

Yinong Liu

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269
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5.94
L-index

#	Paper	IF	Citations
256	Electrochemical reduction of nano-SiO ₂ in hard carbon as anode material for lithium ion batteries. <i>Electrochemistry Communications</i> , 2008 , 10, 1876-1878	5.1	260
255	Lithium storage in hollow spherical ZnFe ₂ O ₄ as anode materials for lithium ion batteries. <i>Electrochemistry Communications</i> , 2010 , 12, 847-850	5.1	197
254	Two-way shape memory effect developed by martensite deformation in NiTi. <i>Acta Materialia</i> , 1998 , 47, 199-209	8.4	191
253	A transforming metal nanocomposite with large elastic strain, low modulus, and high strength. <i>Science</i> , 2013 , 339, 1191-4	33.3	190
252	Fatigue life of Ti ₅₀ B ₀ at.% Ni and Ti ₄₀ Ni ₁₀ Cu (at.%) shape memory alloy wires. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 273-275, 658-663	5.3	184
251	Ageing-induced two-stage R-phase transformation in Ti _{50.9} at.%Ni. <i>Acta Materialia</i> , 2004 , 52, 487-499	8.4	165
250	Thermal processing of polycrystalline NiTi shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 405, 34-49	5.3	163
249	Thermodynamic analysis of the martensitic transformation in NiTi. Effect of transformation cycling. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 2407-2413		156
248	Stabilisation of martensite due to shear deformation via variant reorientation in polycrystalline NiTi. <i>Acta Materialia</i> , 2000 , 48, 3489-3499	8.4	153
247	Factors influencing the development of two-way shape memory in NiTi. <i>Acta Metallurgica Et Materialia</i> , 1990 , 38, 1321-1326		146
246	Microstructural and compositional design of Ni-based single crystalline superalloys [A review]. <i>Journal of Alloys and Compounds</i> , 2018 , 743, 203-220	5.7	143
245	Criteria for pseudoelasticity in near-equiatomic NiTi shape memory alloys. <i>Acta Materialia</i> , 1997 , 45, 4438-4439	8.4	139
244	Effect of ageing treatment on the transformation behaviour of Ti _{50.9} at.% Ni alloy. <i>Acta Materialia</i> , 2008 , 56, 736-745	8.4	125
243	Apparent modulus of elasticity of near-equiatomic NiTi. <i>Journal of Alloys and Compounds</i> , 1998 , 270, 154-159	5.7	103
242	Thermodynamic analysis of the martensitic transformation in NiTi. Effect of heat treatment on transformation behaviour. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 2401-2406		100
241	Shear-like deformation associated with martensite reorientation in NiTi. <i>Scripta Materialia</i> , 1998 , 39, 1047-1055	5.6	96
240	Shear-like deformation associated with stress-induced martensitic transformation in NiTi. <i>Scripta Materialia</i> , 2004 , 50, 193-198	5.6	90

239	EBSD studies of the stress-induced B2B19 [?] martensitic transformation in NiTi tubes under uniaxial tension and compression. <i>Acta Materialia</i> , 2010 , 58, 3357-3366	8.4	87
238	Comparative study of deformation-induced martensite stabilisation via martensite reorientation and stress-induced martensitic transformation in NiTi. <i>Intermetallics</i> , 2004 , 12, 373-381	3.5	84
237	Phase selective route to Ni(OH) ₂ with enhanced supercapacitance: Performance dependent hydrolysis of Ni(Ac) ₂ at hydrothermal conditions. <i>Electrochimica Acta</i> , 2012 , 78, 1-10	6.7	77
236	Hydrophobic precipitation of carbonaceous spheres from fructose by a hydrothermal process. <i>Carbon</i> , 2012 , 50, 2155-2161	10.4	76
235	In-situ EBSD study of the active slip systems and lattice rotation behavior of surface grains in aluminum alloy during tensile deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 580, 114-124	5.3	73
234	On the deformation of the twinned domain in Niti shape memory alloys. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2000 , 80, 1935-1953		72
233	Functionally graded NiTi strips prepared by laser surface anneal. <i>Acta Materialia</i> , 2012 , 60, 1658-1668	8.4	69
232	Effect of Ag on the corrosion behavior of Ti-Ag alloys in artificial saliva solutions. <i>Dental Materials</i> , 2009 , 25, 672-7	5.7	69
231	Differences in the rheology and surface chemistry of kaolin clay slurries: The source of the variations. <i>Chemical Engineering Science</i> , 2009 , 64, 3817-3825	4.4	67
230	Gradient anneal of functionally graded NiTi. <i>Smart Materials and Structures</i> , 2008 , 17, 015031	3.4	65
229	The concern of elasticity in stress-induced martensitic transformation in NiTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 260, 240-245	5.3	61
228	Intrinsic thermal-mechanical behaviour associated with the stress-induced martensitic transformation in NiTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 167, 51-56	5.3	58
227	Three stage transformation behaviour in aged NiTi. <i>Scripta Metallurgica Et Materialia</i> , 1993 , 28, 669-672		56
226	Effect of deformation by stress-induced martensitic transformation on the transformation behaviour of NiTi. <i>Intermetallics</i> , 2000 , 8, 67-75	3.5	54
225	Effect of ageing treatment on the deformation behaviour of Ti ₅₀ 0.9 at.% Ni. <i>Acta Materialia</i> , 2009 , 57, 4773-4781	8.4	52
224	Functionally graded shape memory alloys: Design, fabrication and experimental evaluation. <i>Materials and Design</i> , 2017 , 124, 225-237	8.1	50
223	Effect of lattice misfit on the evolution of the dislocation structure in Ni-based single crystal superalloys during thermal exposure. <i>Acta Materialia</i> , 2016 , 120, 95-107	8.4	50
222	Preparation of nanoporous tin oxide by electrochemical anodization in alkaline electrolytes. <i>Electrochimica Acta</i> , 2011 , 56, 8797-8801	6.7	48

221	Synchrotron high energy X-ray diffraction study of microstructure evolution of severely cold drawn NiTi wire during annealing. <i>Acta Materialia</i> , 2016 , 115, 35-44	8.4	47
220	Effect of pseudoelastic cycling on the Clausius-Clapeyron relation for stress-induced martensitic transformation in NiTi. <i>Journal of Alloys and Compounds</i> , 2008 , 449, 82-87	5.7	47
219	Phase formation of NiTi via solid state reaction. <i>Physica Scripta</i> , 2007 , T129, 250-254	2.6	47
218	Modelling and experimental investigation of geometrically graded NiTi shape memory alloys. <i>Smart Materials and Structures</i> , 2013 , 22, 025030	3.4	46
217	Influence of heat treatment on the mechanical behaviour of a NiTi alloy.. <i>ISIJ International</i> , 1989 , 29, 417-422	1.7	45
216	MILD SOLUTION ROUTE TO MIXED-PHASE MnO ₂ WITH ENHANCED ELECTROCHEMICAL CAPACITANCE. <i>Functional Materials Letters</i> , 2011 , 04, 57-60	1.2	44
215	Supercapacitor and nanoscale research towards electrochemical energy storage. <i>International Journal of Smart and Nano Materials</i> , 2013 , 4, 2-26	3.6	43
214	Reaction forming of silicon carbide ceramic using phenolic resin derived porous carbon preform. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 2395-2402	6	42
213	Effect of low temperature ageing on the transformation behaviour of near-equiatomic NiTi. <i>Journal of Materials Science</i> , 1997 , 32, 5979-5984	4.3	41
212	Effect of ball milling and post-annealing on magnetic properties of Ni _{49.8} Mn _{28.5} Ga _{21.7} alloy powders. <i>Intermetallics</i> , 2008 , 16, 1279-1284	3.5	41
211	Strain dependence of pseudoelastic hysteresis of NiTi. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1999 , 30, 1275-1282	2.3	41
210	Self-assembled structures of CuO primary crystals synthesized from Cu(CH ₃ COO) ₂ NaOH aqueous systems. <i>CrystEngComm</i> , 2012 , 14, 5289	3.3	40
209	Thermodynamic analysis of ageing-induced multiple-stage transformation behaviour of NiTi. <i>Philosophical Magazine</i> , 2004 , 84, 2083-2102	1.6	40
208	Thermomechanical modelling of microstructurally graded shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 541, 407-414	5.7	39
207	Strain dependence of the Clausius-Clapeyron relation for thermoelastic martensitic transformations in NiTi. <i>Smart Materials and Structures</i> , 2007 , 16, S22-S27	3.4	39
206	Stress-induced FCC \leftrightarrow iHCP martensitic transformation in CoNi. <i>Journal of Alloys and Compounds</i> , 2004 , 368, 157-163	5.7	39
205	In situ synchrotron high-energy X-ray diffraction study of microscopic deformation behavior of a hard-soft dual phase composite containing phase transforming matrix. <i>Acta Materialia</i> , 2017 , 130, 297-309	8.4	36
204	Shearing mechanisms of stacking fault and anti-phase-boundary forming dislocation pairs in the β phase in Ni-based single crystal superalloy. <i>Journal of Alloys and Compounds</i> , 2017 , 724, 287-295	5.7	36

203	Metallurgical origin of the effect of Fe doping on the martensitic and magnetic transformation behaviours of Ni ₅₀ Mn _{40-x} Sn ₁₀ Fe _x magnetic shape memory alloys. <i>Intermetallics</i> , 2011 , 19, 445-452	3.5	36
202	Metamagnetic phase transformation in Mn ₅₀ Ni ₃₇ In ₁₀ Co ₃ polycrystalline alloy. <i>Applied Physics Letters</i> , 2011 , 98, 061904	3.4	35
201	Deformation-induced martensite stabilisation in [100] single-crystalline NiTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 612-618	5.3	35
200	Selective evolution of secondary η precipitation in a Ni-based single crystal superalloy both in the γ matrix and at the dislocation nodes. <i>Acta Materialia</i> , 2016 , 116, 343-353	8.4	35
199	Yield stress and zeta potential of washed and highly spherical oxide dispersions [Critical zeta potential and Hamaker constant. <i>Powder Technology</i> , 2010 , 198, 114-119	5.2	34
198	Hystoelastic deformation behaviour of geometrically graded NiTi shape memory alloys. <i>Materials & Design</i> , 2013 , 50, 879-885		32
197	Effect of Co addition on martensitic phase transformation and magnetic properties of Mn ₅₀ Ni _{40-x} In ₁₀ Co _x polycrystalline alloys. <i>Intermetallics</i> , 2011 , 19, 1839-1848	3.5	31
196	Thermally induced fcc \leftrightarrow hcp martensitic transformation in CoNi. <i>Acta Materialia</i> , 2005 , 53, 3625-3634	8.4	31
195	High coercivity SmCo ₅ synthesized by chemical reduction during mechanical alloying. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 116, L320-L324	2.8	31
194	Resistance welding of NiTi shape memory alloy tubes. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 1139-1145	5.3	30
193	Structural transition and atomic ordering of Ni _{49.8} Mn _{28.5} Ga _{21.7} ferromagnetic shape memory alloy powders prepared by ball milling. <i>Materials Letters</i> , 2008 , 62, 2851-2854	3.3	30
192	Effect of annealing on deformation-induced martensite stabilisation of NiTi. <i>Intermetallics</i> , 2008 , 16, 209-214	3.5	30
191	A unified thermodynamic theory for the formation of anodized metal oxide structures. <i>Electrochimica Acta</i> , 2012 , 62, 424-432	6.7	29
190	Restoration by rapid overheating of thermally stabilised martensite of NiTi shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2000 , 297, 114-121	5.7	29
189	. <i>Journal of Microelectromechanical Systems</i> , 2011 , 20, 418-423	2.5	28
188	Design of functionally graded NiTi by heat treatment. <i>Physica Scripta</i> , 2007 , T129, 222-226	2.6	28
187	Effect of ageing on the transformation behaviour of Ti _{49.5} at.% Ni. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 617-621	5.3	28
186	Compositionally graded NiTi plate prepared by diffusion annealing. <i>Scripta Materialia</i> , 2012 , 67, 305-308	5.6	27

185	Criteria of Transformation Sequences in NiTi Shape Memory Alloys. <i>Materials Transactions, JIM</i> , 1996 , 37, 691-696		27
184	Synthesis of SmCo5 by chemical reduction during mechanical alloying. <i>Applied Physics Letters</i> , 1992 , 60, 3186-3187	3.4	27
183	In vitro and in vivo studies of Mg-30Sc alloys with different phase structure for potential usage within bone. <i>Acta Biomaterialia</i> , 2019 , 98, 50-66	10.8	26
182	Grain size effect on the R-phase transformation of nanocrystalline NiTi shape memory alloys. <i>Journal of Materials Science</i> , 2014 , 49, 4643-4647	4.3	26
181	Stress-induced martensitic transformation in nanometric NiTi shape memory alloy strips: An in situ TEM study of the thickness/size effect. <i>Journal of Alloys and Compounds</i> , 2013 , 579, 100-111	5.7	26
180	Thermal analysis of the effect of aging on the transformation behaviour of TiB0.9at.% Ni. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 360, 350-355	5.3	26
179	Phase transition of NiMnGa alloy powders prepared by vibration ball milling. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4563-4568	5.7	25
178	Effect of incomplete thermal cycling on the transformation behaviour of NiTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 435-436, 251-257	5.3	25
177	Time effect of martensitic transformation in Ni43Co7Mn41Sn9. <i>Intermetallics</i> , 2010 , 18, 188-192	3.5	24
176	The role of alumina on performance of alkali-activated slag paste exposed to 50°C. <i>Cement and Concrete Research</i> , 2013 , 54, 143-150	10.3	23
175	A unique fishtail-like four-way shape memory effect of compositionally graded NiTi. <i>Scripta Materialia</i> , 2017 , 127, 84-87	5.6	23
174	Transformation intervals and elastic strain energies of B2-B19' martensitic transformation of NiTi. <i>Intermetallics</i> , 2010 , 18, 2431-2434	3.5	23
173	Effect of oxidation on the chemical bonding structure of PECVD SiNx thin films. <i>Journal of Applied Physics</i> , 2006 , 100, 123516	2.5	23
172	Mathematical modelling of pseudoelastic behaviour of tapered NiTi bars. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S76-S82	5.7	22
171	Assessment of tension-compression asymmetry of NiTi using circular bulge testing of thin plates. <i>Scripta Materialia</i> , 2011 , 65, 347-350	5.6	22
170	Site preference of metallic elements in M23C6 carbide in a Ni-based single crystal superalloy. <i>Materials and Design</i> , 2017 , 129, 9-14	8.1	21
169	Evolution of microstructure and mechanical properties of a dissimilar aluminium alloy weldment. <i>Materials and Design</i> , 2016 , 90, 230-237	8.1	21
168	Poisson's Ratio of Low-Temperature PECVD Silicon Nitride Thin Films. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 622-627	2.5	21

167	A novel HfNbTaTiV high-entropy alloy of superior mechanical properties designed on the principle of maximum lattice distortion. <i>Journal of Materials Science and Technology</i> , 2021 , 79, 109-117	9.1	21
166	Pseudoelastic behaviour of perforated NiTi shape memory plates under tension. <i>Intermetallics</i> , 2014 , 50, 59-64	3.5	20
165	An in situ TEM study of the size effect on the thermally induced martensitic transformation in nanoscale NiTi shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 588, 337-342	5.7	20
164	First identification of primary nanoparticles in the aggregation of HMF. <i>Nanoscale Research Letters</i> , 2012 , 7, 38	5	20
163	Cyclic ageing of Ti50.8 at.% Ni alloy. <i>Intermetallics</i> , 2008 , 16, 394-398	3.5	20
162	Phase separation and magnetic properties of CoNiAl ferromagnetic shape memory alloys. <i>Intermetallics</i> , 2008 , 16, 447-452	3.5	20
161	A biopolymer-like metal enabled hybrid material with exceptional mechanical prowess. <i>Scientific Reports</i> , 2015 , 5, 8357	4.9	19
160	In situ synchrotron investigation of the deformation behavior of nanolamellar Ti5Si3/TiNi composite. <i>Scripta Materialia</i> , 2014 , 78-79, 53-56	5.6	19
159	Laser annealing of functionally graded NiTi thin plate. <i>Scripta Materialia</i> , 2011 , 65, 1109-1112	5.6	19
158	Transformation dependence of two-way shape memory behaviour in NiTi. <i>Scripta Metallurgica</i> , 1988 , 22, 1327-1330		19
157	Grain size effect on the martensitic transformation temperatures of nanocrystalline NiTi alloy. <i>Smart Materials and Structures</i> , 2015 , 24, 072001	3.4	18
156	Minimum interface misfit criterion for the precipitation morphologies of TCP phases in a Ni-based single crystal superalloy. <i>Intermetallics</i> , 2018 , 94, 55-64	3.5	18
155	Martensitic transformation and magnetic properties in ferromagnetic shape memory alloy Ni43Mn46Sn11Six. <i>Intermetallics</i> , 2011 , 19, 1605-1611	3.5	18
154	Current oscillations during potentiostatic anodization of tin in alkaline electrolytes. <i>Electrochimica Acta</i> , 2011 , 56, 7051-7057	6.7	18
153	Partial thermal cycling of NiTi. <i>Journal of Alloys and Compounds</i> , 2008 , 449, 144-147	5.7	18
152	Phase equilibrium of ferromagnetic shape memory alloy Co39Ni33Al28. <i>Scripta Materialia</i> , 2006 , 54, 1299-1304	3.0	18
151	Surface oxidation of NiTi and its effects on thermal and mechanical properties. <i>Intermetallics</i> , 2018 , 103, 52-62	3.5	18
150	Retaining Large and Adjustable Elastic Strains of Kilogram-Scale Nb Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2917-22	9.5	17

- 149 Influence of internal stress coupling on the deformation behavior of NiTiNb nanowire composites. *Scripta Materialia*, **2014**, 77, 75-78 5.6 17
- 148 Development of Ti-Ag-Fe ternary titanium alloy for dental application. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2012**, 100, 185-96 3.5 17
- 147 Mechanical stabilisation of martensite due to cold deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1999**, 273-275, 668-672 5.3 17
- 146 Surface oxidation of NiTi during thermal exposure in flowing argon environment. *Materials and Design*, **2018**, 140, 123-133 8.1 17
- 145 Complex transformation field created by geometrical gradient design of NiTi shape memory alloy. *Functional Materials Letters*, **2017**, 10, 1740011 1.2 16
- 144 Determining intrinsic stress and strain state of fibre-textured thin films by X-ray diffraction measurements using combined asymmetrical and Bragg-Brentano configurations. *Materials and Design*, **2019**, 181, 108063 8.1 16
- 143 Numerical modelling of pseudoelastic behaviour of NiTi porous plates. *Journal of Intelligent Material Systems and Structures*, **2014**, 25, 1445-1455 2.3 16
- 142 The orientation dependence of transformation strain of NiMnGa polycrystalline alloy and its composite with epoxy resin. *Journal of Alloys and Compounds*, **2010**, 505, 680-684 5.7 16
- 141 Effect of short-time direct current heating on phase transformation and superelasticity of Ti_{80.8}at.%Ni alloy. *Journal of Alloys and Compounds*, **2009**, 477, 764-767 5.7 16
- 140 Transformation behaviour of TiNi and TiNiCu alloy ribbons with nano Ti₂Ni particles. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 1041-1044 5.3 16
- 139 Hierarchical grain size and nanotwin gradient microstructure for improved mechanical properties of a non-equiatomic CoCrFeMnNi high-entropy alloy. *Journal of Materials Science and Technology*, **2021**, 92, 195-207 9.1 16
- 138 Size effect on the deformation mechanisms of nanocrystalline platinum thin films. *Scientific Reports*, **2017**, 7, 13264 4.9 15
- 137 Anodization process of Sn in oxalic acid at low applied voltages. *Electrochimica Acta*, **2012**, 59, 441-448 6.7 15
- 136 Tailoring martensitic transformation and martensite structure of NiMnIn alloy by Ga doping In. *Journal of Alloys and Compounds*, **2012**, 535, 120-123 5.7 15
- 135 Microstructure, martensitic transformation and superelasticity of Ti_{49.6}Ni_{45.1}Cu₅Cr_{0.3} shape memory alloy. *Materials Letters*, **2011**, 65, 74-77 3.3 15
- 134 Factors influencing the stress-induced fcc<-hcp martensitic transformation in Co₂Ni single crystal. *Acta Materialia*, **2006**, 54, 4895-4904 8.4 15
- 133 Phase formation, magnetic properties and Raman spectra of Co_{1-x}Fe_x co-substitution M-type barium ferrites. *Applied Physics A: Materials Science and Processing*, **2015**, 119, 525-532 2.6 14
- 132 Revealing ultralarge and localized elastic lattice strains in Nb nanowires embedded in NiTi matrix. *Scientific Reports*, **2015**, 5, 17530 4.9 14

131	Multilayer porous silicon diffraction gratings operating in the infrared. <i>Nanoscale Research Letters</i> , 2012 , 7, 645	5	14
130	Finite element computational modelling and experimental investigation of perforated NiTi plates under tension. <i>Materials Research Bulletin</i> , 2013 , 48, 5099-5104	5.1	14
129	Large magnetization change and magnetoresistance associated with martensitic transformation in Mn ₂ Ni _{1.36} Sn _{0.32} Co _{0.32} alloy. <i>Journal of Applied Physics</i> , 2011 , 110, 013916	2.5	14
128	Thermal and stress-induced martensitic transformations in quaternary Ni ₅₀ Mn ₃₇ (In, Sb) ₁₃ ferromagnetic shape memory alloys. <i>Intermetallics</i> , 2010 , 18, 1690-1694	3.5	14
127	Synthesis of the high pressure FCC phase in lanthanide metals by mechanical milling. <i>Scripta Metallurgica Et Materialia</i> , 1991 , 25, 1607-1610		14
126	Structural evolution of topologically closed packed phase in a Ni-based single crystal superalloy. <i>Acta Materialia</i> , 2020 , 185, 233-244	8.4	14
125	Nonuniform transformation behaviour of NiTi in a discrete geometrical gradient design. <i>Journal of Alloys and Compounds</i> , 2019 , 774, 1260-1266	5.7	14
124	A modification on Brook formula in calculating the misfit of Ni-based superalloys. <i>Materials and Design</i> , 2017 , 126, 12-17	8.1	13
123	Experiments on deformation behaviour of functionally graded NiTi structures. <i>Data in Brief</i> , 2017 , 13, 562-568	1.2	13
122	In-situ synchrotron high energy X-ray diffraction study of micro-mechanical behaviour of R phase reorientation in nanocrystalline NiTi alloy. <i>Acta Materialia</i> , 2020 , 194, 565-576	8.4	13
121	Effect of chemical composition on particle morphology of topologically close-packed precipitates in a Ni-based single crystal superalloy. <i>Scripta Materialia</i> , 2018 , 157, 100-105	5.6	13
120	High damping NiTi/Ti ₃ Sn in situ composite with transformation-mediated plasticity. <i>Materials & Design</i> , 2014 , 63, 460-463		13
119	Effect of alloy composition on the B2R transformation in rapidly solidified TiNi alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S259-S264	5.7	13
118	Achieving large linear elasticity and high strength in bulk nanocomposite via synergistic effect. <i>Scientific Reports</i> , 2015 , 5, 8892	4.9	13
117	Mechanistic simulation of deformation-induced martensite stabilisation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 378, 459-464	5.3	13
116	Room temperature metamagnetic transformation of a tough dual-phase NiMnSnBe ferromagnetic shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154606	5.7	12
115	Achieving 5.9% elastic strain in kilograms of metallic glasses: Nanoscopic strain engineering goes macro. <i>Materials Today</i> , 2020 , 37, 18-26	21.8	12
114	Role of hydrostatic pressure on the phase stability, the ground state, and the transformation pathways of NiTi alloy. <i>Scripta Materialia</i> , 2018 , 151, 57-60	5.6	12

113	Dual Phase Synergy Enabled Large Elastic Strains of NanoInclusions in a Dislocation Slip Matrix Composite. <i>Nano Letters</i> , 2018 , 18, 2976-2983	11.5	12
112	Load transfer in phase transforming matrix/nanowire composite revealing the significant load carrying capacity of the nanowires. <i>Materials and Design</i> , 2016 , 89, 721-726	8.1	12
111	Magnetic-field-induced reverse transformation in a NiCoMnSn high temperature ferromagnetic shape memory alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 347, 72-74	2.8	12
110	Ti ₅₀ .8at.% Ni wire with variable mechanical properties created by spatial electrical resistance over-ageing. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S245-S250	5.7	12
109	Locality and rapidity of the ultra-large elastic deformation of Nb nanowires in a NiTi phase-transforming matrix. <i>Scientific Reports</i> , 2014 , 4, 6753	4.9	12
108	In situ synchrotron X-ray diffraction study of deformation behavior and load transfer in a Ti ₂ Ni-NiTi composite. <i>Applied Physics Letters</i> , 2014 , 105, 041910	3.4	12
107	Transformation behavior of TiNiCuMo alloys. <i>Journal of Alloys and Compounds</i> , 2008 , 449, 129-133	5.7	12
106	Modelling and experimental investigation of geometrically graded shape memory alloys with parallel design configuration. <i>Journal of Alloys and Compounds</i> , 2019 , 791, 711-721	5.7	11
105	Local strain matching between Nb nanowires and a phase transforming NiTi matrix in an in-situ composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 610, 6-9	5.3	11
104	The transformation behavior of M-type barium ferrites due to Co ²⁺ substitution. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 4668-4674	2.1	11
103	. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 756-761	2.5	11
102	Correction to Synthesis of the high pressure FCC phase in lanthanide metals by mechanical milling. <i>Scripta Metallurgica Et Materialia</i> , 1992 , 26, 1931-1932		11
101	Controlled initiation and propagation of stress-induced martensitic transformation in functionally graded NiTi. <i>Journal of Alloys and Compounds</i> , 2021 , 851, 156103	5.7	11
100	Effect of Cold Work and Partial Annealing on Thermomechanical Behaviour of Ti-50.5at%Ni. <i>Shape Memory and Superelasticity</i> , 2017 , 3, 57-66	2.8	10
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