenum in Charpy Impact Tests. <i>Jom</i> , 2016 , 68, 2854-2863	2.1	13
317	Impact of the B2 ordering behavior on the mechanical properties of a FeCoMo alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 662, 511-518	5.3	14
316	Correlative microscopy of a carbide-free bainitic steel. <i>Micron</i> , 2016 , 81, 1-7	2.3	7

315	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	5.3	41
314	Modeling concepts for intermetallic titanium aluminides. <i>Progress in Materials Science</i> , 2016 , 81, 55-124	42.2	208
313	Silicon distribution and silicide precipitation during annealing in an advanced multi-phase β TiAl based alloy. <i>Acta Materialia</i> , 2016 , 110, 236-245	8.4	60
312	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	5.7	15
311	Preparation Methods for Examining the β -Phase Formation in a β Solidifying TiAl Alloy via Atom Probe Tomography. <i>Praktische Metallographie/Practical Metallography</i> , 2016 , 53, 73-85	0.3	4
310	Advancement of Compositional and Microstructural Design of Intermetallic β TiAl Based Alloys Determined by Atom Probe Tomography. <i>Materials</i> , 2016 , 9,	3.5	38
309	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	2.3	23
308	Forged Intermetallic β TiAl Based Alloy Low Pressure Turbine Blade in the Geared Turbofan 2016 , 1223-1227		7
307	Evolution of strain-induced hafnium carbides in a molybdenum base MoHfTi alloy studied by small-angle neutron scattering and complementary methods. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 619-631	5.7	9
306	Preferential site occupancy of alloying elements in TiAl-based phases. <i>Journal of Applied Physics</i> , 2016 , 119, 205104	2.5	39
305	Intermetallic titanium aluminides in aerospace applications β processing, microstructure and properties. <i>Materials at High Temperatures</i> , 2016 , 33, 560-570	1.1	128
304	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	2.3	21
303	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	3.9	19
302	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	8.4	678
301	Enhancement of creep properties and microstructural stability of intermetallic β Solidifying β TiAl based alloys. <i>Intermetallics</i> , 2015 , 63, 19-26	3.5	57
300	Interplay between effect of Mo and chemical disorder on the stability of β TiAl phase. <i>Intermetallics</i> , 2015 , 61, 85-90	3.5	31
299	Structural characterization of β carbide-free β bainite in a Fe0.2C0.5Si0.5Mn steel. <i>Materials Characterization</i> , 2015 , 102, 85-91	3.9	35
298	Texture Evolution during Deformation of a Mo-Hf-C Alloy Studied with Electron Backscatter Diffraction. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2015 , 160, 226-230	0.6	3

297	In-situ High-energy X-ray Diffraction on an Intermetallic β -TiAl Based Alloy. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2015 , 160, 221-225	0.6	2
296	Boron Grain Boundary Segregation in a Heat Treatable Steel. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2015 , 160, 204-208	0.6	2
295	Oxidation Protection of Multiphase Mo-Containing β -TiAl-Based Alloys under Cyclic Test Conditions. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1760, 205		1
294	Influence of process parameter variation during thermo-mechanical processing of an intermetallic β -TiAl based alloy. <i>Materials Characterization</i> , 2015 , 109, 116-121	3.9	22
293	Characterization of the high temperature deformation behavior of two intermetallic TiAlMo alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 648, 208-216	5.3	33
292	Enhancement of the Application Temperature of Titanium Aluminides. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2015 , 160, 342-345	0.6	2
291	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	0.5	16
290	Grain boundary study of technically pure molybdenum by combining APT and TKD. <i>Ultramicroscopy</i> , 2015 , 159 Pt 2, 445-51	3.1	32
289	Grain Growth and β to α Transformation Behavior of a Solidifying TiAl Alloy. <i>Advanced Engineering Materials</i> , 2015 , 17, 786-790	3.5	13
288	Orientation dependent recovery and recrystallization behavior of hot-rolled molybdenum. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015 , 48, 179-186	4.1	21
287	In-situ study of the time-temperature-transformation behaviour of a multi-phase intermetallic β -TiAl alloy. <i>Intermetallics</i> , 2015 , 57, 17-24	3.5	43
286	Atom Probe Tomography of Carbides Occurring in Carbide-free Bainitic Steels. <i>Materials Today: Proceedings</i> , 2015 , 2, S925-S928	1.4	4
285	Pulvermetallurgie von intermetallischen Titanaluminiden. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2015 , 160, 513-516	0.6	1
284	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	8.4	86
283	B2 order transformation in a Fe - 25 at% Co - 9 at% Mo alloy. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1760, 175		1
282	Martensitic Transformation of a High-speed Tool Steel During Continuous Heat Treatment. <i>Materials Today: Proceedings</i> , 2015 , 2, S635-S638	1.4	6
281	Microstructure Characterization of Intermetallic β -TiAl Based Alloys after High-Temperature Deformation. <i>Praktische Metallographie/Practical Metallography</i> , 2015 , 52, 239-248	0.3	2
280	High Temperature Laser-Scanning Confocal Microscopy for the in-situ Investigation of Grain Growth and Phase Transformations in Intermetallic β -TiAl based Alloys. <i>Praktische Metallographie/Practical Metallography</i> , 2015 , 52, 259-269	0.3	3

279	Influence of the Sample Preparation Technique on the β Phase Fraction Analysis in a Fe-25Co-15Mo Alloy by Means of XRD. <i>Praktische Metallographie/Practical Metallography</i> , 2015 , 52, 323-333	0.3	2
278	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	0.3	15
277	The Role of Metallography in the Development and Characterization of High-Performance Materials. <i>Praktische Metallographie/Practical Metallography</i> , 2015 , 52, 59-74	0.3	1
276	Influence of Discontinuous Precipitation on the Creep Behavior of a β Solidified β -TiAl Based Alloy. <i>Praktische Metallographie/Practical Metallography</i> , 2015 , 52, 249-258	0.3	
275	Atomic relaxation processes in an intermetallic Ti ₃ Al ₂ Nb _{0.1} Mo _{0.1} B alloy studied by mechanical spectroscopy. <i>Acta Materialia</i> , 2014 , 65, 338-350	8.4	22
274	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	3.5	240
273	Evolution of the β phase in a β -stabilized multi-phase TiAl alloy and its effect on hardness. <i>Acta Materialia</i> , 2014 , 64, 241-252	8.4	120
272	On the Behavior of Yttria/Yttrium during Mechanical Alloying of a Fe - Y ₂ O ₃ Model Alloy System. <i>Advanced Materials Research</i> , 2014 , 922, 598-603	0.5	
271	Constitutive Analysis and Microstructure Evolution of the High-Temperature Deformation Behavior of an Advanced Intermetallic Multi-Phase β -TiAl-Based Alloy. <i>Advanced Materials Research</i> , 2014 , 922, 807-812	0.5	7
270	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	5.3	90
269	Constitutive Analysis of the Flow Curve Behavior of an Intermetallic β -solidifying β -TiAl-based Alloy and Microstructural Characterization of the Deformed State. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2014 , 159, 286-288	0.6	1
268	Microstructure and Texture Evolution in an Intermetallic β -stabilized TiAl Alloy During Forging and Subsequent Isothermal Annealing. <i>Advanced Engineering Materials</i> , 2014 , 16, 445-451	3.5	5
267	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	3.5	111
266	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	3.1	92
265	Fracture and R-curve behavior of an intermetallic β -stabilized TiAl alloy with different nearly lamellar microstructures. <i>Intermetallics</i> , 2014 , 53, 1-9	3.5	36
264	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	2.3	13
263	Distribution of Alloying Elements within the Constituent Phases of a C-containing β -TiAl Based Alloy studied by Atom Probe Tomography. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1760, 7		2
262	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. <i>Acta Materialia</i> , 2014 , 77, 360-369	8.4	20

261	New findings on the atomistic mechanisms active during mechanical milling of a Fe-Y2O3 model alloy. <i>Journal of Applied Physics</i> , 2014 , 115, 124313	2.5	6
260	Development Status, Applications and Perspectives of Advanced Intermetallic Titanium Aluminides. <i>Materials Science Forum</i> , 2014 , 783-786, 15-20	0.4	7
259	Advanced intermetallic TiAl based alloys with improved microstructural stability during creep. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1760, 67		1
258	The Use of In Situ Characterization Techniques for the Development of Intermetallic Titanium Aluminides. <i>Materials Science Forum</i> , 2014 , 783-786, 2097-2102	0.4	4
257	High-temperature oxidation behavior of multi-phase Mo-containing TiAl-based alloys. <i>Intermetallics</i> , 2014 , 53, 45-55	3.5	61
256	Microstructures and mechanical properties of a multi-phase solidifying TiAl alloy densified by spark plasma sintering. <i>Acta Materialia</i> , 2014 , 73, 107-115	8.4	80
255	Characterization of the Crack Initiation and Crack Propagation Behavior of Welded Steels by Means of the Replica Technique. <i>Praktische Metallographie/Practical Metallography</i> , 2014 , 51, 557-567	0.3	
254	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	3.5	36
253	Geße und Eigenschaften einer mehrphasigen intermetallischen Titanaluminidlegierung für innovative Leichtbauanwendungen. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2013 , 158, 113-117	0.6	1
252	Elastoplastic buckling as source of misinterpretation of micropillar tests. <i>Acta Materialia</i> , 2013 , 61, 4996-5007	8.4	14
251	Design, Processing, Microstructure, Properties, and Applications of Advanced Intermetallic TiAl Alloys. <i>Advanced Engineering Materials</i> , 2013 , 15, 191-215	3.5	610
250	Diffusive and massive phase transformations in TiAlNb alloys [Modelling and experiments]. <i>Intermetallics</i> , 2013 , 38, 126-138	3.5	12
249	Advanced Solidifying Titanium Aluminides [Development Status and Perspectives. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1516, 3-16		7
248	Einfluss der Schweißparameter auf das Ermüdungsverhalten hochfester Baustähle. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 889-896	0.9	1
247	3D Characterization of an Intermetallic Titanium Aluminide Alloy. <i>Advanced Engineering Materials</i> , 2013 , 15, 1125-1128	3.5	12
246	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	5.3	26
245	Eigenschaftsoptimiertes Warmumformen einer intermetallischen Titanaluminid-Legierung. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2012 , 157, 319-322	0.6	6
244	Microstructure development and hardness of a powder metallurgical multi phase TiAl based alloy. <i>Intermetallics</i> , 2012 , 22, 231-240	3.5	115

243	In Situ High-Energy XRD Study of the Hot-Deformation Behavior of a Novel TiAl Alloy. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1516, 71-76		6
242	Thermodynamic Calculations of Phase Equilibria and Phase Fractions of a Solidifying TiAl Alloy using the CALPHAD Approach. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1516, 59-64		8
241	Textural Evolution During Dynamic Recovery and Static Recrystallization of Molybdenum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 4794-4805	2.3	30
240	In Situ Study of TiAl Lamellae Formation in Supersaturated β -Ti3Al Grains. <i>Advanced Engineering Materials</i> , 2012 , 14, 299-303	3.5	11
239	In Situ Synchrotron Study of B19 Phase Formation in an Intermetallic TiAl Alloy. <i>Advanced Engineering Materials</i> , 2012 , 14, 445-448	3.5	14
238	Hot Deformation of Cast and Extruded TiAl: An In Situ Diffraction Study. <i>Materials Science Forum</i> , 2012 , 706-709, 1725-1730	0.4	1
237	Optimized Hot-forming of an Intermetallic Multi-phase TiAl Based Alloy. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1516, 29-34		7
236	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		2
235	Relaxation Processes at High Temperature in TiAl-Nb-Mo Intermetallics. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1516, 41-46		1
234	First Investigations on a TNM TiAl Alloy Processed by Spark Plasma Sintering. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1516, 17-22		3
233	Near Conventional Forging of an Advanced TiAl Alloy. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1516, 23-28		11
232	Influence of Heat Treatments on the Microstructure of a Multi-Phase Titanium Aluminide Alloy. <i>Praktische Metallographie/Practical Metallography</i> , 2012 , 49, 124-137	0.3	21
231	SANS Study of Carbon Addition in Ti45Al18Nb. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 195		3
230	Light-Weight Intermetallic Titanium Aluminides [Status of Research and Development. <i>Advanced Materials Research</i> , 2011 , 278, 551-556	0.5	105
229	Characterization of Residual Stresses in 718 Turbine Discs by Neutron Diffraction and Finite Element Modelling. <i>Advanced Materials Research</i> , 2011 , 278, 102-107	0.5	2
228	Intermetallisches Titanaluminid [Ein innovativer Leichtbauwerkstoff für Hochtemperaturanwendungen. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2011 , 156, 255-260	0.6	2
227	On Phase Equilibria and Phase Transformations in TiAl Alloys [A Short Review. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2011 , 156, 438-442	0.6	7
226	In Situ Diffraction Experiments for the Investigation of Phase Fractions and Ordering Temperatures in Ti-44 at% Al-(3-7) at% Mo Alloys. <i>Advanced Engineering Materials</i> , 2011 , 13, 306-311	3.5	29

225	Application of Photons and Neutrons for the Characterization and Development of Advanced Steels. <i>Advanced Engineering Materials</i> , 2011 , 13, 664-673	3.5	4
224	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	3.5	31
223	In Situ Experiments with Synchrotron High-Energy X-Rays and Neutrons. <i>Advanced Engineering Materials</i> , 2011 , 13, 658-663	3.5	70
222	Thermodynamic description of niobium-rich TiAl alloys. <i>International Journal of Materials Research</i> , 2011 , 102, 692-696	0.5	7
221	Microstructure evolution and mechanical properties of an intermetallic Ti-43.5Al-4Nb-1Mo-0.1B alloy after ageing below the eutectoid temperature. <i>International Journal of Materials Research</i> , 2011 , 102, 703-708	0.5	41
220	Deformation mechanisms in micron-sized PST TiAl compression samples: Experiment and model. <i>Acta Materialia</i> , 2011 , 59, 3410-3421	8.4	30
219	Phase transition and ordering behavior of ternary TiAlMo alloys using in-situ neutron diffraction. <i>International Journal of Materials Research</i> , 2011 , 102, 697-702	0.5	33
218	Phase Equilibria and Phase Transformations in Molybdenum-Containing TiAl Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 113		14
217	Physical Metallurgy and Properties of Solidifying TiAl Based Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 95		1
216	Mechanical Spectroscopy in Advanced TiAl-Nb-Mo Alloys at High Temperature. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 139		9
215	Intermetallische Titanaluminid-Basislegierungen aus metallographischer Sicht – eine Fortsetzung. <i>Praktische Metallographie/Practical Metallography</i> , 2011 , 48, 64-100	0.3	11
214	Friction Welding of Intermetallic Titanium Aluminides: Microstructural Evolution and Mechanical Properties. <i>Praktische Metallographie/Practical Metallography</i> , 2011 , 48, 572-581	0.3	1
213	SEM and TEM Investigations of Recovery and Recrystallization in Technically Pure Molybdenum. <i>Praktische Metallographie/Practical Metallography</i> , 2011 , 48, 344-355	0.3	9
212	The Characterisation of a Powder Metallurgically Manufactured TiAl-Titanium Aluminide Alloy Using Complimentary Quantitative Methods. <i>Praktische Metallographie/Practical Metallography</i> , 2011 , 48, 594-604	0.3	37
211	Dynamic Recovery and Recrystallization during Hot-Working in an Advanced TiAl Alloy. <i>Praktische Metallographie/Practical Metallography</i> , 2011 , 48, 632-642	0.3	5
210	In Situ TEM Heating Study of the β Lamellae Formation inside the α Matrix of a Ti-45Al-7.5Nb Alloy. <i>Advanced Materials Research</i> , 2010 , 146-147, 1365-1368	0.5	1
209	Texture Formation during Hot-Deformation of High-Nb Containing TiAl Based Alloys. <i>Solid State Phenomena</i> , 2010 , 160, 301-306	0.4	6
208	Phase Transition and Ordering Temperatures of TiAl-Mo Alloys Investigated by In Situ Diffraction Experiments. <i>Materials Science Forum</i> , 2010 , 654-656, 456-459	0.4	7

207	Study of nanometer-scaled lamellar microstructure in a Ti ₅₀ Al ₄₅ Nb alloy [Experiments and modeling. <i>Intermetallics</i> , 2010 , 18, 509-517	3.5	21
206	Can local hot spots induce α / β lamellae during incomplete massive transformation of β TiAl alloys?. <i>Intermetallics</i> , 2010 , 18, 972-976	3.5	6
205	Evolution of microstructure and texture in Ti ₆₀ Al ₄₀ Nb sheet material during tensile flow at elevated temperatures. <i>Intermetallics</i> , 2010 , 18, 1046-1055	3.5	36
204	Precipitation behavior of intermetallic NiAl particles in Fe-6 at.%Al-4 at.%Ni analyzed by SANS and 3DAP. <i>Intermetallics</i> , 2010 , 18, 1553-1559	3.5	21
203	Phase fractions, transition and ordering temperatures in TiAl _{0.8} Nb _{0.2} Mo alloys: An in- and ex-situ study. <i>Intermetallics</i> , 2010 , 18, 1544-1552	3.5	84
202	Spinodal decomposition in Fe-25 at%Co-9 at%Mo. <i>Intermetallics</i> , 2010 , 18, 2128-2135	3.5	16
201	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. <i>Journal of Physics: Conference Series</i> , 2010 , 247, 012038	0.3	5
200	Behaviour of a maraging steel under quasi-static and dynamic compressive loading. <i>International Journal of Microstructure and Materials Properties</i> , 2010 , 5, 65	0.4	2
199	Metallurgy, Microstructure and Properties of Intermetallic TiAl Ingots. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2010 , 155, 325-329	0.6	12
198	Precipitation Behavior of Fe-25 At. Pct Co-9 At. Pct 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	2.3	14
197	On the recrystallization behavior of technically pure molybdenum. <i>International Journal of Refractory Metals and Hard Materials</i> , 2010 , 28, 703-708	4.1	54
196	Short-term creep behavior of chromium rich hot-work tool steels. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2010 , 41, 18-28	0.9	3
195	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	5.3	43
194	Analysis of the multistage phase separation reaction in Fe ₇₅ at%Co ₁₅ at%Mo. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 2238-2246	1.6	10
193	Kinetics of Precipitation in a Complex Hot-work Tool Steel. <i>Steel Research International</i> , 2010 , 81, 64-73	1.6	14
192	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	1.6	6
191	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	0.5	10
190	In Situ Characterization of a Nb and Mo Containing β TiAl Based Alloy Using Neutron Diffraction and High-Temperature Microscopy. <i>Advanced Engineering Materials</i> , 2009 , 11, 932-937	3.5	47

189	Combined use of small-angle neutron scattering and atom probe tomography for the analysis of precipitates in a Fe-15 m% Co-25 m% Mo alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 97, 331-340	2.6	13
188	High carbon solubility in a TiAl-based Ti ₄₅ Al ₅ Nb _{0.5} C alloy and its effect on hardening. <i>Acta Materialia</i> , 2009 , 57, 1504-1511	8.4	66
187	In situ study of dynamic recrystallization and hot deformation behavior of a multiphase titanium aluminide alloy. <i>Journal of Applied Physics</i> , 2009 , 106, 113526	2.5	50
186	Technology and mechanical properties of advanced TiAl based alloys. <i>International Journal of Materials Research</i> , 2009 , 100, 1021-1030	0.5	114
185	Short-term creep behavior of a Cr Mo V hot-work tool steel. <i>International Journal of Materials Research</i> , 2009 , 100, 1066-1073	0.5	4
184	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	0.5	2
183	In-situ small-angle X-ray scattering study of the precipitation behavior in a Fe-25[at.%]Co-9[at.%]Mo alloy. <i>Materials Characterization</i> , 2008 , 59, 1809-1813	3.9	8
182	Microstructure and mechanical properties of Ti ₄₅ Al ₅ Nb + (0-0.5C) sheets. <i>Intermetallics</i> , 2008 , 16, 689-697	3.7	47
181	Characteristics of the tensile flow behavior of Ti ₄₆ Al ₅ Nb sheet material [Analysis of thermally activated processes of plastic deformation. <i>Intermetallics</i> , 2008 , 16, 717-726	3.5	47
180	In and ex situ investigations of the β phase in a Nb and Mo containing TiAl based alloy. <i>Intermetallics</i> , 2008 , 16, 827-833	3.5	141
179	Nanometer-scaled lamellar microstructures in Ti ₄₅ Al _{7.5} Nb _(0; 0.5) C alloys and their influence on hardness. <i>Intermetallics</i> , 2008 , 16, 868-875	3.5	58
178	On the influence of coating and oxidation on the mechanical properties of a TiAl based alloy. <i>Intermetallics</i> , 2008 , 16, 1206-1211	3.5	25
177	Precipitation behaviour of an FeCoMo-alloy during non-isothermal ageing. <i>International Journal of Materials Research</i> , 2008 , 99, 367-374	0.5	20
176	Computational analysis of the precipitation kinetics in a complex tool steel. <i>International Journal of Materials Research</i> , 2008 , 99, 410-415	0.5	9
175	Isothermal aging kinetics of NiAl precipitates in a secondary hardening steel. <i>International Journal of Microstructure and Materials Properties</i> , 2008 , 3, 373	0.4	2
174	Initial Stages of Lamellae Formation in High Nb Containing TiAl Based Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 40701		
173	Microstructure and Tensile Ductility of a Ti-43Al-4Nb-1Mo-0.1B Alloy. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 30801		1
172	Experimental Studies and Thermodynamic Simulations of Phase Transformations in Ti-(41-5)Al-4Nb-1Mo-0.1B Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 30601		9

171	Hot-die Forging of a Stabilized TiAl Based Alloy. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 30501		2
170	Precipitates in a Fe-Co-Mo Alloy Characterized by Complementary Methods. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2008 , 153, 247-252	0.6	4
169	Oxidation Resistance and Ductility of a Coated TiAl Based Alloy. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2008 , 153, 268-272	0.6	3
168	Intermetallische Werkstoffe fñ Anwendungen in Automobil- und Flugzeugtriebwerken. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2008 , 153, 337-341	0.6	9
167	Zum Kurzzeitkriechverhalten von Warmarbeitsstñlen. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2008 , 153, 342-346	0.6	2
166	Directional Atomic Rearrangements During Transformations Between the ð and ð Phases in Titanium Aluminides. <i>Advanced Engineering Materials</i> , 2008 , 10, 389-392	3.5	22
165	Characterization of Phospholipid Bilayers on Ti-6Al-4V and Ti-6Al-7Nb. <i>Advanced Engineering Materials</i> , 2008 , 10, B47-B52	3.5	5
164	Design of Novel Solidifying TiAl Alloys with Adjustable ð ₂ -Phase Fraction and Excellent Hot-Workability. <i>Advanced Engineering Materials</i> , 2008 , 10, 707-713	3.5	304
163	On the Formation of Ordered ð phase in High Nb Containing TiAl Based Alloys. <i>Advanced Engineering Materials</i> , 2008 , 10, 929-934	3.5	45
162	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	5.3	17
161	Diffraction-Based Residual Stress Analysis Applied to Problems in the Aircraft Industry. <i>Advanced Engineering Materials</i> , 2007 , 9, 627-638	3.5	3
160	The influence of spin-misalignment scattering on the SANS data evaluation of martensitic age-hardening steels. <i>Acta Materialia</i> , 2007 , 55, 2637-2646	8.4	26
159	Precipitation twinning. <i>Acta Materialia</i> , 2007 , 55, 4915-4923	8.4	29
158	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	1.7	2
157	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	1.5	10
156	In situ high-energy X-ray diffraction study and quantitative phase analysis in the ð phase field of titanium aluminides. <i>Scripta Materialia</i> , 2007 , 57, 1145-1148	5.6	36
155	Werkstoffforschung mit Synchrotronstrahlung. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2007 , 152, 282-286	0.6	1
154	Methods to determine the joint strength of C/C to copper joints. <i>Fusion Engineering and Design</i> , 2007 , 82, 1786-1792	1.7	10

153	Compressive deformation of lamellar microstructures – a short review. <i>International Journal of Materials Research</i> , 2007 , 98, 1041-1046	0.5	9
152	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	0.5	9
151	Spinodal decomposition of cubic Ti _{1-x} Al _x N: Comparison between experiments and modeling. <i>International Journal of Materials Research</i> , 2007 , 98, 1054-1059	0.5	41
150	Experimental studies and thermodynamic simulation of phase transformations in high Nb containing TiAl based alloys. <i>International Journal of Materials Research</i> , 2007 , 98, 1131-1137	0.5	56
149	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	0.4	4
148	Characteristics of an optimized active metal cast joint between copper and C/C. <i>Physica Scripta</i> , 2007 , T128, 200-203	2.6	22
147	In-vitro interactions of human chondrocytes and mesenchymal stem cells, and of mouse macrophages with phospholipid-covered metallic implant materials. <i>European Cells and Materials</i> , 2007 , 13, 11-25	4.3	11
146	Herstellung lamellarer Gefügetypen in intermetallischen TiAl-Legierungen und deren Charakterisierung. <i>Praktische Metallographie/Practical Metallography</i> , 2007 , 44, 430-442	0.3	10
145	Gefügecharakterisierung eines Warmarbeitsstahls mit martensitisch-bainitischem Mischgefüge. <i>Praktische Metallographie/Practical Metallography</i> , 2007 , 44, 182-192	0.3	2
144	Charakterisierung einer erstarrten TiAl-Basislegierung. <i>BHM-Zeitschrift Für Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2006 , 151, 356-361	0.6	12
143	Intermetallische Titanaluminide: Werkstoffe für hohe Temperaturen. <i>BHM-Zeitschrift Für Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2006 , 151, 195-199	0.6	
142	On the development of grain growth resistant tantalum alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2006 , 24, 437-444	4.1	18
141	Microstructure and Texture Formation during Hot Rolling of Niobium-Rich TiAl Alloys with Different Carbon Contents. <i>Advanced Engineering Materials</i> , 2006 , 8, 1101-1108	3.5	23
140	Characterization of Residual Stresses in Compressor Discs for Aeroengines. <i>Advanced Engineering Materials</i> , 2006 , 8, 1088-1092	3.5	9
139	Mechanical Size-Effects in Miniaturized and Bulk Materials. <i>Advanced Engineering Materials</i> , 2006 , 8, 1033-1045	3.5	64
138	Microstructure and Mechanical Properties of a C/C-Cu Joint Developed for Plasma Facing Components. <i>Advanced Engineering Materials</i> , 2006 , 8, 1092-1096	3.5	3
137	Precipitation Behaviour of a Complex Steel. <i>Advanced Engineering Materials</i> , 2006 , 8, 1066-1077	3.5	30
136	Numerical Modelling of Kinking in Lamellar TiAl Based Alloys. <i>Advanced Engineering Materials</i> , 2006 , 8, 1109-1113	3.5	11

135	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, 2006, 980, 7</i>		2
134	Structure Models of Massively Transformed High Niobium Containing TiAl Alloys. <i>Materials Research Society Symposia Proceedings, 2006, 980, 1</i>		4
133	Texture Formation in High Niobium Containing TiAl Alloys. <i>Materials Research Society Symposia Proceedings, 2006, 980, 1</i>		2
132	Precipitation-Induced Nano-Twinning. <i>Materials Research Society Symposia Proceedings, 2006, 980, 6</i>		
131	Continuum Mechanics of Deformation Twinning [A Review]. <i>Multidiscipline Modeling in Materials and Structures, 2006, 2, 167-187</i>	2.2	6
130	On The Influence of Nb on the Transition Temperatures of Titanium Aluminides. <i>Materials Research Society Symposia Proceedings, 2006, 980, 3</i>		
129	Texture evolution of the β and the γ_2 -phase during hot rolling of β -TiAl based alloys. <i>Intermetallics, 2006, 14, 336-347</i>	3.5	36
128	Grain refinement in β -TiAl-based alloys by solid state phase transformations. <i>Intermetallics, 2006, 14, 1380-1385</i>	3.5	104
127	Phase transformations in high niobium and carbon containing β -TiAl based alloys. <i>Intermetallics, 2006, 14, 1194-1198</i>	3.5	56
126	Adjustment of Differently Spaced Fully Lamellar Microstructures in a β -TiAl Based Alloy and their Creep Behaviour 2006, 233-239		3
125	Control of Fully Lamellar Microstructures in a β -TiAl Based Alloy 2006, 134-139		
124	Characterization of the behavior under impact loading of a maraging steel strengthened by nano-precipitates. <i>European Physical Journal Special Topics, 2006, 134, 839-844</i>		
123	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, 2006, 54, 3721-3735</i>	8.4	71
122	On the texture of spray formed gamma titanium aluminide. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 416, 11-17</i>	5.3	4
121	The high-temperature damping background in intermetallic alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 138-141</i>	5.3	21
120	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, 2006, 429, 96-106</i>	5.3	41
119	Spin configurations in strained magnetic superlattices grown by molecular beam epitaxy. <i>Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 379-382</i>	3	3
118	Microstructural design of hard coatings. <i>Progress in Materials Science, 2006, 51, 1032-1114</i>	42.2	682

117	Microstructural evolution of CrMnNi austenitic steels during cold work hardening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 427, 246-254	5.3	66
116	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	5.3	25
115	Creep behaviour and related high temperature microstructural stability of Ti46Al9Nb sheet material. <i>Intermetallics</i> , 2005 , 13, 515-524	3.5	75
114	Production, Processing and Application of (TiAl)-Based Alloys 2005 , 351-392		9
113	Interfaces in nanostructured thin films and their influence on hardness. <i>International Journal of Materials Research</i> , 2005 , 96, 468-480		24
112	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	5.3	26
111	Experimental Studies of Phase Transformations in a Carbon Containing Ti-45Al-7.5Nb Alloy and Related Thermodynamic Simulations. <i>Advanced Engineering Materials</i> , 2005 , 7, 1131-1134	3.5	11
110	Self-Organized Nanostructures in Hard Ceramic Coatings. <i>Advanced Engineering Materials</i> , 2005 , 7, 1071-1082	3.5	52
109	Combining complementary techniques to study precipitates in steels. <i>International Journal of Materials Research</i> , 2005 , 96, 1074-1080		18
108	Microstructure and mechanical properties of Si and YN doped powder metallurgical tantalum. <i>International Journal of Materials Research</i> , 2004 , 95, 573-578		4
107	Massive Transformation in High Niobium Containing TiAl-Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 842, 31		3
106	Internal Friction of a High-Nb Gamma-TiAl-Based Alloy with Different Microstructures. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 842, 483		
105	Creep Behavior and Microstructural Stability of Ti-46Al-9Nb with Different Microstructures. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 842, 477		1
104	Residual stresses in forged IN718 turbine discs. <i>International Journal of Materials Research</i> , 2004 , 95, 663-667		9
103	Experimental Studies and Thermodynamic Simulation of Phase Transformations in β TiAl Based Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 842, 363		2
102	A Study of the Deformation Behavior of Lamellar β TiAl by Numeric Modeling. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 842, 447		2
101	Mechanical spectroscopy of a high-Nb-bearing β TiAl-based alloy with near-gamma and fully lamellar microstructure. <i>Philosophical Magazine Letters</i> , 2004 , 84, 383-393	1	9
100	Sheet gamma TiAl: Status and opportunities. <i>Jom</i> , 2004 , 56, 42-45	2.1	129

99	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	2.3	14
98	Powder Metallurgical Processing of Intermetallic Gamma Titanium Aluminides. <i>Advanced Engineering Materials</i> , 2004 , 6, 23-38	3.5	157
97	Internal friction of β TiAl-based alloys with different microstructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 370, 234-239	5.3	19
96	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	3.5	75
95	Physical metallurgy of high Nb-containing TiAl alloys. <i>International Journal of Materials Research</i> , 2004 , 95, 585-591		17
94	Characterisation of precipitates in a stainless maraging steel by three-dimensional atom probe and small-angle neutron scattering. <i>International Journal of Materials Research</i> , 2004 , 95, 644-649		5
93	High-Energy X-Rays: A tool for Advanced Bulk Investigations in Materials Science and Physics. <i>Textures and Microstructures</i> , 2003 , 35, 219-252		160
92	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	2.3	28
91	Phase stability of a β TiAl based alloy upon annealing: comparison between experiment and thermodynamic calculations. <i>Scripta Materialia</i> , 2003 , 49, 279-284	5.6	18
90	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	1.2	14
89	Biological Multi-layer Systems as Implant Surface Modification. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2003 , 34, 1084-1093	0.9	13
88	Auswirkungen von statischen Langzeitglühungen auf Gefüge und mechanische Eigenschaften einer β TiAl Basislegierung. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2003 , 34, 499-504	0.9	
87	Deformation mechanisms in TiAl intermetallics Experiments and modeling. <i>International Journal of Plasticity</i> , 2003 , 19, 281-321	7.6	99
86	Characterization of biocompatible Ti(CNO) layers on polymeric substrates. <i>Applied Surface Science</i> , 2003 , 219, 329-337	6.7	1
85	Mechanical twins, their development and growth. <i>European Journal of Mechanics, A/Solids</i> , 2003 , 22, 709-726	3.7	41
84	A thermodynamical model for the nucleation of mechanical twins in TiAl. <i>Acta Materialia</i> , 2003 , 51, 1249-1260	1.2	37
83	Small-angle neutron scattering analysis of the precipitation behaviour in a maraging steel. <i>Journal of Applied Crystallography</i> , 2003 , 36, 415-419	3.8	34
82	Forming 2002 , 617-642		17

81	USANS investigation of early stages of metal foam formation. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s1136-s1138	2.6	2
80	Texture analyses in titanium aluminide alloys by neutron diffraction. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s1222-s1223	2.6	2
79	SANS investigation of precipitation hardening of two-phase TiAl alloys. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s1163-s1165	2.6	16
78	Designed fully lamellar microstructures in a TiAl based alloy: adjustment and microstructural changes upon long-term isothermal exposure at 700 and 800°C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 124-129	5.3	48
77	Deformation behavior of differently processed Titanium aluminides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 153-162	5.3	75
76	Creep behavior of 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	5.3	28
75	On the role of twinning during room temperature deformation of TiAl based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 177-183	5.3	18
74	Effects of Thermomechanical Processing on Texture Formation in Titanium Aluminides. <i>Materials Science Forum</i> , 2002 , 408-412, 1777-1782	0.4	3
73	Strain Rate Dependence of the Deformation Mechanisms in a Fully Lamellar TiAl-Based Alloy. <i>International Journal of Materials Research</i> , 2002 , 93, 180-185		7
72	Creep Properties of a High Niobium Containing TiAl Alloy Sheet Material. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 753, 1		3
71	The high temperature oxidation behaviour of high and low alloyed TiAl-based intermetallics. <i>Intermetallics</i> , 2002 , 10, 293-305	3.5	72
70	Microstructural stability and creep behavior of a lamellar TiAl based alloy with extremely fine lamellar spacing. <i>Intermetallics</i> , 2002 , 10, 459-466	3.5	40
69	High-temperature mechanical properties of hot isostatically pressed and forged gamma titanium aluminide alloy powder. <i>Intermetallics</i> , 2002 , 10, 511-517	3.5	35
68	Investigation of metal foam formation by microscopy and ultra small-angle neutron scattering. <i>Acta Materialia</i> , 2001 , 49, 3409-3420	8.4	52
67	Fatigue threshold and crack propagation in TiAl sheets. <i>Intermetallics</i> , 2001 , 9, 89-96	3.5	30
66	Creep of TiAl Based Alloys [Experiments and Computational Modeling]. <i>Solid Mechanics and Its Applications</i> , 2001 , 17-30	0.4	1
65	Creep Behavior and Microstructural Stability of Lamellar TiAl (Cr, Mo, Si, B) with Extremely Fine Lamellar Spacing. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 646, 125		1
64	Mechanical Properties of TiAl Based Alloys at Elevated Temperatures. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 646, 92		1

63	Processing and Applications of Intermetallic TiAl-Based Alloys. <i>Advanced Engineering Materials</i> , 2000 , 2, 551-570	3.5	478
62	Computational Modeling and Experimental Study of the Deformation Behavior of TiAl-Based Alloys. <i>Advanced Engineering Materials</i> , 2000 , 2, 662-666	3.5	9
61	Determination of the diffusion coefficient of hydrogen in gamma titanium aluminides during electrolytic charging. <i>Acta Materialia</i> , 2000 , 48, 1005-1019	8.4	20
60	Effect of heat-treatments and hot-isostatic pressing on phase transformation and microstructure in a β 2 containing TiAl based alloy. <i>Scripta Materialia</i> , 2000 , 42, 1065-1070	5.6	38
59	Internal friction of TiAl alloys at high temperature. <i>Journal of Alloys and Compounds</i> , 2000 , 310, 134-138	5.7	25
58	On the origin of acoustic emission during room temperature compressive deformation of a TiAl based alloy. <i>Intermetallics</i> , 2000 , 8, 823-830	3.5	32
57	Thermal-cycling creep of TiAl-based alloys. <i>Intermetallics</i> , 2000 , 8, 339-343	3.5	7
56	Intermetallische Titanaluminid-Basislegierungen aus metallographischer Sicht / Intermetallic Titanium Aluminide Based Alloys from a Metallographic Point of View. <i>Praktische Metallographie/Practical Metallography</i> , 2000 , 37, 194-217	0.3	14
55	Diffusion bonding of TiAl sheets. <i>Intermetallics</i> , 1999 , 7, 1025-1031	3.5	56
54	Characterization of controlled microstructures in a TiAl(Cr, Mo, Si, B) alloy. <i>Intermetallics</i> , 1999 , 7, 1081-1087	3.5	18
53	Crack Initiation and Crack Growth Resistance of Ti-48Al-2Cr Sheet Material. <i>Scripta Materialia</i> , 1998 , 38, 1041-1049	5.6	4
52	β 2 Lamellar Domains in Rolled TiAl. <i>Scripta Materialia</i> , 1998 , 38, 1377-1382	5.6	37
51	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	3.5	51
50	The high-temperature oxidation behaviour of Ti-47Al-2Cr-0.2Si and Ti-48Al-2Cr-2Nb compared with Ti-48Al-2Cr. <i>Intermetallics</i> , 1997 , 5, 525-534	3.5	38
49	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	5.6	16
48	Mechanical Anisotropy in Sheets of TiAl Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 460, 141		7
47	Processing, Properties and Applications of Gamma Titanium Aluminide Sheet and Foil Materials. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 460, 29		24
46	Tensile Properties and Deformation Mechanisms in Two-Phase Titanium Aluminide Sheet Material. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 460, 195		5

45	Optimizing the properties of TiAl sheet material for application in heat protection shields or propulsion systems. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 201, 182-193	5.3	43
44	Characterization of Ti ₂ Al ₃ Cr sheet material. <i>Intermetallics</i> , 1994 , 2, 179-184	3.5	29
43	High vacuum molecular beam epitaxy for the growth of IV-VI compounds. <i>Journal of Crystal Growth</i> , 1993 , 126, 293-304	1.6	13
42	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	4.1	15
41	Interdiffusion in diluted magnetic PbTe/Pb _{1-x} MnxTe quantum well structures. <i>Journal of Applied Physics</i> , 1992 , 72, 97-106	2.5	13
40	Optical investigation of PbTe doping superlattices. <i>Superlattices and Microstructures</i> , 1991 , 9, 427-431	2.8	
39	Interdiffusion in Pb _{1-x} EuxSe/PbSe multi-quantum-well structures. <i>Journal of Crystal Growth</i> , 1991 , 113, 593-598	1.6	15
38	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	1.6	4
37	Physics and applications of IV-VI compound quantum well and superlattice structures. <i>Semiconductor Science and Technology</i> , 1990 , 5, S122-S130	1.8	35
36	Growth and characterization of dilute magnetic PbTe/Pb _{1-x} MnxTe superlattices. <i>Surface Science</i> , 1990 , 228, 236-239	1.8	7
35	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	2.5	7
34	Growth of PbTe/Pb _{1-x} MnxTe quantum well structures by molecular-beam epitaxy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1989 , 7, 3197-3199	2.9	11
33	Interpretation of photoluminescence spectra in partially interdiffused PbTe/Pb _{1-x} SnxTe superlattices. <i>Superlattices and Microstructures</i> , 1989 , 5, 93-98	2.8	7
32	Growth of PbTe doping superlattices by hot wall epitaxy. <i>Journal of Crystal Growth</i> , 1988 , 88, 236-240	1.6	9
31	Epitaxial growth of PbTe on (111)BaF ₂ and (100)GaAs. <i>Superlattices and Microstructures</i> , 1988 , 4, 591-596	2.8	16
30	Epitaxial growth of PbTe on (100) GaAs substrates. <i>Materials Letters</i> , 1988 , 7, 127-130	3.3	11
29	Epitaxial growth of PBTE doping superlattices on (111) BaF ₂ and (100) GaAs 1988 , 281-285		4
28	Photoconductive response of PbTe doping superlattices. <i>Applied Physics Letters</i> , 1987 , 50, 1654-1656	3.4	12

27	Observation of electronic subbands in PbTe nipi structures. <i>Superlattices and Microstructures</i> , 1987 , 3, 225-229	2.8	2
26	Epitaxial growth of Pb _{1-x} GexTe films and of PbTe/Pb _{1-x} GexTe superlattices. <i>Journal of Crystal Growth</i> , 1987 , 84, 571-576	1.6	10
25	PbTe-doping superlattices: A new type of high sensitivity infrared detector. <i>European Physical Journal B</i> , 1987 , 67, 467-473	1.2	7
24	Magneto-optical properties of PbTe doping superlattices. <i>European Physical Journal B</i> , 1987 , 67, 475-481	1.2	8
23	Optical investigations of superlattices. <i>Surface Science</i> , 1986 , 170, 657-664	1.8	12
22	Transport and magneto-optical properties of PbTe doping superlattices. <i>Surface Science</i> , 1986 , 174, 561-566	1.6	2
21	Magneto-optical investigation of PbTe/Pb _{1-x} SnxTe superlattices. <i>Superlattices and Microstructures</i> , 1985 , 1, 1-9	2.8	27
20	Spin resonant optical four wave mixing in Pb _{1-x} SnxTe epitaxial layers and in Pb _{1-x} Snx/PbTe superlattices. <i>Solid State Communications</i> , 1985 , 55, 765-768	1.6	17
19	Anomalous transport in PbTe doping superlattices. <i>Applied Physics Letters</i> , 1985 , 47, 738-740	3.4	21
18	Intra- and Interband Magneto-optical Investigations of PbTe/Pb _{1-x} SnxTe Superlattices 1985 , 543-546		
17	Electronic structure of PbTe/Pb _{1-x} SnxTe superlattices. <i>Physical Review B</i> , 1984 , 30, 3394-3405	3.3	78
16	Growth and characterization of PbTe epitaxial films grown by hot-wall epitaxy. <i>Journal of Crystal Growth</i> , 1984 , 66, 251-256	1.6	22
15	Structural and electronic properties of PbTe/Pb _{1-x} SnxTe superlattices. <i>Surface Science</i> , 1984 , 142, 571-578	1.8	14
14	X-Ray Strain Measurements in IV-VI-Semiconductor Superlattices at Low Temperature 1984 , 171-178		9
13	Hot-wall epitaxy system for the growth of multilayer IV-VI compound heterostructures. <i>Review of Scientific Instruments</i> , 1983 , 54, 685-689	1.7	47
12	X-Ray Strain Measurements in IV-VI Semiconductor Super-Lattices at Low Temperature. <i>Advances in X-ray Analysis</i> , 1983 , 27, 171-178		3
11	Microstructure and Properties of Engineering Materials1-20		1
10	Internal Stresses in Engineering Materials21-56		1

9	Stress Analysis by Angle-Dispersive Neutron Diffraction137-153		2
8	Small-Angle Neutron Scattering239-248		
7	Diffraction-Based Residual Stress Analysis Applied to Problems in the Aircraft Industry387-411		
6	In situ fracture observations of distinct interface types within a fully lamellar intermetallic TiAl alloy. <i>Journal of Materials Research</i> ,1-14	2.5	0
5	On the Formation Mechanism of Banded Microstructures in Electron Beam Melted Ti ₄₈ Al ₅₂ Cr ₂ Nb and the Design of Heat Treatments as Remedial Action. <i>Advanced Engineering Materials</i> ,2101199	3.5	1
4	In Situ Investigation of the Rapid Solidification Behavior of Intermetallic TiAl-Based Alloys Using High-Energy X-Ray Diffraction. <i>Advanced Engineering Materials</i> ,2100557	3.5	2
3	Electrons Meet Alloy Development: A TiAl-Based Alloy Showcase. <i>Advanced Engineering Materials</i> ,2100937	3.7	1
2	Selective Laser Melting of a Near-Ti6242S Alloy for High-Performance Automotive Parts. <i>Advanced Engineering Materials</i> ,2001194	3.5	6
1	Microstructural adjustment of hot-rolled Ti ₅₀ Al ₅₀ V based on a CCT diagram. <i>Materials Science and Technology</i> ,1-8	1.5	