

Abrahm Karaman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/699126/publications.pdf>

Version: 2024-02-01

382
papers

16,114
citations

12330

69
h-index

30922

102
g-index

390
all docs

390
docs citations

390
times ranked

7210
citing authors

#	ARTICLE	IF	CITATIONS
1	High temperature shape memory alloys. <i>International Materials Reviews</i> , 2010, 55, 257-315.	19.3	762
2	Magnetic Field-Induced Phase Transformation in NiMnCoIn Magnetic Shape-Memory Alloys: A New Actuation Mechanism with Large Work Output. <i>Advanced Functional Materials</i> , 2009, 19, 983-998.	14.9	384
3	Deformation of single crystal Hadfield steel by twinning and slip. <i>Acta Materialia</i> , 2000, 48, 1345-1359.	7.9	364
4	Magnetic field and stress induced martensite reorientation in NiMnGa ferromagnetic shape memory alloy single crystals. <i>Acta Materialia</i> , 2006, 54, 233-245.	7.9	293
5	Modeling the deformation behavior of Hadfield steel single and polycrystals due to twinning and slip. <i>Acta Materialia</i> , 2000, 48, 2031-2047.	7.9	254
6	Compressive response of NiTi single crystals. <i>Acta Materialia</i> , 2000, 48, 3311-3326.	7.9	249
7	Competing mechanisms and modeling of deformation in austenitic stainless steel single crystals with and without nitrogen. <i>Acta Materialia</i> , 2001, 49, 3919-3933.	7.9	196
8	Thermomechanical cyclic response of an ultrafine-grained NiTi shape memory alloy. <i>Acta Materialia</i> , 2008, 56, 3630-3646.	7.9	187
9	Mechanical twinning and texture evolution in severely deformed Ti-6Al-4V at high temperatures. <i>Acta Materialia</i> , 2006, 54, 3755-3771.	7.9	169
10	TEM study of structural and microstructural characteristics of a precipitate phase in Ni-rich Ni-Ti-Hf and Ni-Ti-Zr shape memory alloys. <i>Acta Materialia</i> , 2013, 61, 6191-6206.	7.9	169
11	Energy harvesting using martensite variant reorientation mechanism in a NiMnGa magnetic shape memory alloy. <i>Applied Physics Letters</i> , 2007, 90, 172505.	3.3	155
12	A method to enhance cyclic reversibility of NiTiHf high temperature shape memory alloys. <i>Scripta Materialia</i> , 2006, 54, 2203-2208.	5.2	153
13	An ultra-high strength martensitic steel fabricated using selective laser melting additive manufacturing: Densification, microstructure, and mechanical properties. <i>Acta Materialia</i> , 2020, 186, 199-214.	7.9	151
14	Assessing printability maps in additive manufacturing of metal alloys. <i>Acta Materialia</i> , 2019, 176, 199-210.	7.9	146
15	Shape memory and pseudoelastic behavior of 51.5%Ni-Ti single crystals in solutionized and overaged state. <i>Acta Materialia</i> , 2001, 49, 3609-3620.	7.9	140
16	Effect of grain size on prismatic slip in Mg-3Al-1Zn alloy. <i>Scripta Materialia</i> , 2012, 67, 439-442.	5.2	136
17	On the stress-assisted magnetic-field-induced phase transformation in Ni ₂ MnGa ferromagnetic shape memory alloys. <i>Acta Materialia</i> , 2007, 55, 4253-4269.	7.9	134
18	Giant elastocaloric effect in directionally solidified Ni-Mn-In magnetic shape memory alloy. <i>Scripta Materialia</i> , 2015, 105, 42-45.	5.2	133

#	ARTICLE	IF	CITATIONS
19	On the mechanical behavior of single crystal NiTi shape memory alloys and related polycrystalline phenomenon. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 317, 85-92.	5.6	118
20	Mechanical and wear properties of ultrafine-grained pure Ti produced by multi-pass equal-channel angular extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 517, 97-104.	5.6	115
21	Microstructural characterization and shape memory characteristics of the Ni _{50.3} Ti _{34.7} Hf ₁₅ shape memory alloy. <i>Acta Materialia</i> , 2015, 83, 48-60.	7.9	115
22	Spatial Control of Functional Response in 4D-Printed Active Metallic Structures. <i>Scientific Reports</i> , 2017, 7, 46707.	3.3	109
23	Transformation behaviour and unusual twinning in a NiTi shape memory alloy ausformed using equal channel angular extrusion. <i>Philosophical Magazine</i> , 2005, 85, 1729-1745.	1.6	107
24	The effect of precipitates on the superelastic response of [1 0 0] oriented FeMnAlNi single crystals under compression. <i>Acta Materialia</i> , 2015, 97, 234-244.	7.9	104
25	Microstructure evolution and mechanical behavior of bulk copper obtained by consolidation of micro- and nanopowders using equal-channel angular extrusion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004, 35, 2935-2949.	2.2	103
26	An inverse optimization strategy to determine single crystal mechanical behavior from polycrystal tests: Application to AZ31 Mg alloy. <i>International Journal of Plasticity</i> , 2014, 57, 1-15.	8.8	103
27	Cyclic deformation behavior of single crystal NiTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 314, 67-74.	5.6	102
28	Effect of precipitation on mechanical and wear properties of ultrafine-grained Cu-Cr-Zr alloy. <i>Wear</i> , 2014, 311, 149-158.	3.1	99
29	The effect of heat treatments on Ni ₄₃ Mn ₄₂ Co ₄ Sn ₁₁ meta-magnetic shape memory alloys for magnetic refrigeration. <i>Acta Materialia</i> , 2014, 74, 66-84.	7.9	97
30	Detwinning in NiTi alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003, 34, 5-13.	2.2	95
31	Extrinsic stacking faults and twinning in hadfield manganese steel single crystals. <i>Scripta Materialia</i> , 2001, 44, 337-343.	5.2	94
32	Grain refinement vs. crystallographic texture: Mechanical anisotropy in a magnesium alloy. <i>Scripta Materialia</i> , 2011, 64, 193-196.	5.2	94
33	Microstructure, crystallographic texture, and plastic anisotropy evolution in an Mg alloy during equal channel angular extrusion processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7616-7627.	5.6	94
34	Cyclic stress-strain response of ultrafine grained copper. <i>International Journal of Fatigue</i> , 2006, 28, 243-250.	5.7	92
35	A comparative study of the cytotoxicity and corrosion resistance of nickel-titanium and titanium-niobium shape memory alloys. <i>Acta Biomaterialia</i> , 2012, 8, 2863-2870.	8.3	92
36	On the effect of gamma phase formation on the pseudoelastic performance of polycrystalline Fe-Mn-Al-Ni shape memory alloys. <i>Scripta Materialia</i> , 2015, 108, 23-26.	5.2	92

#	ARTICLE	IF	CITATIONS
37	Tailored thermal expansion alloys. <i>Acta Materialia</i> , 2016, 102, 333-341.	7.9	92
38	The effect of nanoprecipitates on the superelastic properties of FeNiCoAlTa shape memory alloy single crystals. <i>Acta Materialia</i> , 2013, 61, 3445-3455.	7.9	91
39	Long-Term Oxidation of Ti₂AlC in Air and Water Vapor at 1000â€“1300Â°C Temperature Range. <i>Journal of the Electrochemical Society</i> , 2011, 159, C90-C96.	2.9	90
40	Superelastic response of a single crystalline FeMnAlNi shape memory alloy under tension and compression. <i>Acta Materialia</i> , 2015, 89, 374-383.	7.9	89
41	Relationship between crystallographic compatibility and thermal hysteresis in Ni-rich NiTiHf and NiTiZr high temperature shape memory alloys. <i>Acta Materialia</i> , 2016, 121, 374-383.	7.9	89
42	Recoverable stress-induced martensitic transformation in a ferromagnetic CoNiAl alloy. <i>Scripta Materialia</i> , 2003, 49, 831-836.	5.2	88
43	Role of starting texture and deformation modes on low-temperature shear formability and shear localization of Mgâ€“3Alâ€“1Zn alloy. <i>Acta Materialia</i> , 2015, 89, 408-422.	7.9	88
44	Consolidation of amorphous copper based powder by equal channel angular extrusion. <i>Journal of Non-Crystalline Solids</i> , 2003, 317, 144-151.	3.1	84
45	Characterization and modeling of the magnetic field-induced strain and work output in magnetic shape memory alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 312, 164-175.	2.3	83
46	Shape memory behavior and tensionâ€“compression asymmetry of a FeNiCoAlTa single-crystalline shape memory alloy. <i>Acta Materialia</i> , 2012, 60, 2186-2195.	7.9	83
47	Multi-objective Bayesian materials discovery: Application on the discovery of precipitation strengthened NiTi shape memory alloys through micromechanical modeling. <i>Materials and Design</i> , 2018, 160, 810-827.	7.0	83
48	Finite interface dissipation phase field modeling of Niâ€“Nb under additive manufacturing conditions. <i>Acta Materialia</i> , 2020, 185, 320-339.	7.9	83
49	The effect of training on two-way shape memory effect of binary NiTi and NiTi based ternary high temperature shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 560, 653-666.	5.6	82
50	Mechanical flow anisotropy in severely deformed pure titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 434, 294-302.	5.6	81
51	The effect of twinning and slip on the bauschinger effect of hadfield steel single crystals. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001, 32, 695-706.	2.2	79
52	DFT studies on structure, mechanics and phase behavior of magnetic shape memory alloys: Ni₂MnGa. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 1026-1035.	1.8	79
53	Laser Powder Bed Fusion of Defect-Free NiTi Shape Memory Alloy Parts with Superior Tensile Superelasticity. <i>Acta Materialia</i> , 2022, 229, 117781.	7.9	79
54	The effect of severe marforming on shape memory characteristics of a Ti-rich NiTi alloy processed using equal channel angular extrusion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003, 34, 2527-2539.	2.2	78

#	ARTICLE	IF	CITATIONS
55	On the mechanical response and microstructure evolution of NiCoCr single crystalline medium entropy alloys. <i>Materials Research Letters</i> , 2018, 6, 442-449.	8.7	78
56	Controlling martensitic transformation characteristics in defect-free NiTi shape memory alloys fabricated using laser powder bed fusion and a process optimization framework. <i>Acta Materialia</i> , 2021, 215, 117017.	7.9	78
57	Flow stress anisotropy and Bauschinger effect in ultrafine grained copper. <i>Acta Materialia</i> , 2006, 54, 5477-5488.	7.9	77
58	Pseudoelasticity at elevated temperatures in [001] oriented Co ₄₉ Ni ₂₁ Ga ₃₀ single crystals under compression. <i>Scripta Materialia</i> , 2006, 55, 663-666.	5.2	77
59	Processing and characterization of porous Ti ₂ AlC with controlled porosity and pore size. <i>Acta Materialia</i> , 2012, 60, 6266-6277.	7.9	77
60	Stress-assisted reversible magnetic field-induced phase transformation in Ni ₂ MnGa magnetic shape memory alloys. <i>Scripta Materialia</i> , 2006, 55, 403-406.	5.2	76
61	Role of severe plastic deformation on the cyclic reversibility of a Ti _{50.3} Ni _{33.7} Pd ₁₆ high temperature shape memory alloy. <i>Acta Materialia</i> , 2010, 58, 6411-6420.	7.9	75
62	Size effects in the superelastic response of Ni ₅₄ Fe ₁₉ Ga ₂₇ shape memory alloy pillars with a two stage martensitic transformation. <i>Acta Materialia</i> , 2012, 60, 5670-5685.	7.9	75
63	On the printability and transformation behavior of nickel-titanium shape memory alloys fabricated using laser powder-bed fusion additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2018, 35, 672-680.	5.9	75
64	Compressive response of a single crystalline CoNiAl shape memory alloy. <i>Scripta Materialia</i> , 2004, 51, 261-266.	5.2	74
65	Effect of precipitation on the microstructure and the shape memory response of the Ni _{50.3} Ti _{29.7} Zr ₂₀ high temperature shape memory alloy. <i>Scripta Materialia</i> , 2013, 69, 354-357.	5.2	74
66	Tensile actuation response of additively manufactured nickel-titanium shape memory alloys. <i>Scripta Materialia</i> , 2018, 146, 164-168.	5.2	74
67	The deformation of low-stacking-fault-energy austenitic steels. <i>Jom</i> , 2002, 54, 31-37.	1.9	73
68	Plastic flow anisotropy of pure zirconium after severe plastic deformation at room temperature. <i>Acta Materialia</i> , 2009, 57, 4855-4865.	7.9	73
69	Effect of commercial purity levels on the mechanical properties of ultrafine-grained titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 2303-2308.	5.6	73
70	Anomalous work hardening behavior of Fe ₄₀ Mn ₄₀ Cr ₁₀ Co ₁₀ high entropy alloy single crystals deformed by twinning and slip. <i>Acta Materialia</i> , 2019, 181, 555-569.	7.9	72
71	Tensionâ€“compression asymmetry in severely deformed pure copper. <i>Acta Materialia</i> , 2007, 55, 4603-4613.	7.9	71
72	Multi-phase microstructure design of a low-alloy TRIP-assisted steel through a combined computational and experimental methodology. <i>Acta Materialia</i> , 2012, 60, 3022-3033.	7.9	71

#	ARTICLE	IF	CITATIONS
73	Deformation of FeNiCoTi shape memory single crystals. Scripta Materialia, 2001, 44, 779-784.	5.2	70
74	Effect of disperse Ti3N4 particles on the martensitic transformations in titanium nickelide single crystals. Physics of Metals and Metallography, 2008, 106, 577-589.	1.0	70
75	Improvement in the Shape Memory Response of Ti50.5Ni24.5Pd25 High-Temperature Shape Memory Alloy with Scandium Microalloying. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2485-2497.	2.2	70
76	Shape memory characteristics of Ti49.5Ni25Pd25Sc0.5 high-temperature shape memory alloy after severe plastic deformation. Acta Materialia, 2011, 59, 4747-4760.	7.9	70
77	EFFECT OF AGING ON THE MARTENSITIC TRANSFORMATION CHARACTERISTICS OF A Ni-RICH NiTiHf HIGH TEMPERATURE SHAPE MEMORY ALLOY. Functional Materials Letters, 2012, 05, 1250038.	1.2	69
78	Direct measurement of large reversible magnetic-field-induced strain in Ni-Co-Mn-In metamagnetic shape memory alloys. Acta Materialia, 2012, 60, 6883-6891.	7.9	69
79	On the low-cycle fatigue response of CoCrNiFeMn high entropy alloy with ultra-fine grain structure. Acta Materialia, 2021, 205, 116540.	7.9	69
80	Ultra-high temperature multi-component shape memory alloys. Scripta Materialia, 2019, 158, 83-87.	5.2	68
81	Expanding the Repertoire of Shape Memory Alloys. Science, 2010, 327, 1468-1469.	12.6	67
82	On the microstructural origins of martensitic transformation arrest in a NiCoMnIn magnetic shape memory alloy. Acta Materialia, 2018, 142, 95-106.	7.9	67
83	Effects of crystallographic orientation on the superelastic response of FeMnAlNi single crystals. Scripta Materialia, 2016, 116, 147-151.	5.2	66
84	Deformation twinning in difficult-to-work alloys during severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 243-247.	5.6	64
85	Influence of crystallographic compatibility on residual strain of TiNi based shape memory alloys during thermo-mechanical cycling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 574, 9-16.	5.6	63
86	Dynamic precipitation in Mg-3Al-1Zn alloy during different plastic deformation modes. Acta Materialia, 2016, 116, 1-13.	7.9	63
87	Numerical and experimental analysis of heat distribution in the laser powder bed fusion of Ti-6Al-4V. IJSE Transactions, 2019, 51, 136-152.	2.4	62
88	Microstructure and martensitic transformation characteristics of CoNiGa high temperature shape memory alloys. Acta Materialia, 2011, 59, 1168-1183.	7.9	61
89	Cyclic degradation in bamboo-like Fe-Mn-Al-Ni shape memory alloys - The role of grain orientation. Scripta Materialia, 2016, 114, 156-160.	5.2	61
90	Orientation dependence of twinning in single crystalline CoCrFeMnNi high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 705, 176-181.	5.6	61

#	ARTICLE	IF	CITATIONS
91	Effect of vanadium micro-alloying on the microstructural evolution and creep behavior of Al-Er-Sc-Zr-Si alloys. <i>Acta Materialia</i> , 2017, 124, 501-512.	7.9	61
92	Effect of severe ausforming via equal channel angular extrusion on the shape memory response of a NiTi alloy. <i>Journal of Nuclear Materials</i> , 2007, 361, 298-305.	2.7	59
93	Pseudoelasticity and Cyclic Stability in Co ₄₉ Ni ₂₁ Ga ₃₀ Shape-Memory Alloy Single Crystals at Ambient Temperature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 2026-2039.	2.2	58
94	High Strength and High Ductility of Ultrafine-Grained, Interstitial-Free Steel Produced by ECAE and Annealing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 1884-1894.	2.2	58
95	Corrosion fatigue behavior of a biocompatible ultrafine-grained niobium alloy in simulated body fluid. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 5, 181-192.	3.1	58
96	Effects of cyclic heat treatment and aging on superelasticity in oligocrystalline Fe-Mn-Al-Ni shape memory alloy wires. <i>Scripta Materialia</i> , 2017, 134, 66-70.	5.2	58
97	Hydroxyapatite production on ultrafine-grained pure titanium by micro-arc oxidation and hydrothermal treatment. <i>Surface and Coatings Technology</i> , 2011, 205, S537-S542.	4.8	57
98	Equal-channel angular sheet extrusion of interstitial-free (IF) steel: Microstructural evolution and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6573-6583.	5.6	57
99	Work output of the two-way shape memory effect in Ti _{50.5} Ni _{24.5} Pd ₂₅ high-temperature shape memory alloy. <i>Scripta Materialia</i> , 2011, 65, 903-906.	5.2	56
100	Effects of dynamic recrystallization and strain-induced dynamic precipitation on the corrosion behavior of partially recrystallized Mg-9Al-1Zn alloys. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 1016-1037.	11.9	56
101	Microstructure and mechanical properties of severely deformed powder processed Ti-6Al-4V using equal channel angular extrusion. <i>Scripta Materialia</i> , 2003, 49, 1021-1027.	5.2	55
102	On the fatigue behavior of ultrafine-grained interstitial-free steel. <i>International Journal of Materials Research</i> , 2006, 97, 1328-1336.	0.3	55
103	Tension/compression asymmetry of functional properties in [001]-oriented ferromagnetic NiFeGaCo single crystals. <i>Intermetallics</i> , 2010, 18, 2458-2463.	3.9	55
104	A Sensory Material Approach for Reducing Variability in Additively Manufactured Metal Parts. <i>Scientific Reports</i> , 2017, 7, 3604.	3.3	55
105	On the fatigue crack growth-microstructure relationship in ultrafine-grained interstitial-free steel. <i>Journal of Materials Science</i> , 2010, 45, 4813-4821.	3.7	54
106	Microstructural characterization and superelastic response of a Ni _{50.3} Ti _{29.7} Zr ₂₀ high-temperature shape memory alloy. <i>Scripta Materialia</i> , 2014, 81, 12-15.	5.2	54
107	Comparative analysis of the effects of severe plastic deformation and thermomechanical training on the functional stability of Ti _{50.5} Ni _{24.5} Pd ₂₅ high-temperature shape memory alloy. <i>Scripta Materialia</i> , 2011, 64, 315-318.	5.2	53
108	Cyclic degradation mechanisms in aged FeNiCoAlTa shape memory single crystals. <i>Acta Materialia</i> , 2014, 79, 126-137.	7.9	53

#	ARTICLE	IF	CITATIONS
109	Effect of grain size on the superelastic response of a FeMnAlNi polycrystalline shape memory alloy. Scripta Materialia, 2016, 125, 68-72.	5.2	53
110	Strain-temperature behavior of NiTiCu shape memory single crystals. Acta Materialia, 2001, 49, 3621-3634.	7.9	52
111	Microstructure-mechanical property relationships in ultrafine-grained NbZr. Acta Materialia, 2007, 55, 6596-6605.	7.9	52
112	Thermoelastic martensitic transformations in single crystals with disperse particles. Russian Physics Journal, 2012, 54, 937-950.	0.4	52
113	On the effect of titanium on quenching sensitivity and pseudoelastic response in Fe-Mn-Al-Ni-base shape memory alloy. Scripta Materialia, 2017, 126, 20-23.	5.2	51
114	The effects of wide range of compositional changes on the martensitic transformation characteristics of NiTiHf shape memory alloys. Scripta Materialia, 2019, 161, 78-83.	5.2	51
115	On The Deformation Mechanisms in Single Crystal Hadfield Manganese Steels. Scripta Materialia, 1998, 38, 1009-1015.	5.2	49
116	On the Microstructural Stability of Ultrafine-Grained Interstitial-Free Steel under Cyclic Loading. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 1946-1955.	2.2	49
117	High-temperature superelasticity in CoNiGa, CoNiAl, NiFeGa, and TiNi monocrystals. Russian Physics Journal, 2008, 51, 1016-1036.	0.4	49
118	Effect of niobium addition on the martensitic transformation and magnetocaloric effect in low hysteresis NiCoMnSn magnetic shape memory alloys. Applied Physics Letters, 2014, 105, .	3.3	49
119	Interplay between the effects of deformation mechanisms and dynamic recrystallization on the failure of Mg-3Al-1Zn. Acta Materialia, 2019, 168, 448-472.	7.9	49
120	Enhanced mechanical properties and corrosion resistance of a fine-grained Mg-9Al-1Zn alloy: the role of bimodal grain structure and $\text{Mg}_2\text{Mg}_3\text{Al}_2$ precipitates. Materialia, 2020, 13, 100840.	2.7	49
121	Work production using the two-way shape memory effect in NiTi and a Ni-rich NiTiHf high-temperature shape memory alloy. Smart Materials and Structures, 2015, 24, 125023.	3.5	48
122	Effects of upper cycle temperature on the actuation fatigue response of NiTiHf high temperature shape memory alloys. Acta Materialia, 2017, 138, 185-197.	7.9	48
123	Microstructural refinement and deformation twinning during severe plastic deformation of 316L stainless steel at high temperatures. Journal of Materials Research, 2004, 19, 2268-2278.	2.6	47
124	Shape memory and pseudoelasticity response of NiMnCoIn magnetic shape memory alloy single crystals. Scripta Materialia, 2008, 58, 815-818.	5.2	47
125	Monitoring the fatigue-induced damage evolution in ultrafine-grained interstitial-free steel utilizing digital image correlation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 517, 225-234.	5.6	47
126	Reduction in tension-compression asymmetry via grain refinement and texture design in Mg-3Al-1Zn sheets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 610, 220-227.	5.6	47

#	ARTICLE	IF	CITATIONS
127	Two way shape memory effect in NiTiHf high temperature shape memory alloy tubes. <i>Acta Materialia</i> , 2019, 163, 1-13.	7.9	47
128	The role of heat treatment on the cyclic stress-strain response of ultrafine-grained interstitial-free steel. <i>International Journal of Fatigue</i> , 2008, 30, 426-436.	5.7	46
129	Direct measure of giant magnetocaloric entropy contributions in Ni-Mn-In. <i>Acta Materialia</i> , 2016, 105, 176-181.	7.9	46
130	Reversible Martensitic Transformation under Low Magnetic Fields in Magnetic Shape Memory Alloys. <i>Scientific Reports</i> , 2017, 7, 40434.	3.3	46
131	Effect of severe plastic deformation on tensile properties and impact toughness of two-phase Zn-40Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 490, 403-410.	5.6	45
132	Multiple ferroic glasses via ordering. <i>Acta Materialia</i> , 2015, 101, 107-115.	7.9	45
133	Determining recoverable and irrecoverable contributions to accumulated strain in a NiTiPd high-temperature shape memory alloy during thermomechanical cycling. <i>Scripta Materialia</i> , 2011, 65, 123-126.	5.2	44
134	Magnetic field-induced martensitic phase transformation in magnetic shape memory alloys: Modeling and experiments. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 69, 33-66.	4.8	44
135	Role of microstructure on the actuation fatigue performance of Ni-Rich NiTiHf high temperature shape memory alloys. <i>Acta Materialia</i> , 2019, 175, 107-120.	7.9	44
136	The role of coherent precipitates in martensitic transformations in single crystal and polycrystalline Ti-50.8at%Ni. <i>Scripta Materialia</i> , 1998, 39, 699-705.	5.2	43
137	Experimental investigation of simultaneous creep, plasticity and transformation of Ti50.5Pd30Ni19.5 high temperature shape memory alloy during cyclic actuation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 530, 117-127.	5.6	43
138	Nanoparticle consolidation using equal channel angular extrusion at room temperature. <i>Journal of Materials Science</i> , 2007, 42, 1561-1576.	3.7	42
139	Hierarchical evolution and thermal stability of microstructure with deformation twins in 316 stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 694, 121-131.	5.6	42
140	Fracture toughness of NiTi-Towards establishing standard test methods for phase transforming materials. <i>Acta Materialia</i> , 2019, 162, 226-238.	7.9	42
141	High-temperature in-situ microscopy during stress-induced phase transformations in Co49Ni21Ga30 shape memory alloy single crystals. <i>International Journal of Materials Research</i> , 2010, 101, 1-11.	0.3	41
142	Role of applied stress level on the actuation fatigue behavior of NiTiHf high temperature shape memory alloys. <i>Acta Materialia</i> , 2018, 153, 156-168.	7.9	41
143	Uncertainty Propagation Analysis of Computational Models in Laser Powder Bed Fusion Additive Manufacturing Using Polynomial Chaos Expansions. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	2.2	41
144	Significant disparity of non-basal dislocation activities in hot-rolled highly-textured Mg and Mg-3Al-1Zn alloy under tension. <i>Acta Materialia</i> , 2021, 207, 116691.	7.9	41

#	ARTICLE	IF	CITATIONS
145	Effect of aging on the superelastic response of a single crystalline FeNiCoAlTa shape memory alloy. Scripta Materialia, 2012, 67, 475-478.	5.2	40
146	Effect of grain constraint on the field requirements for magnetocaloric effect in Ni45Co5Mn40Sn10 melt-spun ribbons. Journal of Applied Physics, 2016, 120, .	2.5	40
147	Compressive performance and crack propagation in Al alloy/Ti2AlC composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 672, 247-256.	5.6	40
148	Towards designing anisotropy for ductility enhancement: A theory-driven investigation in Mg-alloys. Acta Materialia, 2017, 131, 349-362.	7.9	40
149	Cyclic stress-strain response and low-cycle fatigue damage in ultrafine grained copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 457-461.	5.6	39
150	Role of nano-precipitation on the microstructure and shape memory characteristics of a new Ni50.3Ti34.7Zr15 shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 655, 193-203.	5.6	39
151	Superelastic response of the FeNiCoAlTi single crystals under tension and compression. Scripta Materialia, 2015, 101, 1-4.	5.2	38
152	Stability of a Ni-rich Ni-Ti-Zr high temperature shape memory alloy upon low temperature aging and thermal cycling. Scripta Materialia, 2016, 124, 47-50.	5.2	37
153	Deformation of NiTiCu shape memory single crystals in compression. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 477-489.	2.2	36
154	The effect of temperature and extrusion speed on the consolidation of zirconium-based metallic glass powder using equal-channel angular extrusion. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 247-256.	2.2	36
155	Shape memory effect and high-temperature superelasticity in high-strength single crystals. Journal of Alloys and Compounds, 2013, 577, S393-S398.	5.5	36
156	Microstructural design considerations in Fe-Mn-Al-Ni shape memory alloy wires: Effects of natural aging. Scripta Materialia, 2018, 142, 153-157.	5.2	36
157	Multivariate Calibration and Experimental Validation of a 3D Finite Element Thermal Model for Laser Powder Bed Fusion Metal Additive Manufacturing. Integrating Materials and Manufacturing Innovation, 2018, 7, 116-135.	2.6	36
158	Effects of cold and warm rolling on the shape memory response of Ni50Ti30Hf20 high-temperature shape memory alloy. Acta Materialia, 2018, 157, 228-244.	7.9	36
159	Modelling the temperature and texture effects on the deformation mechanisms of magnesium alloy AZ31. International Journal of Mechanical Sciences, 2020, 182, 105727.	6.7	36
160	Fabrication and characterization of NiTi/Ti3SiC2 and NiTi/Ti2AlC composites. Journal of Alloys and Compounds, 2014, 610, 635-644.	5.5	35
161	A data-driven machine learning approach to predicting stacking faulting energy in austenitic steels. Journal of Materials Science, 2017, 52, 11048-11076.	3.7	35
162	The role of nitrogen on the deformation response of hadfield steel single crystals. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 1821-1831.	2.2	33

#	ARTICLE	IF	CITATIONS
163	On the deformation response and cyclic stability of Ni50Ti35Hf15 high temperature shape memory alloy wires. Scripta Materialia, 2017, 135, 92-96.	5.2	33
164	Orientation dependence of superelasticity in FeMnAlNi single crystals under compression. Scripta Materialia, 2019, 166, 48-52.	5.2	33
165	Effects of training on the thermomechanical behavior of NiTiHf and NiTiZr high temperature shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 794, 139857.	5.6	33
166	Superelastic cycling and room temperature recovery of Ti74Nb26 shape memory alloy. Acta Materialia, 2010, 58, 2216-2224.	7.9	32
167	Phase and morphology evolution in high-temperature Ti3SiC2â€“NiTi diffusion-bonded joints. Scripta Materialia, 2011, 65, 237-240.	5.2	32
168	H-Phase Precipitation and Martensitic Transformation in Ni-rich Niâ€“Tiâ€“Hf and Niâ€“Ti-Zr High-Temperature Shape Memory Alloys. Shape Memory and Superelasticity, 2018, 4, 85-92.	2.2	32
169	Effect of equal-channel angular extrusion on the mechanical and tribological properties of as-cast Znâ€“40Alâ€“2Cuâ€“2Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3480-3488.	5.6	30
170	CYCLIC DEFORMATION BEHAVIOR OF AGED FeNiCoAlTa SINGLE CRYSTALS. Functional Materials Letters, 2012, 05, 1250045.	1.2	30
171	Calorimetric and magnetic study for Ni50Mn36In14 and relative cooling power in paramagnetic inverse magnetocaloric systems. Journal of Applied Physics, 2014, 116, .	2.5	30
172	Interfacial study of NiTiâ€“Ti3SiC2 solid state diffusion bonded joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 622, 168-177.	5.6	30
173	Unusual reversible twinning modes and giant superelastic strains in FeNiCoAlNb single crystals. Scripta Materialia, 2016, 119, 43-46.	5.2	30
174	Twinning in [001]-oriented single crystals of CoCrFeMnNi high-entropy alloy at tensile deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 713, 253-259.	5.6	30
175	The role of grain size and distribution on the cyclic stability of titanium. Scripta Materialia, 2009, 60, 344-347.	5.2	29
176	Cyclic deformation and austenite stabilization in Co35Ni35Al30 single crystalline high-temperature shape memory alloys. Acta Materialia, 2009, 57, 6123-6134.	7.9	29
177	Common trends in texture evolution of ultra-fine-grained hcp materials during equal channel angular extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 503, 78-81.	5.6	29
178	Effect of internal oxidation on wear behavior of ultrafine-grained Nbâ€“Zr. Acta Materialia, 2011, 59, 7683-7694.	7.9	29
179	Effect of configurational order on the magnetic characteristics of Co-Ni-Ga ferromagnetic shape memory alloys. Physical Review B, 2011, 84, .	3.2	29
180	Microstructural refinement in an ultra-high strength martensitic steel via equal channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 725, 57-64.	5.6	29

#	ARTICLE	IF	CITATIONS
181	Modelling dynamic recrystallisation in magnesium alloy AZ31. <i>International Journal of Plasticity</i> , 2021, 142, 102995.	8.8	29
182	The effect of electronic and magnetic valences on the martensitic transformation of CoNiGa shape memory alloys. <i>Acta Materialia</i> , 2012, 60, 3545-3558.	7.9	28
183	Low-Power Circuits and Energy Harvesting for Structural Health Monitoring of Bridges. <i>IEEE Sensors Journal</i> , 2013, 13, 709-722.	4.7	28
184	Two Types of Martensitic Phase Transformations in Magnetic Shape Memory Alloys by In-situ Nanoindentation Studies. <i>Advanced Materials</i> , 2014, 26, 3893-3898.	21.0	28
185	Bayesian Calibration and Uncertainty Quantification for a Physics-Based Precipitation Model of Nickel-Titanium Shape-Memory Alloys. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017, 139, .	2.2	28
186	Functionally Graded Materials through robotics-inspired path planning. <i>Materials and Design</i> , 2019, 182, 107975.	7.0	28
187	Effect of twinning on the orientation dependence of mechanical behaviour and fracture in single crystals of the equiatomic CoCrFeMnNi high-entropy alloy at 77K. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 784, 139315.	5.6	28
188	Formability of Ultrafine-Grained Interstitial-Free Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 4194-4206.	2.2	27
189	The shape-memory effect and superelasticity in single-crystal ferromagnetic alloy FeNiCoAlTi. <i>Technical Physics Letters</i> , 2014, 40, 747-750.	0.7	27
190	High-temperature superelasticity and competing microstructural mechanisms in Co ₄₉ Ni ₂₁ Ga ₃₀ shape memory alloy single crystals under tension. <i>Scripta Materialia</i> , 2010, 62, 368-371.	5.2	26
191	Impact Toughness of Ultrafine-Grained Interstitial-Free Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 4320-4330.	2.2	26
192	Development of a kinetic model for bainitic isothermal transformation in transformation-induced plasticity steels. <i>Acta Materialia</i> , 2013, 61, 2884-2894.	7.9	26
193	Simultaneous deformation twinning and martensitic transformation in CoCrFeMnNi high entropy alloy at high temperatures. <i>Scripta Materialia</i> , 2021, 202, 113995.	5.2	26
194	Stress-strain-temperature behaviour of [001] single crystals of Co ₄₉ Ni ₂₁ Ga ₃₀ ferromagnetic shape memory alloy under compression. <i>Philosophical Magazine</i> , 2007, 87, 2313-2322.	1.6	25
195	Phase constitution effect on the ductility of low alloy multiphase transformation induced plasticity steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 569, 137-143.	5.6	25
196	Current-Activated, Pressure-Assisted Infiltration: A Novel, Versatile Route for Producing Interpenetrating Ceramic-Metal Composites. <i>Materials Research Letters</i> , 2014, 2, 124-130.	8.7	25
197	Orientalional dependence of shape memory effects and superelasticity in CoNiGa, NiMnGa, CoNiAl, FeNiCoTi, and TiNi single crystals. <i>Russian Physics Journal</i> , 2004, 47, 893-911.	0.4	24
198	Improvement of formability of ultrafine-grained materials by post-SPD annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 619, 119-128.	5.6	24

#	ARTICLE	IF	CITATIONS
199	Mechanical properties and microstructure of removable partial denture clasps manufactured using selective laser melting. <i>Additive Manufacturing</i> , 2015, 8, 117-123.	3.0	24
200	High-Performance Metal/Carbide Composites with Far-From-Equilibrium Compositions and Controlled Microstructures. <i>Scientific Reports</i> , 2016, 6, 35523.	3.3	24
201	Atomic order and martensitic transformation entropy change in Ni-Co-Mn In metamagnetic shape memory alloys. <i>Scripta Materialia</i> , 2016, 110, 61-64.	5.2	24
202	Glassy Phonon Heralds a Strain Glass State in a Shape Memory Alloy. <i>Physical Review Letters</i> , 2018, 120, 245701.	7.8	24
203	Enhancement in mechanical behavior and wear resistance of severe plastically deformed two-phase Zn-Al alloys. <i>International Journal of Materials Research</i> , 2007, 98, 332-338.	0.3	23
204	Consolidation of blended powders by severe plastic deformation to form amorphous metal matrix composites. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 185-193.	3.1	23
205	Improvement of the fatigue performance of an ultrafine-grained Nb-Zr alloy by nano-sized precipitates formed by internal oxidation. <i>Scripta Materialia</i> , 2008, 58, 571-574.	5.2	23
206	Orientation and temperature dependence of superelasticity caused by reversible $\beta_1 \rightarrow \beta_2$ martensitic transformations in FeNiCoAlTa single crystals. <i>Technical Physics Letters</i> , 2011, 37, 487-490.	0.7	23
207	Influence of tantalum additions on the microstructure and shape memory response of Ti 50.5 Ni 24.5 Pd 25 high-temperature shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 613, 250-258.	5.6	23
208	The effects of severe plastic deformation on the mechanical and corrosion characteristics of a bioresorbable Mg-ZKQX6000 alloy. <i>Materials Science and Engineering C</i> , 2020, 115, 111130.	7.3	23
209	Data-driven shape memory alloy discovery using Artificial Intelligence Materials Selection (AIMS) framework. <i>Acta Materialia</i> , 2022, 228, 117751.	7.9	23
210	Thermodynamic analysis of two-stage heat treatment in TRIP steels. <i>Acta Materialia</i> , 2012, 60, 6120-6130.	7.9	22
211	Accessibility investigation of large magnetic entropy change in $\text{CoMn}_{1-x}\text{Fe}_x\text{Ge}$. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	22
212	Effects of composition on the mechanical properties and negative thermal expansion in martensitic TiNb alloys. <i>Scripta Materialia</i> , 2020, 178, 351-355.	5.2	22
213	Activation and suppression of ϵ -dislocations in a textured Mg-3Al-1Zn alloy. <i>Scripta Materialia</i> , 2020, 179, 49-54.	5.2	22
214	Severe plastic deformation of Ti74Nb26 shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7628-7635.	5.6	21
215	Phase transformations in sputtered Ni-Co-Ga magnetic shape memory alloy thin films. <i>Thin Solid Films</i> , 2012, 520, 3433-3439.	1.8	21
216	High-field magneto-thermo-mechanical testing system for characterizing multiferroic bulk alloys. <i>Review of Scientific Instruments</i> , 2015, 86, 113902.	1.3	21

#	ARTICLE	IF	CITATIONS
217	Strain glass state in Ni-rich Ni-Ti-Zr shape memory alloys. <i>Acta Materialia</i> , 2021, 218, 117232.	7.9	21
218	Orientation dependence and tension/compression asymmetry of shape memory effect and superelasticity in ferromagnetic Co ₄₀ Ni ₃₃ Al ₂₇ , Co ₄₉ Ni ₂₁ Ga ₃₀ and Ni ₅₄ Fe ₁₉ Ga ₂₇ single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 481-482, 95-100.	5.6	20
219	High school students' understanding of projectile motion concepts. <i>Educational Research and Evaluation</i> , 2009, 15, 203-222.	1.6	20
220	MOLECULAR DYNAMICS STUDY OF THE COALESCENCE OF EQUAL AND UNEQUAL SIZED Cu NANOPARTICLES. <i>International Journal of Modern Physics C</i> , 2009, 20, 179-196.	1.7	20
221	Corrosion behavior of Mg-Zn-Zr-RE alloys under physiological environment â€” Impact on mechanical integrity and biocompatibility. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 1542-1572.	11.9	20
222	One-way shape memory effect due to stress-assisted magnetic field-induced phase transformation in Ni ₂ MnGa magnetic shape memory alloys. <i>Scripta Materialia</i> , 2006, 55, 803-806.	5.2	19
223	Thermo-mechanical Response and Damping Behavior of Shape Memory Alloyâ€”MAX Phase Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 2646-2658.	2.2	19
224	Lattice vibrations boost demagnetization entropy in a shape-memory alloy. <i>Physical Review B</i> , 2015, 92, .	3.2	19
225	Slip and Twinning in the [1 1̄ 0]-Oriented Single Crystals of a High-Entropy Alloy. <i>Russian Physics Journal</i> , 2016, 59, 1242-1250.	0.4	19
226	Embedded magnetic shape memory sensory particles in lightweight composites for crack detection. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 751, 201-213.	5.6	19
227	Exploring performance limits of a new martensitic high strength steel by ausforming via equal channel angular pressing. <i>Scripta Materialia</i> , 2020, 184, 63-69.	5.2	19
228	Constriction energy in the presence of a solute field. <i>Journal of Applied Physics</i> , 2000, 87, 2194-2203.	2.5	18
229	Mechanical Properties of Nanocrystalline and Ultrafineâ€”Grained Nickel with Bimodal Microstructure. <i>Advanced Engineering Materials</i> , 2014, 16, 1323-1339.	3.5	18
230	Active Cooling of a Microvascular Shape Memory Alloyâ€”Polymer Matrix Composite Hybrid Material. <i>Advanced Engineering Materials</i> , 2016, 18, 1145-1153.	3.5	18
231	Martensitic transformation and magnetocaloric properties of NiCoMnSn magnetic shape memory alloys. <i>Intermetallics</i> , 2019, 106, 65-70.	3.9	18
232	NiTiHf shape memory alloys as phase change thermal storage materials. <i>Acta Materialia</i> , 2021, 218, 117175.	7.9	18
233	Thermally and stress-induced martensitic transformation in Coâ€”Niâ€”Al ferromagnetic shape memory alloy single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 438-440, 875-878.	5.6	17
234	Crystallization and high temperature shape memory behavior of sputter-deposited NiMnCoIn thin films. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	17

#	ARTICLE	IF	CITATIONS
235	Magnetic response of porous NiCoMnSn metamagnetic shape memory alloys fabricated using solid-state replication. <i>Scripta Materialia</i> , 2012, 67, 116-119.	5.2	17
236	The effect of dynamic aging on the cyclic stability of Cu 73 Al 16 Mn 11 shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 701, 352-358.	5.6	17
237	Relative cooling power enhancement by tuning magneto-structural stability in Ni-Mn-In Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2018, 744, 785-790.	5.5	17
238	Cyclic stability of ultrafine-grained interstitial-free steel at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 503, 160-162.	5.6	16
239	Mechanical and shape memory properties of Ni ₄₃ Co ₇ Mn ₃₉ Sn ₁₁ alloy compacts fabricated by pressureless sintering. <i>Scripta Materialia</i> , 2010, 63, 1236-1239.	5.2	16
240	Thermoelastic ϵ^f -martensitic transformations in FeNiCoAlTa aging single crystals. <i>Russian Physics Journal</i> , 2011, 53, 1103-1106.	0.4	16
241	Orientation Dependence of the Elastocaloric Effect in Ni ₅₄ Fe ₁₉ Ga ₂₇ Ferromagnetic Shape Memory Alloy. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700437.	1.5	16
242	Stable crack growth in NiTi shape memory alloys: 3D finite element modeling and experimental validation. <i>Smart Materials and Structures</i> , 2019, 28, 064001.	3.5	16
243	Competing Interactions between Mesoscale Length-Scales, Order-Disorder, and Martensitic Transformation in Ferromagnetic Shape Memory Alloys. <i>Acta Materialia</i> , 2021, 206, 116616.	7.9	16
244	Microstructural stability of ultrafine-grained niobium-zirconium alloy at elevated temperatures. <i>Journal of Alloys and Compounds</i> , 2012, 517, 61-68.	5.5	15
245	Temperature-dependent thermal properties of a shape memory alloy/MAX phase composite: Experiments and modeling. <i>Acta Materialia</i> , 2014, 68, 267-278.	7.9	15
246	Design, fabrication, and testing of a multiple-actuation shape memory alloy pipe coupler. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1165-1182.	2.5	15
247	Design of alumina-forming austenitic stainless steel using genetic algorithms. <i>Materials and Design</i> , 2020, 186, 108198.	7.0	15
248	Microstructural Evolution and Mechanical Response of Equal-Channel Angular Extrusion-Processed Al-40Zn-2Cu Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 2772-2783.	2.2	14
249	Shape Memory effect and Superelasticity in the [001] Single crystals of a FeNiCoAlTa Alloy with ϵ^f -Thermoelastic Martensitic Transformations. <i>Russian Physics Journal</i> , 2013, 56, 920-929.	0.4	14
250	A unified description of mechanical and actuation fatigue crack growth in shape memory alloys. <i>Acta Materialia</i> , 2021, 217, 117155.	7.9	14
251	Compositional and microstructural sensitivity of the actuation fatigue response in NiTiHf high temperature shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 838, 142786.	5.6	14
252	Flow response of a severe plastically deformed two-phase zinc-aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 518-525.	5.6	13

#	ARTICLE	IF	CITATIONS
253	Influence of grain boundary on pseudoelasticity in highly-oriented polycrystalline Ni ₅₂ Fe ₁₇ Ga ₂₇ Co ₄ ferromagnetic shape memory alloy. <i>Materials Letters</i> , 2014, 114, 11-14.	2.6	13
254	Effect of Thermal Treatments on Ni-Mn-Ga and Ni-Rich Ni-Ti-Hf/Zr High-Temperature Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2015, 1, 418-428.	2.2	13
255	Impact of cycle-hysteresis interactions on the performance of giant magnetocaloric effect refrigerants. <i>Materials Research Express</i> , 2016, 3, 074001.	1.6	13
256	Equal channel angular extrusion for bulk processing of Fe-Co ₂ V soft magnetic alloys, part I: Processing and mechanical properties. <i>Journal of Materials Research</i> , 2018, 33, 2168-2175.	2.6	13
257	Stress-state effects on the stress-induced martensitic transformation of carburized 4320 steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1998, 29, 427-437.	2.2	12
258	Magneto-microstructural coupling during stress-induced phase transformation in Co ₄₉ Ni ₂₁ Ga ₃₀ ferromagnetic shape memory alloy single crystals. <i>Journal of Materials Science</i> , 2008, 43, 6890-6901.	3.7	12
259	On the cyclic stability of nanocrystalline copper obtained by powder consolidation at room temperature. <i>Scripta Materialia</i> , 2008, 58, 307-310.	5.2	12
260	Shape Memory Response in Ni ₄₀ Co ₁₀ Mn ₃₃ Al ₁₇ Polycrystalline Alloy. <i>Materials Transactions</i> , 2010, 51, 525-528.		12
261	Stress-induced martensite to austenite phase transformation in Ni ₂ MnGa magnetic shape memory alloys. <i>Smart Materials and Structures</i> , 2012, 21, 045011.	3.5	12
262	Magnetic field induced phase transformation in polycrystalline NiCoMnAl thin films. <i>Applied Physics Letters</i> , 2013, 103, 132404.	3.3	12
263	Structure and growth of core-shell nanoprecipitates in Al-Er-Sc-Zr-V-Si high-temperature alloys. <i>Journal of Materials Science</i> , 2019, 54, 1857-1871.	3.7	12
264	Martensitic Transformation in $\langle \text{Fe} \rangle$. <i>Physical Review Letters</i> , 2021, 127, 115704.		12
265	The effects of cold rolling and the subsequent heat treatments on the shape memory and the superelasticity characteristics of Cu ₇₃ Al ₁₆ Mn ₁₁ shape memory alloy. <i>Smart Materials and Structures</i> , 2018, 27, 015028.	3.5	11
266	Effect of Temperature on the Fracture Toughness of a NiTiHf High Temperature Shape Memory Alloy. <i>Shape Memory and Superelasticity</i> , 2019, 5, 362-373.	2.2	11
267	On the role of the cooling rate and crystallographic orientation on the shape memory properties of CoNiAl single crystals under compression. <i>Smart Materials and Structures</i> , 2007, 16, 1006-1015.	3.5	10
268	Effect of orientation on the high-temperature superelasticity in Co ₄₉ Ni ₂₁ Ga ₃₀ single crystals. <i>Technical Physics Letters</i> , 2009, 35, 186-189.	0.7	10
269	Design of shape memory alloy pipe couplers: modeling and experiments. , 2012, , .		10
270	On the fast kinetics of B ₂ -L ₂₁ ordering in Ni-Co-Mn-In metamagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2019, 781, 479-489.	5.5	10

#	ARTICLE	IF	CITATIONS
271	Evolution of anisotropic and negative thermal expansion in rolled equiatomic nickel-titanium martensite. Scripta Materialia, 2020, 186, 142-146.	5.2	10
272	Half metallicity in Cr substituted Fe ₂ TiSn. Scientific Reports, 2021, 11, 524.	3.3	10
273	Actuation fatigue performance of NiTiZr and comparison to NiTiHf high temperature shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 829, 142154.	5.6	10
274	On the Cyclic Stability and Fatigue Performance of Ultrafine-Grained Interstitial-Free Steel under Mean Stress. Key Engineering Materials, 2008, 378-379, 39-52.	0.4	9
275	Orientation dependence of superelasticity in ferromagnetic single crystals Co ₄₉ Ni ₂₁ Ga ₃₀ . Physics of Metals and Metallography, 2010, 110, 78-90.	1.0	9
276	Superelastic memory effect in Ti ₇₄ Nb ₂₆ shape memory alloy. Scripta Materialia, 2010, 63, 265-268.	5.2	9
277	Tension - Compression Asymmetry in Co ₄₉ Ni ₂₁ Ga ₃₀ High-Temperature Shape Memory Alloy Single Crystals. Materials Science Forum, 2013, 738-739, 82-86.	0.3	9
278	Shape Memory Effect and Superelasticity in Single Crystals of High-Strength Ferromagnetic Alloys. Advanced Materials Research, 2014, 1013, 15-22.	0.3	9
279	Modeling of the ECAP Induced Strain Hardening Behavior in FCC Metals. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 5453-5474.	2.2	9
280	An efficient framework for printability assessment in Laser Powder Bed Fusion metal additive manufacturing. Additive Manufacturing, 2021, 46, 102018.	3.0	9
281	High-temperature superelasticity and the shape-memory effect in [001] Co-Ni-Al single crystals. Physics of Metals and Metallography, 2009, 107, 194-205.	1.0	8
282	Publisher's Note: Long-Term Oxidation of Ti ₂ AlC in Air and Water Vapor at 1000â€“1300Â°C Temperature Range [i]. Electrochem. Soc. [i], 159, C90 (2012)]. Journal of the Electrochemical Society, 2012, 159, S9-S9.	2.9	8
283	Cytocompatibility evaluation of Ni-Mn-S metaâ€magnetic shape memory alloys for biomedical applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 853-863.	3.4	8
284	Mechanisms of plastic deformation in [111]-oriented single crystals of FeNiMnCrCo high entropy alloy. AIP Conference Proceedings, 2016, , .	0.4	8
285	Predictive Modeling of the Constitutive Response of Precipitation Hardened Ni-Rich NiTi. Shape Memory and Superelasticity, 2017, 3, 9-23.	2.2	8
286	Evolution of mechanical behavior of magnesium alloy infiltrated 3D-printed CoCr scaffolds under corrosion in simulated body fluid. Materials Science and Engineering C, 2019, 105, 109747.	7.3	8
287	Strength and ductility of powder consolidated ultrafine-grain tantalum. International Journal of Refractory Metals and Hard Materials, 2019, 80, 73-84.	3.8	8
288	Effects of composition and crystallographic ordering on the ferromagnetic transition in Ni Co Mn magnetic shape memory alloys. Acta Materialia, 2019, 166, 630-637.	7.9	8

#	ARTICLE	IF	CITATIONS
289	Tube equal channel angular extrusion (tECAE) of Mg ³ Al ¹ Zn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 814, 141236.	5.6	8
290	Review: additive manufacturing of pure tungsten and tungsten-based alloys. <i>Journal of Materials Science</i> , 2022, 57, 9769-9806.	3.7	8
291	Metamagnetic Shape Memory Effect in Porous Ni ₄₃ Co ₇ Mn ₃₉ Sn ₁₁ Alloy Compacts Fabricated by Pressureless Sintering. <i>Materials Transactions</i> , 2011, 52, 2270-2273.	1.2	7
292	Surface hardening of biocompatible ultrafine-grained niobium zirconium alloy by two-stage oxidation treatment. <i>Journal of Materials Science</i> , 2013, 48, 4549-4556.	3.7	7
293	Equal channel angular extrusion for bulk processing of Fe ² Co ² V soft magnetic alloys, part II: Texture analysis and magnetic properties. <i>Journal of Materials Research</i> , 2018, 33, 2176-2188.	2.6	7
294	Two-way shape memory effect in stress-induced martensite aged Ni _{50.3} Ti _{32.2} Hf _{17.5} alloy. <i>Materials Letters</i> , 2020, 268, 127589.	2.6	7
295	Actuation-Induced stable crack growth in near-equiatomic nickel-titanium shape memory alloys: Experimental and numerical analysis. <i>International Journal of Solids and Structures</i> , 2021, 221, 165-179.	2.7	7
296	The effect of stress-induced martensite aging in tension and compression on B ² B ¹⁹ martensitic transformation in Ni _{50.3} Ti _{32.2} Hf _{17.5} high-temperature shape memory alloy. <i>Smart Materials and Structures</i> , 2021, 30, 025039.	3.5	7
297	Laser-based additive manufacturing of a binary Ni-5 wt.%Nb alloy. <i>Journal of Manufacturing Processes</i> , 2021, 62, 720-728.	5.9	7
298	Effect of heat treatments on the microstructure and mechanical properties of an ultra-high strength martensitic steel fabricated via laser powder bed fusion additive manufacturing. <i>Additive Manufacturing</i> , 2021, 47, 102255.	3.0	7
299	Effects of microstructure and composition on constitutive response of high temperature shape memory alloys: Micromechanical modeling using 3-D reconstructions with experimental validation. <i>Acta Materialia</i> , 2022, 232, 117929.	7.9	7
300	Deformation mechanisms and strain hardening of Hadfield-steel single crystals alloyed with aluminum. <i>Doklady Physics</i> , 2002, 47, 515-517.	0.7	6
301	A Preisach-Based Nonequilibrium Methodology for Simulating Performance of Hysteretic Magnetic Refrigeration Cycles. <i>Jom</i> , 2015, 67, 2123-2132.	1.9	6
302	First-Principles Characterization of Equilibrium Vacancy Concentration in Metamagnetic Shape Memory Alloys: An Example of Ni ₂ MnGa. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700523.	1.5	6
303	Experimental observations of ϵ -reversible transformation toughening. <i>Scripta Materialia</i> , 2021, 191, 81-85.	5.2	6
304	Effect of Specimen Thickness on the Fracture Toughness of a NiTi Shape Memory Alloy. <i>Shape Memory and Superelasticity</i> , 2021, 7, 90-100.	2.2	6
305	A printability assessment framework for fabricating low variability nickel-niobium parts using laser powder bed fusion additive manufacturing. <i>Rapid Prototyping Journal</i> , 2021, 27, 1737-1748.	3.2	6
306	Part I.: Friction stir welding of equiatomic nickel titanium shape memory alloy ϵ microstructure, mechanical and corrosion behavior. <i>Journal of Advanced Joining Processes</i> , 2021, 4, 100071.	2.7	6

#	ARTICLE	IF	CITATIONS
307	The effect of twinning and slip on the baushinger effect of hadfield steel single crystals. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 695-706.	2.2	5
308	The shape memory effect and superelasticity in nickel-titanium single crystals aged under applied stress. European Physical Journal Special Topics, 2003, 112, 799-802.	0.2	5
309	Plastic deformation of nitrogen-containing austenitic stainless steel single crystals with low stacking fault energy. European Physical Journal Special Topics, 2004, 115, 223-230.	0.2	5
310	Analysis of Magnetization as a Function of Temperature for CoMn1âˆ”x Fe x Ge. Journal of Superconductivity and Novel Magnetism, 2017, 30, 3587-3594.	1.8	5
311	Thermal, acoustic and magnetic noises emitted during martensitic transformation in single crystalline Ni45Co5Mn36.6In13.4 meta-magnetic shape memory alloy. Journal of Alloys and Compounds, 2019, 778, 669-680.	5.5	5
312	Characterization and Processing of High Temperature Shape Memory Alloys for Aerospace Applications. , 2019, , .		5
313	In-situ investigation of anisotropic crystalline and bulk negative thermal expansion in titanium alloys. Acta Materialia, 2021, 210, 116847.	7.9	5
314	Shape Memory Alloy-Enabled Expandable Space Habitatâ€™ Case Studies for Second CASMART Student Design Challenge. Shape Memory and Superelasticity, 2021, 7, 280-303.	2.2	5
315	Bayesian Calibration of Multiple Coupled Simulation Models for Metal Additive Manufacturing: A Bayesian Network Approach. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2022, 8, .	1.1	5
316	Thermal- and stress-induced martensitic transformations in [0 0 1]-oriented Ni44Fe19Ga27Co10 single crystals. Materials Letters, 2022, 310, 131477.	2.6	5
317	Hybrid microstructure-defect printability map in laser powder bed fusion additive manufacturing. Computational Materials Science, 2022, 209, 111401.	3.0	5
318	Role of thermally-stable deformation twins on the high-temperature mechanical response of an austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 845, 143199.	5.6	5
319	Influence of test procedures on the thermomechanical properties of a 55NiTi shape memory alloy. , 2008, , .		4
320	Effect of instruction based on conceptual change text on students' understanding of fluid pressure concept. International Journal of Innovation and Learning, 2011, 9, 21.	0.4	4
321	Computational thermodynamics of the CoNiGa high temperature shape memory alloy system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 45, 167-177.	1.6	4
322	Crack Growth Behavior in NiTi Shape Memory Alloys Under Mode-I Isothermal Loading: Effect of Stress State. , 2018, , .		4
323	Statistical modelling of microsegregation in laser powder-bed fusion. Philosophical Magazine Letters, 2020, 100, 271-282.	1.2	4
324	Observations on Stress-Induced Transformations in NiTi Alloys. Solid Mechanics and Its Applications, 2002, , 103-109.	0.2	4

#	ARTICLE	IF	CITATIONS
325	A differential evaporation model to predict chemistry change of additively manufactured metals. <i>Materials and Design</i> , 2022, 213, 110328.	7.0	4
326	Structure and substructure characterization of solution-treated Ni _{50.3} Ti _{29.7} Hf ₂₀ high-temperature shape memory alloy. <i>Scripta Materialia</i> , 2022, 219, 114888.	5.2	4
327	Twinning in Gadfield-steel single crystals. <i>Doklady Physics</i> , 2000, 45, 101-104.	0.7	3
328	Design and application of a mechanical load frame for in situ investigation of ferromagnetic shape memory alloys by magnetic force microscopy. <i>Review of Scientific Instruments</i> , 2008, 79, 113701.	1.3	3
329	Multi-Scale Modeling of Texture Evolution in Beryllium and Zirconium during Equal Channel Angular Extrusion. <i>Materials Science Forum</i> , 2009, 633-634, 483-510.	0.3	3
330	Applications of the directional solidification in magnetic shape memory alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 117, 012029.	0.6	3
331	Special Features of Functional Properties of Heterophase High-Strength Ni _{50.2} Ti _{37.3} Hf _{12.5} Polycrystals and Single Crystals. <i>Russian Physics Journal</i> , 2019, 62, 534-540.	0.4	3
332	Effects of Testing Parameters on the Fatigue Performance NiTiHf High Temperature Shape Memory Alloys. , 2019, , .		3
333	The Effects of Annealing After Equal Channel Angular Extrusion (ECAE) on Mechanical and Magnetic Properties of 49Fe-49Co-2V Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 4090-4099.	2.2	3
334	Effect of composition and phase diagram features on printability and microstructure in laser powder bed fusion: Development and comparison of processing maps across alloy systems. <i>Additive Manufacturing</i> , 2021, 47, 102258.	3.0	3
335	Fracture toughness of martensitic NiTiHf high-temperature shape memory alloy. , 2019, , .		3
336	Fracture resistance of shape memory alloys under thermomechanical loading. <i>Engineering Fracture Mechanics</i> , 2021, 258, 108059.	4.3	3
337	Progress in Consolidation of Amorphous Zr-based Powder into Bulk Metallic Glass. <i>Materials Research Society Symposia Proceedings</i> , 2002, 754, 1.	0.1	2
338	Features of thermoelastic martensitic transformations in [001] titanium-nickel single crystals. <i>Doklady Physics</i> , 2003, 48, 34-37.	0.7	2
339	The shape memory effect and superelasticity in Ti-Ni single crystals with one variant of dispersed particles. <i>European Physical Journal Special Topics</i> , 2004, 115, 21-28.	0.2	2
340	The Effect of Texture on the Fatigue Properties of Ultrafine-Grained Interstitial-Free Steel. <i>Materials Science Forum</i> , 2008, 584-586, 864-869.	0.3	2
341	Combined Effects of Grain Size Refinement and Dynamic Precipitation on Mechanical Properties of a New Magnesium Alloy. <i>Minerals, Metals and Materials Series</i> , 2017, , 43-51.	0.4	2
342	Integrated Health Monitoring of Transportation Structures with Magnetic Fe-SMA Wires. <i>MATEC Web of Conferences</i> , 2019, 271, 01008.	0.2	2

#	ARTICLE	IF	CITATIONS
343	Fabrication and characterization of aluminum - magnetic shape memory alloy composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 805, 140549.	5.6	2
344	A rigorous test and improvement of the Eagar-Tsai model for melt pool characteristics in laser powder bed fusion additive manufacturing. Additive Manufacturing, 2021, 47, 102300.	3.0	2
345	Aerospace, Energy Recovery, and Medical Applications: Shape Memory Alloy Case Studies for CASMART 3rd Student Design Challenge. Shape Memory and Superelasticity, 2022, 8, 150-167.	2.2	2
346	Shape memory effect and superelasticity in single-phase nickel titanium single crystals. European Physical Journal Special Topics, 2004, 115, 175-183.	0.2	1
347	The effect of aluminium on mechanical properties and deformation mechanisms of hadfield steel single crystals. European Physical Journal Special Topics, 2004, 115, 243-250.	0.2	1
348	High-temperature superelasticity during B2-L10 martensite transformations in Co40Ni33Al27 crystals. Technical Physics Letters, 2007, 33, 556-559.	0.7	1
349	Constitutive Modeling of Magnetic Field-Induced Phase Transformation in NiMnCoIn Magnetic Shape Memory Alloys. , 2009, , .		1
350	Using the education strategy with directing questions in the teaching period sample lesson: one dimensional motion. Procedia, Social and Behavioral Sciences, 2010, 2, 1083-1095.	0.5	1
351	Design of a Multiple-Actuation Shape Memory Alloy Pipe Coupler: Material Development and Characterization. , 2012, , .		1
352	Superelasticity in CoNiGa single crystals containing $\hat{\Gamma}^3$ -phase particles. Russian Physics Journal, 2012, 54, 1295-1297.	0.4	1
353	Prediction of Flow Stress Anisotropy and Tension Compression Asymmetry of Hot Rolled AZ31B Mg Alloy. Advanced Materials Research, 0, 911, 178-184.	0.3	1
354	Effect of Tensile Twinning on Low Temperature Shear Formability of Mg-3Al-1Zn Alloy. Advanced Materials Research, 0, 922, 108-113.	0.3	1
355	Computational Thermodynamics and Kinetics-Based ICME Framework for High-Temperature Shape Memory Alloys. Shape Memory and Superelasticity, 2015, 1, 429-449.	2.2	1
356	Probing Glassiness in Heuslers via Density Functional Theory Calculations. Springer Series in Materials Science, 2018, , 153-182.	0.6	1
357	Large Dimension and Low-Cost Fe-SMA Rods. MATEC Web of Conferences, 2019, 271, 01005.	0.2	1
358	Emergent properties in the natural composite Ni ₂ MnSb _{0.5} Al _{0.5} . Journal Physics D: Applied Physics, 2020, 53, 225302.	2.8	1
359	Nucleation site potency distributions in thermoelastic martensitic transformation in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Ni} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle \text{2} \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \text{MnSb} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle \text{0.5} \langle \text{mml:mi} \rangle \text{Al} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle \text{0.5} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mclose} \rangle$ particles. Physical Review Materials, 2021, 5, .	2.3	1
360	Consolidation of Cu and Amorphous ZR-Based Powders by Severe Plastic Deformation. , 2004, , 91-100.		1

#	ARTICLE	IF	CITATIONS
361	The Tunable Microstructure and Its Influence on the Giant Magnetocaloric Effect in Magnetic Shape Memory Alloys. , 2015, , 139-147.		1
362	Engineering thermal hysteresis of ferromagnetic shape memory alloy sensory particles. Scripta Materialia, 2022, 213, 114619.	5.2	1
363	The shape memory effect and superelasticity in [001]-oriented NiFeGaCo single crystals in dependence on cobalt concentration. AIP Conference Proceedings, 2022, , .	0.4	1
364	Extending the Fatigue Life of NiTiHf High Temperature Shape Memory Alloys through Partial Thermal Cycling. , 2022, , .		1
365	Orientation dependence of the shape memory effect and superelasticity in Co ₄₉ Ni ₂₁ Ga ₃₀ ferromagnetic single crystals. Doklady Physics, 2007, 52, 488-492.	0.7	0
366	Low-cycle superelastic response of a titanium-niobium shape memory alloy. Proceedings of SPIE, 2008, , .	0.8	0
367	Size Effect on the Phase Transformation of In-21at%Ti Nanowires. , 2009, , .		0
368	Constitutive Modeling of Magneto-Thermo-Mechanical Response of Field-Induced Phase Transformations in NiMnCoIn Magnetic Shape Memory Alloys. , 2010, , .		0
369	Constitutive modeling of magneto-mechanical coupling response of magnetic field-induced phase transformations in NiMnCoIn magnetic shape memory alloys. Proceedings of SPIE, 2010, , .	0.8	0
370	Phase transformation and creep behavior in Ti 50 Pd 30 Ni 20 high temperature shape memory alloy in compression. , 2010, , .		0
371	Ductility Enhancement in Mg Alloys by Anisotropy Engineering. Minerals, Metals and Materials Series, 2017, , 153-158.	0.4	0
372	Martensitic Transformations of Niâ€“Mnâ€“X Heusler Alloys with X=Ga, In and Sn. Minerals, Metals and Materials Series, 2018, , 185-188.	0.4	0
373	Micromechanical Modeling of Precipitation Hardened NiTiHf. Materials Science Forum, 0, 915, 147-156.	0.3	0
374	Inverse Optimization to Design Processing Paths to Tailor Formability of Mg Alloys. Minerals, Metals and Materials Series, 2019, , 239-246.	0.4	0
375	Special Issue Focus Mechanics and Physics of Active Materials and Systems. Shape Memory and Superelasticity, 2021, 7, 5-6.	2.2	0
376	A Differential Evaporation Model to Predict Chemistry Change of Additively Manufactured Metals. SSRN Electronic Journal, 0, , .	0.4	0
377	<i>In-Situ</i> Characterization of Stress-Induced Martensite and Related Magnetic Domain Structure in Ni-Fe-Ga Ferromagnetic Shape Memory Alloy Single Crystals. , 0, , 246-254.		0
378	The Role of Deformation Modes on Ductility and Dynamic Recrystallization Behavior of AZ31 Mg Alloy at Low Temperatures. , 2014, , 155-160.		0

#	ARTICLE	IF	CITATIONS
379	Alloy Design Strategies Through Computational Thermodynamics and Kinetics Approaches. , 2015, , 461-470.		0
380	Microstructural Design of Mg Alloys for Lightweight Structural Applications. , 2016, , 225-233.		0
381	Full-Field Micromechanics of Precipitated Shape Memory Alloys. , 2018, , 225-255.		0
382	The Effect of Subsequent Stress-Induced Martensite Aging on the Viscoelastic Properties of Aged NiTiHf Polycrystals. Metals, 2021, 11, 1890.	2.3	0