Gunther Eggeler

List of Publications by Year
in descending order

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437 papers	23,597 citations	12330 69 h-index	11052 137 g-index
449 all docs	449 docs citations	449 times ranked	11362 citing authors

#	Article	IF	Citations
1	The effect of deviations from precise [001] tensile direction on creep of Ni-base single crystal superalloys. Scripta Materialia, 2022, 207, 114274.	5.2	12
2	Elementary deformation processes in high temperature plasticity of Ni- and Co-base single-crystal superalloys with Î³/Î³â€² microstructures. , 2022, , 141-189.		1
3	Effects of Cr/Ni ratio on physical properties of Cr-Mn-Fe-Co-Ni high-entropy alloys. Acta Materialia, 2022, 227, 117693.	7.9	47
4	Crystallographic Analysis of Plate and Lath Martensite in Fe-Ni Alloys. Crystals, 2022, 12, 156.	2.2	10
5	Effects of aging on the stress-induced martensitic transformation and cyclic superelastic properties in Co-Ni-Ga shape memory alloy single crystals under compression. Acta Materialia, 2022, 226, 117623.	7.9	13
6	On the nature of internal interfaces in tempered martensite ferritic steels. International Journal of Materials Research, 2022, 94, 511-520.	0.3	4
7	On the impact of nanometric Î³â€™ precipitates on the tensile deformation of superelastic Co49Ni21Ga30. Acta Materialia, 2022, 230, 117835.	7.9	1
8	The role of electrons during the martensitic phase transformation in NiTi-based shape memory alloys. Materials Today Physics, 2022, 24, 100671.	6.0	2
9	On the determination of the volume fraction of Ni₄Ti₃ precipitates in binary Ni-rich NiTi shape memory alloys. International Journal of Materials Research, 2022, 95, 518-524.	0.3	0
10	Boron segregation and creep in ultra-fine grained tempered martensite ferritic steels. International Journal of Materials Research, 2022, 96, 743-748.	0.3	0
11	Einfluss von thermomechanischer Behandlung auf die Mikrostruktur von pseudoelastischem NiTi am Beispiel von Komponenten fÃ¼r Brillengestelle. Praktische Metallographie/Practical Metallography, 2022, 44, 317-333.	0.3	0
12	Linear growth of reaction layer during in-situ TEM annealing of thin film Al/Ni diffusion couples. Journal of Alloys and Compounds, 2022, 922, 165926.	5.5	3
13	Effect of off-stoichiometric compositions on microstructures and phase transformation behavior in Ni-Cu-Pd-Ti-Zr-Hf high entropy shape memory alloys. Journal of Alloys and Compounds, 2021, 857, 157467.	5.5	13
14	Dislocation networks in gamma/gammaâ€™-microstructures formed during selective laser melting of a Ni-base superalloy. Scripta Materialia, 2021, 190, 121-125.	5.2	7
15	Surface metal matrix nano-composite of magnesium/hydroxyapatite produced by stir-centrifugal casting. Surface and Coatings Technology, 2021, 406, 126654.	4.8	9
16	Degradation behavior of the MgO/HA surface ceramic nano-composites in the simulated body fluid and its use as a potential bone implant. Materials Chemistry and Physics, 2021, 258, 123965.	4.0	9
17	Effect of interface dislocations on mass flow during high temperature and low stress creep of single crystal Ni-base superalloys. Scripta Materialia, 2021, 191, 23-28.	5.2	28
18	Thermoelastic properties and Î³â€™-solvus temperatures of single-crystal Ni-base superalloys. Journal of Materials Science, 2021, 56, 7637-7658.	3.7	12

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19	On the Size Effect of Additives in Amorphous Shape Memory Polymers. Materials, 2021, 14, 327.	2.9	4
20	A Mechanical Analysis of Chemically Stimulated Linear Shape Memory Polymer Actuation. Materials, 2021, 14, 481.	2.9	8
21	Effect of cooling rate on the microstructure and mechanical properties of a low-carbon low-alloyed steel. Journal of Materials Science, 2021, 56, 11098-11113.	3.7	6
22	Impact of test temperature on functional degradation in Fe-Ni-Co-Al-Ta shape memory alloy single crystals. Materials Letters, 2021, 291, 129430.	2.6	3
23	Laboratory-Scale Processing and Performance Assessment of Tiâ€“Ta High-Temperature Shape Memory Spring Actuators. Shape Memory and Superelasticity, 2021, 7, 222-234.	2.2	1
24	A 3D Analysis of Dendritic Solidification and Mosaicity in Ni-Based Single Crystal Superalloys. Materials, 2021, 14, 4904.	2.9	6
25	TEM replica analysis of particle phases in a tempered martensite ferritic Cr steel after long term creep. Materials Characterization, 2021, 181, 111396.	4.4	4
26	Processing of a single-crystalline CrCoNi medium-entropy alloy and evolution of its thermal expansion and elastic stiffness coefficients with temperature. Scripta Materialia, 2020, 177, 44-48.	5.2	44
27	Analysis of strengthening due to grain boundaries and annealing twin boundaries in the CrCoNi medium-entropy alloy. International Journal of Plasticity, 2020, 124, 155-169.	8.8	167
28	Exploring the fundamentals of Ni-based superalloy single crystal (SX) alloy design: Chemical composition vs. microstructure. Materials and Design, 2020, 195, 108976.	7.0	37
29	Effect of Aspect Ratio on the Deformation Behavior of Dislocation-Free Ni3Al Nanocubes. Nanomaterials, 2020, 10, 2230.	4.1	3
30	On the stress and temperature dependence of low temperature and high stress shear creep in Ni-base single crystal superalloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 795, 139961.	5.6	10
31	Bulk and Surface Low Temperature Phase Transitions in the Mg-Alloy EZ33A. Metals, 2020, 10, 1127.	2.3	44
32	On the rhenium segregation at the low angle grain boundary in a single crystal Ni-base superalloy. Scripta Materialia, 2020, 185, 88-93.	5.2	29
33	Pattern-forming nanoprecipitates in NiTi-related high entropy shape memory alloys. Scripta Materialia, 2020, 186, 132-135.	5.2	6
34	Revealing the two-step nucleation and growth mechanism of vanadium carbonitrides in microalloyed steels. Scripta Materialia, 2020, 187, 350-354.	5.2	24
35	How Nanoscale Dislocation Reactions Govern Low- Temperature and High-Stress Creep of Ni-Base Single Crystal Superalloys. Crystals, 2020, 10, 134.	2.2	10
36	Unveiling the Re effect in Ni-based single crystal superalloys. Nature Communications, 2020, 11, 389.	12.8	101

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37	Chemical complexity, microstructure and martensitic transformation in high entropy shape memory alloys. Intermetallics, 2020, 122, 106792.	3.9	43
38	Interdiffusion in Crâ€“Feâ€“Coâ€“Ni medium-entropy alloys. Intermetallics, 2020, 122, 106789.	3.9	49
39	Experimental and Theoretical Investigation on Phase Formation and Mechanical Properties in Crâ€“Coâ€“Ni Alloys Processed Using a Novel Thin-Film Quenching Technique. ACS Combinatorial Science, 2020, 22, 232-247.	3.8	3
40	On the influence of crystallography on creep of circular notched single crystal superalloy specimens. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 782, 139255.	5.6	3
41	Ni-base superalloy single crystal (SX) mosaicity characterized by the Rotation Vector Base Line Electron Back Scatter Diffraction (RVB-EBSD) method. Ultramicroscopy, 2019, 206, 112817.	1.9	11
42	On the effects of microstructure on the mechanical properties of open-pore Alâ€“11Zn foams. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 759, 552-564.	5.6	3
43	Creep properties of single crystal Ni-base superalloys (SX): A comparison between conventionally cast and additive manufactured CMSX-4 materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 762, 138098.	5.6	38
44	Microstructure â€“ Property correlations for additively manufactured NiTi based shape memory alloys. Materialia, 2019, 8, 100456.	2.7	50
45	Benchmark dataset of the effect of grain size on strength in the single-phase FCC CrCoNi medium entropy alloy. Data in Brief, 2019, 27, 104592.	1.0	8
46	Impact of Heatingâ€“Cooling Rates on the Functional Properties of Tiâ€“20Taâ€“5Al High-Temperature Shape Memory Alloys. Shape Memory and Superelasticity, 2019, 5, 95-105.	2.2	2
47	On the Oxidation Behavior and Its Influence on the Martensitic Transformation of Tiâ€“Ta High-Temperature Shape Memory Alloys. Shape Memory and Superelasticity, 2019, 5, 63-72.	2.2	5
48	Effect of Nb on improving the impact toughness of Mo-containing low-alloyed steels. Journal of Materials Science, 2019, 54, 7307-7321.	3.7	10
49	On the rejuvenation of crept Ni-Base single crystal superalloys (SX) by hot isostatic pressing (HIP). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 758, 202-214.	5.6	34
50	On Crystal Mosaicity in Single Crystal Ni-Based Superalloys. Crystals, 2019, 9, 149.	2.2	36
51	Repair of Ni-based single-crystal superalloys using vacuum plasma spray. Materials and Design, 2019, 168, 107656.	7.0	13
52	Stress-induced formation of TCP phases during high temperature low cycle fatigue loading of the single-crystal Ni-base superalloy ERBO/1. Acta Materialia, 2019, 168, 343-352.	7.9	39
53	A Kinetic Study on the Evolution of Martensitic Transformation Behavior and Microstructures in Tiâ€“Ta High-Temperature Shape-Memory Alloys During Aging. Shape Memory and Superelasticity, 2019, 5, 16-31.	2.2	6
54	Tension/Compression asymmetry of a creep deformed single crystal Co-base superalloy. Acta Materialia, 2019, 166, 597-610.	7.9	48

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55	On the evolution of dislocation cell structures in two Al-alloys (Al-5Mg and Al-11Zn) during reciprocal sliding wear at high homologous temperatures. Wear, 2019, 418-419, 1-12.	3.1	3
56	Discovery of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ï‰</mml:mi></mml:math>-free high-temperature Ti-Ta-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>X</mml:mi></mml:math>shape memory alloys from first-principles calculations. Physical Review Materials, 2019, 3, .	2.4	7
57	High-performance elastocaloric materials for the engineering of bulk- and micro-cooling devices. MRS Bulletin, 2018, 43, 280-284.	3.5	37
58	A phenomenological creep model for nickel-base single crystal superalloys at intermediate temperatures. Modelling and Simulation in Materials Science and Engineering, 2018, 26, 055001.	2.0	9
59	On the nucleation of planar faults during low temperature and high stress creep of single crystal Ni-base superalloys. Acta Materialia, 2018, 144, 642-655.	7.9	39
60	Temperature-induced transformations and martensitic reorientation processes in ultra-fine-grained Ni rich pseudoelastic NiTi wires studied by electrical resistance. Journal of Alloys and Compounds, 2018, 735, 2574-2583.	5.5	2
61	Testing of Ni-base superalloy single crystals with circular notched miniature tensile creep (CNMTC) specimens. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 223-231.	5.6	16
62	On the segregation of Re at dislocations in the Î³' phase of Ni-based single crystal superalloys. Materialia, 2018, 4, 109-114.	2.7	51
63	On the influence of crystallography and dendritic microstructure on micro shear behavior of single crystal Ni-based superalloys. Acta Materialia, 2018, 160, 173-184.	7.9	18
64	Martensite aging in ã€˜001ã€‰ oriented Co49Ni21Ga30 single crystals in tension. Functional Materials Letters, 2018, 11, 1850024.	1.2	9
65	Rejuvenation of Single-Crystal Ni-Base Superalloy Turbine Blades: Unlimited Service Life?. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4262-4273.	2.2	21
66	The Influence of Water and Solvent Uptake on Functional Properties of Shape-Memory Polymers. International Journal of Polymer Science, 2018, 2018, 1-15.	2.7	8
67	Carbide types in an advanced microalloyed bainitic/ferritic Crâ€“Mo Steel â€“ TEM observations and thermodynamic calculations. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 726-740.	0.9	4
68	How evolving multiaxial stress states affect the kinetics of rafting during creep of single crystal Ni-base superalloys. Acta Materialia, 2018, 158, 381-392.	7.9	32
69	Microstructure and Mechanical Properties of CMSX-4 Single Crystals Prepared by Additive Manufacturing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3781-3792.	2.2	114
70	Ultrahigh-temperature tensile creep of TiC-reinforced Mo-Si-B-based alloy. Scientific Reports, 2018, 8, 10487.	3.3	54
71	A TEM Investigation of Columnar-Structured Thermal Barrier Coatings Deposited by Plasma Spray-Physical Vapor Deposition (PS-PVD). Plasma Chemistry and Plasma Processing, 2018, 38, 791-802.	2.4	13
72	On the accumulation of irreversible plastic strain during compression loading of open-pore metallic foams. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 728, 40-44.	5.6	5

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73	On the Electropolishing Mechanism of Nickel Titanium in Methanolic Sulfuric acid â˜’ An Electrochemical Impedance Study. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800011.	1.8	7
74	On the diffusive phase transformation mechanism assisted by extended dislocations during creep of a single crystal CoNi-based superalloy. Acta Materialia, 2018, 155, 362-371.	7.9	89
75	On Shear Testing of Single Crystal Ni-Base Superalloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3951-3962.	2.2	7
76	Unusual composition dependence of transformation temperatures in Ti-Ta-X shape memory alloys. Physical Review Materials, 2018, 2, .	2.4	11
77	Effect of temperature and texture on the reorientation of martensite variants in NiTi shape memory alloys. Acta Materialia, 2017, 127, 143-152.	7.9	122
78	Reasons for the superior mechanical properties of medium-entropy CrCoNi compared to high-entropy CrMnFeCoNi. Acta Materialia, 2017, 128, 292-303.	7.9	803
79	Optimizing Niâ€“Ti-based shape memory alloys for ferroic cooling. Functional Materials Letters, 2017, 10, 1740001.	1.2	18
80	On the evolution of cast microstructures during processing of single crystal Ni-base superalloys using a Bridgman seed technique. Materials and Design, 2017, 128, 98-111.	7.0	38
81	Composition, Constitution and Phase Transformation Behavior in Thin-Film and Bulk Tiâ€“Niâ€“Y. Shape Memory and Superelasticity, 2017, 3, 49-56.	2.2	3
82	Grain Nucleation and Growth in Deformed NiTi Shape Memory Alloys: An In Situ TEM Study. Shape Memory and Superelasticity, 2017, 3, 347-360.	2.2	10
83	Rejuvenation of creep resistance of a Ni-base single-crystal superalloy by hot isostatic pressing. Materials and Design, 2017, 134, 418-425.	7.0	36
84	Identification of a ternary Î¼-phase in the Co-Ti-W system â€“ An advanced correlative thin-film and bulk combinatorial materials investigation. Acta Materialia, 2017, 138, 100-110.	7.9	12
85	Molecular dynamics simulations of entangled polymers: The effect of small molecules on the glass transition temperature. Procedia Computer Science, 2017, 108, 265-271.	2.0	14
86	On the competition between the stress-induced formation of martensite and dislocation plasticity during crack propagation in pseudoelastic NiTi shape memory alloys. Journal of Materials Research, 2017, 32, 4433-4442.	2.6	19
87	Microstructural evolution and functional fatigue of a Tiâ€“25Ta high-temperature shape memory alloy. Journal of Materials Research, 2017, 32, 4287-4295.	2.6	11
88	Bioactivity and electrochemical behavior of hydroxyapatite-silicon-multi walled carbon nano-tubes composite coatings synthesized by EPD on NiTi alloys in simulated body fluid. Materials Science and Engineering C, 2017, 71, 473-482.	7.3	43
89	Transmission electron microscopy study of the microstructural evolution during high-temperature and low-stress (011) [11] shear creep deformation of the superalloy single crystal LEK 94. Journal of Materials Research, 2017, 32, 4491-4502.	2.6	5
90	Transmission Electron Microscopy of a CMSX-4 Ni-Base Superalloy Produced by Selective Electron Beam Melting. Metals, 2016, 6, 258.	2.3	20

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91	Nanostructured Tiâ€“Ta thin films synthesized by combinatorial glancing angle sputter deposition. Nanotechnology, 2016, 27, 495604.	2.6	13
92	Double minimum creep of single crystal Ni-base superalloys. Acta Materialia, 2016, 112, 242-260.	7.9	74
93	Decomposition of the single-phase high-entropy alloy CrMnFeCoNi after prolonged anneals at intermediate temperatures. Acta Materialia, 2016, 112, 40-52.	7.9	653
94	Microstructure evolution and critical stress for twinning in the CrMnFeCoNi high-entropy alloy. Acta Materialia, 2016, 118, 152-163.	7.9	823
95	On Local Phase Equilibria and the Appearance of Nanoparticles in the Microstructure of Singleâ€Crystal Niâ€Base Superalloys. Advanced Engineering Materials, 2016, 18, 1556-1567.	3.5	39
96	Diffusion of small molecules in a shape memory polymer. Journal of Materials Science, 2016, 51, 9792-9804.	3.7	12
97	Experimental Methods for Investigation of Shape Memory Based Elastocaloric Cooling Processes and Model Validation. Journal of Visualized Experiments, 2016, , .	0.3	2
98	Assessment of strain hardening in copper single crystals using in situ SEM microshear experiments. Acta Materialia, 2016, 113, 320-334.	7.9	20
99	The effect of stress, temperature and loading direction on the creep behaviour of Ni-base single crystal superalloy miniature tensile specimens. Materials at High Temperatures, 2016, 33, 346-360.	1.0	63
100	On the Effect of Hot Isostatic Pressing on the Creep Life of a Single Crystal Superalloys. Advanced Engineering Materials, 2016, 18, 1381-1387.	3.5	36
101	Preparing hydroxyapatite-silicon composite suspensions with homogeneous distribution of multi-walled carbon nano-tubes for electrophoretic coating of NiTi bone implant and their effect on the surface morphology. Applied Surface Science, 2016, 366, 158-165.	6.1	29
102	Oxidation Behavior of the CrMnFeCoNi High-Entropy Alloy. Oxidation of Metals, 2016, 85, 629-645.	2.1	190
103	Twinning-Induced Elasticity in NiTi Shape Memory Alloys. Shape Memory and Superelasticity, 2016, 2, 145-159.	2.2	29
104	Characterization of mechanical properties of hydroxyapatiteâ€“siliconâ€“multi walled carbon nano tubes composite coatings synthesized by EPD on NiTi alloys for biomedical application. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 337-352.	3.1	37
105	The influence of Si as reactive bonding agent in the electrophoretic coatings of HAâ€“Siâ€“MWCNTs on NiTi alloys. Journal of Materials Engineering and Performance, 2016, 25, 390-400.	2.5	20
106	Cyclic degradation of titaniumâ€“tantalum high-temperature shape memory alloys â€” the role of dislocation activity and chemical decomposition. Functional Materials Letters, 2015, 08, 1550062.	1.2	10
107	A quantitative metallographic assessment of the evolution of porosity during processing and creep in single crystal Ni-base super alloys. Materialwissenschaft Und Werkstofftechnik, 2015, 46, 577-590.	0.9	26
108	Influence of microstructure on macroscopic elastic properties and thermal expansion of nickel-base superalloys ERBO/1 and LEK94. Materialwissenschaft Und Werkstofftechnik, 2015, 46, 563-576.	0.9	30

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109	Microstructure, Shape Memory Effect and Functional Stability of Ti₆₇Ta₃₃ Thin Films. Advanced Engineering Materials, 2015, 17, 1425-1433.	3.5	15
110	Variational prediction of the mechanical behavior of shape memory alloys based on thermal experiments. Journal of the Mechanics and Physics of Solids, 2015, 80, 86-102.	4.8	18
111	Thermal Stabilization of NiTiCuV Shape Memory Alloys: Observations During Elastocaloric Training. Shape Memory and Superelasticity, 2015, 1, 132-141.	2.2	68
112	On the identification of superdislocations in the Î³â€²-phase of single-crystal Ni-base superalloys â€“ An application of the LACBED method to complex microstructures. Acta Materialia, 2015, 87, 34-44.	7.9	17
113	Atomic layer-by-layer construction of Pd on nanoporous gold via underpotential deposition and displacement reaction. RSC Advances, 2015, 5, 19409-19417.	3.6	24
114	Damage evolution in pseudoelastic polycrystalline Coâ€“Niâ€“Ga high-temperature shape memory alloys. Journal of Alloys and Compounds, 2015, 633, 288-295.	5.5	38
115	On the role of Re in the stress and temperature dependence of creep of Ni-base single crystal superalloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 382-395.	5.6	69
116	Advanced Scale Bridging Microstructure Analysis of Single Crystal Niâ€Base Superalloys. Advanced Engineering Materials, 2015, 17, 216-230.	3.5	117
117	The effect of cast microstructure and crystallography on rafting, dislocation plasticity and creep anisotropy of single crystal Ni-base superalloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 626, 305-312.	5.6	41
118	Martensite aging â€“ Avenue to new high temperature shape memory alloys. Acta Materialia, 2015, 89, 298-304.	7.9	51
119	[001] preferentially-oriented 2D tungsten disulfide nanosheets as anode materials for superior lithium storage. Journal of Materials Chemistry A, 2015, 3, 17811-17819.	10.3	61
120	Ledges and grooves at Î³/Î³â€² interfaces of single crystal superalloys. Acta Materialia, 2015, 90, 105-117.	7.9	49
121	Microstructural evolution of a CoCrFeMnNi high-entropy alloy after swaging and annealing. Journal of Alloys and Compounds, 2015, 647, 548-557.	5.5	158
122	Nanoindentation studies of the mechanical properties of the Î¼ phase in a creep deformed Re containing nickel-based superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 634, 202-208.	5.6	72
123	On the effect of alloy composition on martensite start temperatures and latent heats in Niâ€“Ti-based shape memory alloys. Acta Materialia, 2015, 90, 213-231.	7.9	320
124	Functional Fatigue and Tensionâ€“Compression Asymmetry in [001]-Oriented Co49Ni21Ga30 High-Temperature Shape Memory Alloy Single Crystals. Shape Memory and Superelasticity, 2015, 1, 6-17.	2.2	33
125	The nucleation of Mo-rich Laves phase particles adjacent to M23C6 micrograin boundary carbides in 12% Cr tempered martensite ferritic steels. Acta Materialia, 2015, 90, 94-104.	7.9	140
126	On the widths of the hysteresis of mechanically and thermally induced martensitic transformations in Niâ€“Ti-based shape memory alloys. International Journal of Materials Research, 2015, 106, 1029-1039.	0.3	18

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127	Three-Dimensional Cu Foam-Supported Single Crystalline Mesoporous Cu₂O Nanothorn Arrays for Ultra-Highly Sensitive and Efficient Nonenzymatic Detection of Glucose. ACS Applied Materials & Interfaces, 2015, 7, 20215-20223.	8.0	125
128	Processing of NiTi shape memory sheets â€“ Microstructural heterogeneity and evolution of texture. Journal of Alloys and Compounds, 2015, 651, 333-339.	5.5	29
129	Microstructural evolution in a Ti â€“ Ta high-temperature shape memory alloy during creep. International Journal of Materials Research, 2015, 106, 331-341.	0.3	8
130	Transformation activity in ultrafine grained pseudoelastic NiTi wires during small amplitude loading/unloading experiments. Journal of Alloys and Compounds, 2015, 651, 655-665.	5.5	7
131	Functional and structural fatigue of titanium tantalum high temperature shape memory alloys (HT) Tj ETQq1 1 0.784314 rgBT /Overlo Processing, 2015, 620, 359-366.	5.6	36
132	Temperature dependencies of the elastic moduli and thermal expansion coefficient of an equiatomic, single-phase CoCrFeMnNi high-entropy alloy. Journal of Alloys and Compounds, 2015, 623, 348-353.	5.5	331
133	Modeling thermally induced martensitic transformations in nickel titanium shape memory alloys. Continuum Mechanics and Thermodynamics, 2015, 27, 461-481.	2.2	1
134	InÂVitro Comparison of the Sagittal Split Osteotomy With and Without Inferior Border Osteotomy. Journal of Oral and Maxillofacial Surgery, 2015, 73, 316-323.	1.2	11
135	Multi-component nanoporous platinumâ€“rutheniumâ€“copperâ€“osmiumâ€“iridium alloy with enhanced electrocatalytic activity towards methanol oxidation and oxygen reduction. Journal of Power Sources, 2015, 273, 324-332.	7.8	78
136	Infrared transmission spectroscopy of charge carriers in self-assembled InAs quantum dots under surface electric fields. Journal of Physics Condensed Matter, 2014, 26, 505801.	1.8	5
137	On the functional degradation of binary titaniumâ€“tantalum high-temperature shape memory alloys â€” A new concept for fatigue life extension. Functional Materials Letters, 2014, 07, 1450042.	1.2	16
138	Ingot metallurgy and microstructural characterization of Tiâ€“Ta alloys. International Journal of Materials Research, 2014, 105, 156-167.	0.3	25
139	Experimental Investigation and Numerical Simulation of the Mechanical and Thermal Behavior of a Superelastic Shape Memory Alloy Beam During Bending. , 2014, , .		4
140	Micromechanical Modeling of Creep Damage in a Copper-antimony Alloy. , 2014, 3, 21-26.		6
141	On the electropolishing of NiTi braided stents - challenges and solutions. Materialwissenschaft Und Werkstofftechnik, 2014, 45, 920-929.	0.9	15
142	Large-scale synthesis and catalytic activity of nanoporous Cuâ€“O system towards CO oxidation. RSC Advances, 2014, 4, 65004-65011.	3.6	17
143	Mesostructural Design and Manufacturing of Open-Pore Metal Foams by Investment Casting. Advances in Materials Science and Engineering, 2014, 2014, 1-9.	1.8	34
144	Comparative studies on the accumulation of strain and recovery ratio of VeriflexÂ®, a shape-memory polymer for a high strain (âˆ†Šm = 210%). High Performance Polymers, 2014, 26, 20-26.	1.8	3

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145	Effect of ternary element addition on the corrosion behaviour of Ni<scp>T</scp>i shape memory alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 18-22.	1.5	28
146	On the nature of Î³â€² phase cutting and its effect on high temperature and low stress creep anisotropy of Ni-base single crystal superalloys. Acta Materialia, 2014, 69, 246-264.	7.9	113
147	Microshear deformation of gold single crystals. Acta Materialia, 2014, 62, 225-238.	7.9	41
148	Interface reactions of Ag@TiO2 nanocomposite films. Materials Chemistry and Physics, 2014, 145, 90-98.	4.0	6
149	The evolution of tribolayers during high temperature sliding wear. Wear, 2014, 315, 1-10.	3.1	85
150	Direct microstructural evidence for the stress induced formation of martensite during nanonindentation of NiTi. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 591, 33-37.	5.6	16
151	Spectroelectrochemical and morphological studies of the ageing of silver nanoparticles embedded in ultra-thin perfluorinated sputter deposited films. Thin Solid Films, 2014, 571, 161-167.	1.8	0
152	On the nucleation of Laves phase particles during high-temperature exposure and creep of tempered martensite ferritic steels. Acta Materialia, 2014, 81, 230-240.	7.9	129
153	Cyclic degradation mechanisms in aged FeNiCoAlTa shape memory single crystals. Acta Materialia, 2014, 79, 126-137.	7.9	53
154	Sudden stress-induced transformation events during nanoindentation of NiTi shape memory alloys. Acta Materialia, 2014, 78, 144-160.	7.9	44
155	On the physical nature of tribolayers and wear debris after sliding wear in a superalloy/steel tribosystem at 25 and 300Â°C. Wear, 2014, 317, 26-38.	3.1	56
156	Sigma phase evolution in Coâ€“Reâ€“Cr-based alloys at 1100ÂÂ°C. Intermetallics, 2014, 48, 54-61.	3.9	11
157	Orientation dependence of stress-induced martensite formation during nanoindentation in NiTi shape memory alloys. Acta Materialia, 2014, 68, 19-31.	7.9	45
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