

Uwe Glatzel

List of Publications by Year in descending order

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all docs

144
docs citations

144
times ranked

3580
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Entropy Alloys: Balancing Strength and Ductility at Room Temperature. , 2022, , 441-453.		4
2	Improving the Adhesion of a Hard Oxide Layer on Ti6Al4V by a Three-Step Thermal Oxidation Process. Advanced Engineering Materials, 2022, 24, 2100864.	3.5	3
3	Oxygen diffusion hardened zirconium alloy ZrNb7 “ Tribological properties derived from Calo wear and wheel on flat experiments. Tribology International, 2022, 165, 107304.	5.9	4
4	Anisotropic Growth of the Primary Dendrite Arms in a Single-Crystal Thin-Walled Nickel-Based Superalloy. Advanced Engineering Materials, 2022, 24, .	3.5	7
5	Uniaxial mechanical properties of face-centered cubic single- and multiphase high-entropy alloys. MRS Bulletin, 2022, 47, 168-174.	3.5	15
6	Consistent Quantification of Precipitate Shapes and Sizes in Two and Three Dimensions Using Central Moments. Integrating Materials and Manufacturing Innovation, 2022, 11, 159-171.	2.6	2
7	Zr diffusion in BCC refractory high entropy alloys: A case of “non-sluggish” diffusion behavior. Acta Materialia, 2022, 233, 117970.	7.9	33
8	Control of ultrafast laser ablation efficiency by stress confinement due to strong electron localization in high-entropy alloys. Applied Surface Science, 2022, 594, 153427.	6.1	4
9	Determination of the local oxygen distribution in a commercial titanium alloy by 3-dimensional atom probe. International Journal of Materials Research, 2022, 94, 771-773.	0.3	0
10	Elemental effects on the oxidation of refractory compositionally complex alloys. International Journal of Refractory Metals and Hard Materials, 2022, 108, 105918.	3.8	7
11	Effect of Wall Thickness and Surface Conditions on Creep Behavior of a Single-Crystal Ni-Based Superalloy. Metals, 2022, 12, 1081.	2.3	5
12	Tensile creep behavior of HfNbTaTiZr refractory high entropy alloy at elevated temperatures. Acta Materialia, 2022, 237, 118188.	7.9	27
13	On the Formation of Eutectics in Variations of the Al10Co25Cr8Fe15Ni36Ti6 Compositionally Complex Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 143-150.	2.2	3
14	The influence of Cr, Al, Co, Fe and C on negative creep of Waspaloy. International Journal of Materials Research, 2021, 112, 90-97.	0.3	0
15	Quantitative Shape-Classification of Misfitting Precipitates during Cubic to Tetragonal Transformations: Phase-Field Simulations and Experiments. Materials, 2021, 14, 1373.	2.9	3
16	Simulation of the δ -Phase Precipitation Process with Interfacial Anisotropy Effects in Al-Cu Alloys. Materials, 2021, 14, 1280.	2.9	4
17	Discontinuities in Oxidation Kinetics: A New Model and its Application to Cr-Si-Base Alloys. Oxidation of Metals, 2021, 95, 445-465.	2.1	5
18	Sub-picosecond single-pulse laser ablation of the CrMnFeCoNi high entropy alloy and comparison to stainless steel AISI 304. Applied Surface Science, 2021, 544, 148839.	6.1	20

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19	The Influence of Oxide Color on the Surface Characteristics of Zirconium Alloy ZrNb7 (wt%) After Different Heat Treatments. <i>Oxidation of Metals</i> , 2021, 95, 377-388.	2.1	3
20	High entropy alloy nanocomposites produced by high pressure torsion. <i>Acta Materialia</i> , 2021, 208, 116714.	7.9	21
21	Quantification of Solid Solution Strengthening and Internal Stresses through Creep Testing of Ni-Containing Single Crystals at 980 Å°C. <i>Metals</i> , 2021, 11, 1130.	2.3	7
22	Tensile Creep Properties of Cr-Si Alloys at 980 Å°C in Air – Influence of Ge and Mo Addition. <i>Metals</i> , 2021, 11, 1072.	2.3	2
23	3D printed polymer positive models for the investment casting of extremely thin-walled single crystals. <i>Journal of Materials Processing Technology</i> , 2021, 293, 117095.	6.3	17
24	Development and evaluation of an image processing algorithm for monitoring fiber laser fusion cutting by a high-speed camera. <i>Journal of Laser Applications</i> , 2021, 33, 032004.	1.7	5
25	Towards superior high temperature properties in low density ferritic AlCrFeNiTi compositionally complex alloys. <i>Acta Materialia</i> , 2021, 216, 117113.	7.9	20
26	Influence of high melting elements on microstructure, tensile strength and creep resistance of the compositionally complex alloy Al10Co25Cr8Fe15Ni36Ti6. <i>Materials Chemistry and Physics</i> , 2021, 274, 125163.	4.0	11
27	Creep behavior of polycrystalline and single crystal Ni-based superalloys coated with Ta-containing NiCoCrAlY by high-velocity oxy-fuel spraying. <i>Scripta Materialia</i> , 2020, 178, 522-526.	5.2	15
28	Determination of heat treatment parameters by experiments and CALPHAD for precipitate hardening of Cr-Alloys with Si, Ge and Mo. <i>Intermetallics</i> , 2020, 116, 106636.	3.9	7
29	Improving the oxidation resistance of Cr-Si-based alloys by ternary alloying. <i>Corrosion Science</i> , 2020, 165, 108376.	6.6	19
30	Temperature evolution of lattice misfit in Hf and Mo variations of the Al10Co25Cr8Fe15Ni36Ti6 compositionally complex alloy. <i>Scripta Materialia</i> , 2020, 188, 74-79.	5.2	8
31	Phase-Field Modeling of $\hat{\Gamma}^2$ and $\hat{\Gamma}^3$ Precipitate Size Evolution During Heat Treatment of Ni-Based Superalloys. <i>Minerals, Metals and Materials Series</i> , 2020, , 500-508.	0.4	6
32	Temperature Dependent Solid Solution Strengthening in the High Entropy Alloy CrMnFeCoNi in Single Crystalline State. <i>Metals</i> , 2020, 10, 1412.	2.3	10
33	On the interaction between $\hat{\Gamma}^2$ precipitates and dislocation microstructures in Nb containing single crystal nickel-base alloys. <i>Materials Characterization</i> , 2020, 165, 110389.	4.4	11
34	Stainless steel powder produced by a novel arc spray process. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8314-8322.	5.8	4
35	Phase-field modeling of $\hat{\Gamma}^3$ microstructure formation in Ni-based superalloys with high $\hat{\Gamma}^3$ volume fraction. <i>Intermetallics</i> , 2020, 120, 106745.	3.9	20
36	Thermo-physical properties of Hastelloy X and Haynes 214 close to the melting range. <i>Materials Science and Technology</i> , 2020, 36, 1012-1019.	1.6	5

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37	New multiphase compositionally complex alloys driven by the high entropy alloy approach. <i>Materials Characterization</i> , 2019, 147, 512-532.	4.4	95
38	Phase-field modeling of γ -precipitate shapes in nickel-base superalloys and their classification by moment invariants. <i>European Physical Journal B</i> , 2019, 92, 1.	1.5	12
39	Determination of solubility limits of refractory elements in TCP phases of the Ni-Mo-Cr ternary system using diffusion multiples. <i>Journal of Alloys and Compounds</i> , 2019, 788, 67-74.	5.5	14
40	Evolution of γ/γ' phases, their misfit and volume fractions in Al ₁₀ Co ₂₅ Cr ₈ Fe ₁₅ Ni ₃₆ Ti ₆ compositionally complex alloy. <i>Materials Characterization</i> , 2019, 154, 363-376.	4.4	18
41	Microstructure and Mechanical Properties of Precipitate Strengthened High Entropy Alloy Al ₁₀ Co ₂₅ Cr ₈ Fe ₁₅ Ni ₃₆ Ti ₆ with Additions of Hafnium and Molybdenum. <i>Entropy</i> , 2019, 21, 169.	2.2	33
42	Oxygen diffusion kinetics of an advanced three step heat treatment for zirconium alloy ZrNb7. <i>Surface and Coatings Technology</i> , 2018, 339, 139-146.	4.8	6
43	Quantitative analysis of Mo-Si-B alloy phases with wavelength dispersive spectroscopy (WDS-SEM). <i>X-Ray Spectrometry</i> , 2018, 47, 153-158.	1.4	4
44	Influence of Ingot and Powder Metallurgy Production Route on the Tensile Creep Behavior of Mo ₉ Si ₈ B Alloys with Additions of Al and Ge. <i>Advanced Engineering Materials</i> , 2018, 20, 1700751.	3.5	3
45	Optimisation of a Jewellery Platinum Alloy for Precision Casting: Evaluation of Mechanical, Microstructural and Optical Properties. <i>Johnson Matthey Technology Review</i> , 2018, 62, 364-382.	1.0	3
46	Tensile Behavior and Evolution of the Phases in the Al ₁₀ Co ₂₅ Cr ₈ Fe ₁₅ Ni ₃₆ Ti ₆ Compositionally Complex/High Entropy Alloy. <i>Entropy</i> , 2018, 20, 646.	2.2	23
47	Microstructural analysis of Ta-containing NiCoCrAlY bond coats deposited by HVOF on different Ni-based superalloys. <i>Surface and Coatings Technology</i> , 2018, 354, 214-225.	4.8	26
48	Entropy Determination of Single-Phase High Entropy Alloys with Different Crystal Structures over a Wide Temperature Range. <i>Entropy</i> , 2018, 20, 654.	2.2	49
49	Phase-Field Modeling of Precipitation Growth and Ripening During Industrial Heat Treatments in Ni-Base Superalloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 4146-4157.	2.2	23
50	Strengthened Cr-Si-base alloys for high temperature applications. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 76, 72-81.	3.8	12
51	Laser Cladding of Ultra-Thin Nickel-Based Superalloy Sheets. <i>Materials</i> , 2017, 10, 279.	2.9	19
52	On the Path to Optimizing the Al-Co-Cr-Cu-Fe-Ni-Ti High Entropy Alloy Family for High Temperature Applications. <i>Entropy</i> , 2016, 18, 104.	2.2	68
53	Tailored platinum-nickel nanostructures on zirconia developed by metal casting, internal oxidation and dealloying. <i>Corrosion Science</i> , 2016, 112, 246-254.	6.6	4
54	Internal Oxidation of Ternary Alloys Forming a High Oxygen Conductive Oxide. <i>Oxidation of Metals</i> , 2016, 86, 193-203.	2.1	0

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55	Effect of W on tempering behaviour of a 3%Co modified P92 steel. Journal of Materials Science, 2016, 51, 9424-9439.	3.7	26
56	Microstructure and mechanical properties of selective laser melted Inconel 718 compared to forging and casting. Materials Letters, 2016, 164, 428-431.	2.6	358
57	Creep Resistance and Oxidation Behavior of Novel Mo-Si-B-Ti Alloys. Jom, 2015, 67, 2621-2628.	1.9	36
58	Oxidation Behavior of Al ₈ Co ₁₇ Cr ₁₇ Cu ₈ Fe ₁₇ Ni ₃₃ , Al ₂₃ Co ₁₅ Cr ₂₃ Cu ₈ Fe ₁₅ Ni ₁₅ , and Al ₁₇ Co ₁₇ Cr ₁₇ Cu ₁₇ Fe ₁₇ Ni ₁₇ Compositionally Complex Alloys (High-Entropy Alloys) at Elevated Temperatures in Air. Advanced Engineering Materials, 2015, 17, 1099-1105.	3.5	60
59	Mechanical and Microstructural Investigation of Nickel-Based Superalloy IN718 Manufactured by Selective Laser Melting (SLM). Advanced Engineering Materials, 2015, 17, 1099-1105.	3.5	218
60	Reasons for Volume Contraction after Long-Term Annealing of Waspaloy. Advanced Engineering Materials, 2015, 17, 1106-1112.	3.5	17
61	Quantitative experimental determination of the solid solution hardening potential of rhenium, tungsten and molybdenum in single-crystal nickel-based superalloys. Acta Materialia, 2015, 87, 350-356.	7.9	115
62	Influence of Solid Solution Hardening on Creep Properties of Single-Crystal Nickel-Based Superalloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1125-1130.	2.2	32
63	High-Temperature Tensile Strength of Al ₁₀ Co ₂₅ Cr ₈ Fe ₁₅ Ni ₃₆ Ti ₆ Compositionally Complex Alloy (High-Entropy Alloy). Jom, 2015, 67, 2271-2277.	1.9	140
64	Influence of W, Mo and Ti trace elements on the phase separation in Al ₈ Co ₁₇ Cr ₁₇ Cu ₈ Fe ₁₇ Ni ₃₃ based high entropy alloy. Ultramicroscopy, 2015, 159, 265-271.	1.9	43
65	Transition from internal to external oxidation in binary Ni-Zr and ternary Ni-Zr-Y alloys. Corrosion Science, 2015, 94, 218-223.	6.6	6
66	High temperature (salt melt) corrosion tests with ceramic-coated steel. Materials Chemistry and Physics, 2015, 159, 10-18.	4.0	20
67	Influence of zirconium content on microstructure and creep properties of Mo-9Si-8B alloys. Intermetallics, 2014, 48, 3-9.	3.9	39
68	A novel method for the preparation of porous zirconia ceramics with multimodal pore size distribution. Journal of the European Ceramic Society, 2014, 34, 1311-1319.	5.7	3
69	An Enhanced Three-Step Oxidation Process to Improve Oxide Adhesion on Zirconium Alloys. Oxidation of Metals, 2014, 82, 99-112.	2.1	7
70	High-Temperature Oxidation Behavior of Two Nickel-Based Superalloys Produced by Metal Injection Molding for Aero Engine Applications. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4561-4571.	2.2	24
71	Configuration of superdislocations in the γ^2 -Pt ₃ Al phase of a Pt-based superalloy. Intermetallics, 2014, 48, 71-78.	3.9	19
72	Phase separation in equiatomic AlCoCrFeNi high-entropy alloy. Ultramicroscopy, 2013, 132, 212-215.	1.9	296

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73	Microstructure and Tensile Behavior of Al ₈ Co ₁₇ Cr ₁₇ Cu ₈ Fe ₁₇ Ni ₃₃ (at.%) High-Entropy Alloy. <i>Jom</i> , 2013, 65, 1805-1814.	1.9	66
74	Synthesis and characterization of a Pt-Al-Cr-Ni γ/γ' -coating on the Ni-based superalloy CMSX-4. <i>Surface and Coatings Technology</i> , 2013, 236, 347-352.	4.8	8
75	Influence of oxidation on near-surface γ' fraction and resulting creep behaviour of single crystal Ni-base superalloy M247LC SX. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 577, 179-188.	5.6	55
76	Influence of casting surface on creep behaviour of thin-wall Ni-base superalloy Inconel100. <i>Journal of Materials Processing Technology</i> , 2013, 213, 722-727.	6.3	10
77	Investigation of phases in Al ₂₃ Co ₁₅ Cr ₂₃ Cu ₈ Fe ₁₅ Ni ₁₆ and Al ₈ Co ₁₇ Cr ₁₇ Cu ₈ Fe ₁₇ Ni ₃₃ high entropy alloys and comparison with equilibrium phases predicted by Thermo-Calc. <i>Journal of Alloys and Compounds</i> , 2013, 552, 430-436.	5.5	112
78	Modelling of High Temperature Oxidation of Alumina-Forming Single-Crystal Nickel-Base Superalloys. <i>Acta Materialia</i> , 2012, 60, 5468-5480.	7.9	98
79	Internal oxidation with significant contribution of oxygen diffusion through the oxide phase. <i>Corrosion Science</i> , 2012, 63, 187-192.	6.6	17
80	Characterisation of novel precursor-derived ceramic coatings with glass filler particles on steel substrates. <i>Surface and Coatings Technology</i> , 2012, 207, 319-327.	4.8	41
81	Microstructural study of boron-doped Co-Re-Cr alloys by means of transmission electron microscopy and electron energy-loss spectroscopy. <i>International Journal of Materials Research</i> , 2012, 103, 554-558.	0.3	11
82	Determination of Oxygen Diffusion Along Nickel/Zirconia Phase Boundaries by Internal Oxidation. <i>Oxidation of Metals</i> , 2012, 77, 149-165.	2.1	12
83	High-temperature oxidation behaviour of a single-phase (Mo,Ti) ₅ Si ₃ (Mo-Si-Ti) alloy. <i>Scripta Materialia</i> , 2012, 66, 223-226.	5.2	31
84	Thickness influence on creep properties for Ni-based superalloy M247LC SX. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 550, 254-262.	5.6	52
85	High performance environmental barrier coatings, Part I: Passive filler loaded SiCN system for steel. <i>Journal of the European Ceramic Society</i> , 2011, 31, 3003-3010.	5.7	115
86	Determination of heat transfer coefficient and ceramic mold material parameters for alloy IN738LC investment castings. <i>Journal of Materials Processing Technology</i> , 2011, 211, 181-186.	6.3	71
87	Decomposition in multi-component AlCoCrCuFeNi high-entropy alloy. <i>Acta Materialia</i> , 2011, 59, 182-190.	7.9	656
88	Numerical Determination of Secondary Dendrite Arm Spacing for IN738LC Investment Castings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 1847-1853.	2.2	32
89	Near-Surface Microstructural Reorganization of UHMWPE under Cyclic Load - A Pilot Study. <i>Advanced Engineering Materials</i> , 2011, 13, B476.	3.5	2
90	Molecular Deformation Mechanisms in UHMWPE During Tribological Loading in Artificial Joints. <i>Tribology Letters</i> , 2010, 38, 1-13.	2.6	41

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91	Abrasion resistance of oxidized zirconium in comparison with CoCrMo and titanium nitride coatings for artificial knee joints. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 93B, 244-251.	3.4	33
92	Potential for adhesive wear in friction couples of UHMWPE running against oxidized zirconium, titanium nitride coatings, and cobalt-chromium alloys. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 93B, 468-475.	3.4	29
93	Mechanical characterisation of interpenetrating network metal-ceramic composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1260-1265.	5.6	42
94	Creep properties beyond 1100°C and microstructure of Co-Cr alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 650-656.	5.6	27
95	Modelling and analysis of the oxidation influence on creep behaviour of thin-walled structures of the single-crystal nickel-base superalloy Renâ€šN5 at 980 °C. <i>Acta Materialia</i> , 2010, 58, 1607-1617.	7.9	104
96	Determination of the temperature rise within UHMWPE tibial components during tribological loading. <i>Acta Biomaterialia</i> , 2010, 6, 552-562.	8.3	10
97	Microstructural and micromechanical characterisation of a Pt-Al-Cr-Ni-Re alloy by means of transmission electron microscopy and nanoindentation. <i>International Journal of Materials Research</i> , 2010, 101, 585-588.	0.3	2
98	Enrichment of boron at grain boundaries of platinum-based alloys determined by electron energy loss spectroscopy in a transmission electron microscope. <i>International Journal of Materials Research</i> , 2010, 101, 577-579.	0.3	11
99	Measurement of the lattice misfit of Pt-Al-Cr superalloy by convergent beam electron diffraction (CBED). <i>International Journal of Materials Research</i> , 2010, 101, 580-584.	0.3	0
100	Electron energy losses by channelling-enhanced microanalysis in a γ -strengthened Ni-base alloy with Ti additions. <i>Acta Materialia</i> , 2009, 57, 4217-4223.	7.9	2
101	Determination of phases in the system chromium-platinum (Cr-Pt) and thermodynamic calculations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 510-511, 322-327.	5.6	9
102	Metallic materials for structural applications beyond nickel-based superalloys. <i>Jom</i> , 2009, 61, 61-67.	1.9	92
103	A dislocation density based material model to simulate the anisotropic creep behavior of single-phase and two-phase single crystals. <i>International Journal of Plasticity</i> , 2009, 25, 973-994.	8.8	52
104	First creep results on thin-walled single-crystal superalloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 510-511, 307-311.	5.6	40
105	Development of a precipitation-strengthened Pt-base superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 510-511, 328-331.	5.6	15
106	The effects of Ta additions on the phase compositions and high temperature properties of Pt base alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 479, 306-312.	5.6	6
107	Atomic site location by channelling enhanced microanalysis (ALCHEMI) in γ -strengthened Ni- and Pt-base alloys. <i>Acta Materialia</i> , 2008, 56, 4267-4276.	7.9	18
108	Evaluating strength at ultra-high temperatures—Methods and results. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 483-484, 587-589.	5.6	27

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109	Microstructure, oxidation resistance and high-temperature strength of γ' hardened Pt-base alloys. <i>Intermetallics</i> , 2007, 15, 539-549.	3.9	31
110	Carbon nanofibre-reinforced ultrahigh molecular weight polyethylene for tribological applications. <i>Journal of Applied Polymer Science</i> , 2007, 104, 4173-4181.	2.6	93
111	Hysteretic Heating During Cyclic Loading of Medical Grade Ultra High Molecular Weight Polyethylene (UHMWPE). <i>Advanced Engineering Materials</i> , 2007, 9, 1089-1096.	3.5	15
112	Finite-element modelling of anisotropic single-crystal superalloy creep deformation based on dislocation densities of individual slip systems. <i>International Journal of Materials Research</i> , 2005, 96, 595-601.	0.8	10
113	Comparison of oxide measurement techniques applied to Ti6Al4V. <i>Materials Characterization</i> , 2005, 55, 153-159.	4.4	3
114	A TEM investigation of the γ/γ' phase boundary in Pt-based superalloys. <i>Jom</i> , 2005, 57, 49-51.	1.9	29
115	On the development and investigation of quaternary Pt-based superalloys with Ni additions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005, 36, 567-575.	2.2	28
116	Optimization of composition and heat treatment of age-hardened Pt-Al-Cr-Ni alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005, 36, 681-689.	2.2	9
117	Investigation of near surface structure in order to determine process-temperatures during different machining processes of Ti6Al4V. <i>Scripta Materialia</i> , 2004, 50, 121-126.	5.2	34
118	Fast Internal Oxidation of Ni-Al-Zr-Y Alloys at Low Oxygen Pressure. <i>Oxidation of Metals</i> , 2004, 61, 239-251.	2.1	20
119	Pt-Al-Cr-Ni superalloys: Heat treatment and microstructure. <i>Jom</i> , 2004, 56, 40-43.	1.9	23
120	Temperature dependence of the elastic moduli of the nickel-base superalloy CMSX-4 and its isolated phases. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 298, 26-33.	5.6	194
121	Creep properties of Ni ₃ (AlTiTa) γ' phase single crystals. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000, 31, 1733-1740.	2.2	10
122	Orientation-dependent creep behavior and microstructure of nickel solid solution single crystals. <i>Acta Materialia</i> , 1999, 47, 397-406.	7.9	18
123	Material model describing the orientation dependent creep behavior of single crystals based on dislocation densities of slip systems. <i>International Journal of Plasticity</i> , 1999, 15, 285-298.	8.8	30
124	Measurement of the lattice misfit in the single crystal nickel based superalloys CMSX-4, SRR99 and SC16 by convergent beam electron diffraction. <i>Acta Materialia</i> , 1998, 46, 4395-4404.	7.9	120
125	Anisotropic creep behavior of a nickel-based superalloy compared with single phase nickel solid solution and γ' phase single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997, 234-236, 237-241.	5.6	14
126	High-temperature deformation properties of nickel single crystals. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996, 27, 1229-1240.	2.2	20

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127	Chemical composition measurements of a nickel-base superalloy by atom probe field ion microscopy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995, 203, 69-74.	5.6	116
128	Analysis of matrix and interfacial dislocations in the nickel base superalloy CMSX-4 after creep in $[1\bar{1},11]$ direction. <i>Scripta Metallurgica Et Materialia</i> , 1994, 31, 1481-1486.	1.0	34
129	Neutron scattering experiments with a nickel base superalloy part I: Material and experiment. <i>Scripta Metallurgica Et Materialia</i> , 1994, 31, 285-290.	1.0	43
130	Neutron scattering experiments with a nickel base superalloy part II: Analysis of intensity profiles. <i>Scripta Metallurgica Et Materialia</i> , 1994, 31, 291-296.	1.0	43
131	Calculation of the internal stresses and strains in the microstructure of a single crystal nickel-base superalloy during creep. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 3401-3411.	1.8	85
132	Dislocation energies for an anisotropic cubic crystal calculations and observations for NiAl. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1993, 67, 307-323.	0.6	25
133	Microstructure and dislocation configurations in fatigued $[001]$ specimens of the nickel-based superalloy CMSX-6. <i>Scripta Metallurgica Et Materialia</i> , 1991, 25, 1845-1850.	1.0	33
134	Calculations of internal stresses in the γ/γ' microstructure of a nickel-base superalloy with high volume fraction of γ' -phase. <i>Scripta Metallurgica</i> , 1989, 23, 1839-1844.	1.2	94