

# Yinong Liu

## List of Publications by Year in Descending Order

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

256  
papers

6,965  
citations

42  
h-index

71  
g-index

269  
ext. papers

7,899  
ext. citations

5.3  
avg. IF

5.94  
L-index

#	Paper	IF	Citations
256	On the Lüders band formation and propagation in NiTi shape memory alloys. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 116, 22-29	9.1	1
255	Shear strain evolution during tension-induced Lüders-type deformation of polycrystalline NiTi plate. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 839, 142774	5.3	0
254	Large-strain Lüders-type deformation of B19' martensite in Ni <sub>47</sub> Ti <sub>49</sub> Nb <sub>2</sub> Fe <sub>2</sub> alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 829, 142136	5.3	0
253	Effect of laser scanning speed on the microstructure, phase transformation and mechanical property of NiTi alloys fabricated by LPBF. <i>Materials and Design</i> , <b>2022</b> , 215, 110460	8.1	3
252	Small-scale confined R-phase transformation in Ni <sub>47</sub> Ti <sub>49</sub> Fe <sub>2</sub> -Nb <sub>2</sub> alloy. <i>Materialia</i> , <b>2021</b> , 20, 101262	3.2	1
251	Oxygen changes crack modes of Ni-based single crystal superalloy. <i>Materials Research Letters</i> , <b>2021</b> , 9, 531-539	7.4	0
250	Timely and atomic-resolved high-temperature mechanical investigation of ductile fracture and atomistic mechanisms of tungsten. <i>Nature Communications</i> , <b>2021</b> , 12, 2218	17.4	6
249	Transferring elastic strain in Mo/Nb/TiNi multilayer nanocomposites by the principle of lattice strain matching. <i>Composites Part B: Engineering</i> , <b>2021</b> , 215, 108784	10	3
248	Large elastic strains and ductile necking of W nanowires embedded in TiNi matrix. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 60, 56-60	9.1	2
247	Controlled initiation and propagation of stress-induced martensitic transformation in functionally graded NiTi. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 851, 156103	5.7	11
246	Achieving ultra-large elastic strains in Nb thin films on NiTi phase-transforming substrate by the principle of lattice strain matching. <i>Materials and Design</i> , <b>2021</b> , 197, 109257	8.1	6
245	In-situ high energy X-ray diffraction study of microscopic deformation behavior of martensite variant reorientation in NiTi wire. <i>Applied Materials Today</i> , <b>2021</b> , 22, 100904	6.6	3
244	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> , <b>2021</b> , 79, 109-117	9.1	21
243	Enhanced superelasticity of nanocrystalline NiTi/NiTiNbFe laminar composite. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 853, 157309	5.7	4
242	3D-Printing Damage-Tolerant Architected Metallic Materials with Shape Recoverability via Special Deformation Design of Constituent Material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 39915-39924	9.5	3
241	Step-wise R phase transformation rendering high-stability two-way shape memory effect of a NiTiFe-Nb nanowire composite. <i>Acta Materialia</i> , <b>2021</b> , 219, 117258	8.4	2
240	Hierarchical grain size and nanotwin gradient microstructure for improved mechanical properties of a non-equiatomic CoCrFeMnNi high-entropy alloy. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 92, 195-207	9.1	16

239	Preparation of bioinspired graphene oxide/PMMA nanocomposite with improved mechanical properties. <i>Composites Science and Technology</i> , <b>2021</b> , 216, 109046	8.6	2
238	A comparative study of rafting mechanisms of Ni-based single crystal superalloys. <i>Materials and Design</i> , <b>2020</b> , 196, 109097	8.1	3
237	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> , <b>2020</b> , 194, 565-576	8.4	13
236	Room temperature metamagnetic transformation of a tough dual-phase NiMnSnBe ferromagnetic shape memory alloy. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 829, 154606	5.7	12
235	Achieving 5.9% elastic strain in kilograms of metallic glasses: Nanoscopic strain engineering goes macro. <i>Materials Today</i> , <b>2020</b> , 37, 18-26	21.8	12
234	"Lattice Strain Matching"-Enabled Nanocomposite Design to Harness the Exceptional Mechanical Properties of Nanomaterials in Bulk Forms. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904387	24	5
233	Ab initio prediction of phase stability of martensitic structures in binary NiTi under hydrostatic tension. <i>Physica Scripta</i> , <b>2020</b> , 95, 035701	2.6	1
232	Structural evolution of topologically closed packed phase in a Ni-based single crystal superalloy. <i>Acta Materialia</i> , <b>2020</b> , 185, 233-244	8.4	14
231	High performance Nb/TiNi nanocomposites produced by packaged accumulative roll bonding. <i>Composites Part B: Engineering</i> , <b>2020</b> , 202, 108403	10	8
230	Investigation of failure mechanisms of nacre at macro and nano scales. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 112, 104018	4.1	5
229	A eutectic dual-phase design towards superior mechanical properties of heusler-type ferromagnetic shape memory alloys. <i>Acta Materialia</i> , <b>2019</b> , 181, 278-290	8.4	6
228	Computational and experimental analyses of martensitic transformation propagation in shape memory alloys. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 806, 1522-1528	5.7	9
227	Effect of pre-straining treatment on high temperature creep behavior of Ni-based single crystal superalloys. <i>Materials and Design</i> , <b>2019</b> , 167, 107633	8.1	8
226	In vitro and in vivo studies of Mg-30Sc alloys with different phase structure for potential usage within bone. <i>Acta Biomaterialia</i> , <b>2019</b> , 98, 50-66	10.8	26
225	Modelling and experimental investigation of geometrically graded shape memory alloys with parallel design configuration. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 791, 711-721	5.7	11
224	Monoclinic angle, shear response, and minimum energy pathways of NiTiCu martensite phases from ab initio calculations. <i>Acta Materialia</i> , <b>2019</b> , 178, 59-67	8.4	3
223	Determining intrinsic stress and strain state of fibre-textured thin films by X-ray diffraction measurements using combined asymmetrical and Bragg-Brentano configurations. <i>Materials and Design</i> , <b>2019</b> , 181, 108063	8.1	16
222	Experimental and numerical data for transformation propagation in NiTi shape memory structures. <i>Data in Brief</i> , <b>2019</b> , 27, 104566	1.2	3

221	Numerical modelling of pseudoelastic behaviour of geometrically graded shape memory alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 522, 012005	0.4	2
220	Nonuniform transformation behaviour of NiTi in a discrete geometrical gradient design. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 774, 1260-1266	5.7	14
219	Role of hydrostatic pressure on the phase stability, the ground state, and the transformation pathways of NiTi alloy. <i>Scripta Materialia</i> , <b>2018</b> , 151, 57-60	5.6	12
218	Microstructural and compositional design of Ni-based single crystalline superalloys [A review]. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 743, 203-220	5.7	143
217	Minimum interface misfit criterion for the precipitation morphologies of TCP phases in a Ni-based single crystal superalloy. <i>Intermetallics</i> , <b>2018</b> , 94, 55-64	3.5	18
216	Dual Phase Synergy Enabled Large Elastic Strains of Nano-inclusions in a Dislocation Slip Matrix Composite. <i>Nano Letters</i> , <b>2018</b> , 18, 2976-2983	11.5	12
215	Phase Formation in TiNi Binary System during Solid-State Synthesis. <i>Shape Memory and Superelasticity</i> , <b>2018</b> , 4, 351-359	2.8	3
214	Effect of chemical composition on particle morphology of topologically close-packed precipitates in a Ni-based single crystal superalloy. <i>Scripta Materialia</i> , <b>2018</b> , 157, 100-105	5.6	13
213	Growth Orientation Control of Co Nanowires Fabricated by Electrochemical Deposition Using Porous Alumina Templates. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 479-487	3.5	7
212	Surface oxidation of NiTi during thermal exposure in flowing argon environment. <i>Materials and Design</i> , <b>2018</b> , 140, 123-133	8.1	17
211	Surface oxidation of NiTi and its effects on thermal and mechanical properties. <i>Intermetallics</i> , <b>2018</b> , 103, 52-62	3.5	18
210	Effect of thermal annealing on stress relaxation and crystallisation of ion beam sputtered amorphous Si <sub>1-x</sub> Ge <sub>x</sub> thin films. <i>Materials and Design</i> , <b>2018</b> , 156, 389-397	8.1	4
209	Complex transformation field created by geometrical gradient design of NiTi shape memory alloy. <i>Functional Materials Letters</i> , <b>2017</b> , 10, 1740011	1.2	16
208	A modification on Brook formula in calculating the misfit of Ni-based superalloys. <i>Materials and Design</i> , <b>2017</b> , 126, 12-17	8.1	13
207	Site preference of metallic elements in M <sub>23</sub> C <sub>6</sub> carbide in a Ni-based single crystal superalloy. <i>Materials and Design</i> , <b>2017</b> , 129, 9-14	8.1	21
206	Experiments on deformation behaviour of functionally graded NiTi structures. <i>Data in Brief</i> , <b>2017</b> , 13, 562-568	1.2	13
205	Effect of Cold Work and Partial Annealing on Thermomechanical Behaviour of Ti-50.5at%Ni. <i>Shape Memory and Superelasticity</i> , <b>2017</b> , 3, 57-66	2.8	10
204	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> , <b>2017</b> , 130, 297-309	8.4	36

203	Functionally graded shape memory alloys: Design, fabrication and experimental evaluation. <i>Materials and Design</i> , <b>2017</b> , 124, 225-237	8.1	50
202	Size effect on the deformation mechanisms of nanocrystalline platinum thin films. <i>Scientific Reports</i> , <b>2017</b> , 7, 13264	4.9	15
201	Shearing mechanisms of stacking fault and anti-phase-boundary forming dislocation pairs in the $\gamma$ phase in Ni-based single crystal superalloy. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 724, 287-295	5.7	36
200	Elemental preference and atomic scale site recognition in a Co-Al-W-base superalloy. <i>Scientific Reports</i> , <b>2017</b> , 7, 17240	4.9	9
199	A unique fishtail-like four-way shape memory effect of compositionally graded NiTi. <i>Scripta Materialia</i> , <b>2017</b> , 127, 84-87	5.6	23
198	Response to Comments on Selective evolution of secondary $\gamma$ precipitation in a Ni-based single crystal superalloy both in the $\gamma$ matrix and at the dislocation nodes. <i>Scripta Materialia</i> , <b>2017</b> , 129, 104-106 <sup>5.6</sup>		
197	MEMS Device for Quantitative In Situ Mechanical Testing in Electron Microscope. <i>Micromachines</i> , <b>2017</b> , 8, 31	3.3	4
196	Low-temperature co-fired NiTi co-substituted barium ferrites. <i>Journal of Composite Materials</i> , <b>2016</b> , 50, 173-178	2.7	7
195	Effect of lattice misfit on the evolution of the dislocation structure in Ni-based single crystal superalloys during thermal exposure. <i>Acta Materialia</i> , <b>2016</b> , 120, 95-107	8.4	50
194	Preparing TiNiNb shape memory alloy powders by hydriding-dehydriding process. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 075042	3.4	1
193	Synchrotron high energy X-ray diffraction study of microstructure evolution of severely cold drawn NiTi wire during annealing. <i>Acta Materialia</i> , <b>2016</b> , 115, 35-44	8.4	47
192	Achieving Superior Two-Way Actuation by the Stress-Coupling of Nanoribbons and Nanocrystalline Shape Memory Alloy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 16310-6	9.5	7
191	. <i>Journal of Microelectromechanical Systems</i> , <b>2016</b> , 25, 549-556	2.5	1
190	Retaining Large and Adjustable Elastic Strains of Kilogram-Scale Nb Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 2917-22	9.5	17
189	Evolution of microstructure and mechanical properties of a dissimilar aluminium alloy weldment. <i>Materials and Design</i> , <b>2016</b> , 90, 230-237	8.1	21
188	Load transfer in phase transforming matrix-nanowire composite revealing the significant load carrying capacity of the nanowires. <i>Materials and Design</i> , <b>2016</b> , 89, 721-726	8.1	12
187	Stress serration and arch-shaped Lüders stress plateau behaviour of Ti-0.8 at% Ni wire prepared by selective electrical resistance over-aging. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 115035	3.4	6
186	Selective evolution of secondary $\gamma$ precipitation in a Ni-based single crystal superalloy both in the $\gamma$ matrix and at the dislocation nodes. <i>Acta Materialia</i> , <b>2016</b> , 116, 343-353	8.4	35

185	Phase formation, magnetic properties and Raman spectra of Co <sup>2+</sup> co-substitution M-type barium ferrites. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 119, 525-532	2.6	14
184	Grain size effect on the martensitic transformation temperatures of nanocrystalline NiTi alloy. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 072001	3.4	18
183	Co <sup>2+</sup> co-substitution of M-type hexagonal barium ferrite. <i>Materials Research Express</i> , <b>2015</b> , 2, 046104	1.7	10
182	Deformation behavior of Nb nanowires in TiNiCu shape memory alloy matrix. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 646, 52-56	5.3	7
181	Structural and magnetic properties of M <sup>2+</sup> (M = Ni or Zn) co-substituted M-type barium ferrite by a novel sintering process. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 1060-1065	2.1	8
180	Achieving large linear elasticity and high strength in bulk nanocomposite via synergistic effect. <i>Scientific Reports</i> , <b>2015</b> , 5, 8892	4.9	13
179	Revealing ultralarge and localized elastic lattice strains in Nb nanowires embedded in NiTi matrix. <i>Scientific Reports</i> , <b>2015</b> , 5, 17530	4.9	14
178	A biopolymer-like metal enabled hybrid material with exceptional mechanical prowess. <i>Scientific Reports</i> , <b>2015</b> , 5, 8357	4.9	19
177	Microstructure and phase stress partition of Mo fiber reinforced CuZnAl composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 628, 419-422	5.3	8
176	Microstructure, transformation behavior and mechanical properties of a (Ti <sub>50</sub> Ni <sub>38</sub> Cu <sub>12</sub> ) <sub>93</sub> Nb <sub>7</sub> alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 627, 348-350	5.3	9
175	The transformation behavior of M-type barium ferrites due to Co <sup>2+</sup> substitution. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 4668-4674	2.1	11
174	Pseudoelastic behaviour of perforated NiTi shape memory plates under tension. <i>Intermetallics</i> , <b>2014</b> , 50, 59-64	3.5	20
173	Numerical modelling of pseudoelastic behaviour of NiTi porous plates. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2014</b> , 25, 1445-1455	2.3	16
172	Grain size effect on the R-phase transformation of nanocrystalline NiTi shape memory alloys. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 4643-4647	4.3	26
171	Influence of internal stress coupling on the deformation behavior of NiTi/Nb nanowire composites. <i>Scripta Materialia</i> , <b>2014</b> , 77, 75-78	5.6	17
170	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> , <b>2014</b> , 588, 337-342	5.7	20
169	In situ W/NiTi shape memory alloy composite of high radiopacity. <i>Scripta Materialia</i> , <b>2014</b> , 81, 4-7	5.6	10
168	Local strain matching between Nb nanowires and a phase transforming NiTi matrix in an in-situ composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 610, 6-9	5.3	11

167	High damping NiTi/Ti <sub>3</sub> Sn in situ composite with transformation-mediated plasticity. <i>Materials &amp; Design</i> , <b>2014</b> , 63, 460-463		13
166	Locality and rapidity of the ultra-large elastic deformation of Nb nanowires in a NiTi phase-transforming matrix. <i>Scientific Reports</i> , <b>2014</b> , 4, 6753	4.9	12
165	Nanoindentation of Si <sub>1-x</sub> Ge <sub>x</sub> thin films prepared by biased target ion beam deposition <b>2014</b> ,		1
164	Long-term stability of ICPCVD a-Si under prolonged heat treatment <b>2014</b> ,		3
163	In situ synchrotron X-ray diffraction study of deformation behavior and load transfer in a Ti <sub>2</sub> Ni-NiTi composite. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 041910	3.4	12
162	A novel method for fabricating Fe nanobelts. <i>Materials Letters</i> , <b>2014</b> , 124, 245-248	3.3	1
161	In situ synchrotron investigation of the deformation behavior of nanolamellar Ti <sub>5</sub> Si <sub>3</sub> /TiNi composite. <i>Scripta Materialia</i> , <b>2014</b> , 78-79, 53-56	5.6	19
160	Supercapacitor and nanoscale research towards electrochemical energy storage. <i>International Journal of Smart and Nano Materials</i> , <b>2013</b> , 4, 2-26	3.6	43
159	Modelling and experimental investigation of geometrically graded NiTi shape memory alloys. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 025030	3.4	46
158	Grinding-induced martensite stabilization in Mn <sub>50</sub> Ni <sub>33.5</sub> Sn <sub>8</sub> Co <sub>8.5</sub> alloy. <i>Materials Letters</i> , <b>2013</b> , 107, 239-242	3.3	4
157	Magnetic-field-induced reverse transformation in a NiCoMnSn high temperature ferromagnetic shape memory alloy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 347, 72-74	2.8	12
156	A transforming metal nanocomposite with large elastic strain, low modulus, and high strength. <i>Science</i> , <b>2013</b> , 339, 1191-4	33.3	190
155	The role of alumina on performance of alkali-activated slag paste exposed to 50°C. <i>Cement and Concrete Research</i> , <b>2013</b> , 54, 143-150	10.3	23
154	Effect of alloy composition on the B2B transformation in rapidly solidified TiNi alloys. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 577, S259-S264	5.7	13
153	Ti <sub>50.8</sub> at.% Ni wire with variable mechanical properties created by spatial electrical resistance over-ageing. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 577, S245-S250	5.7	12
152	Crystallization and grain refinement of Ti <sub>30</sub> Ni <sub>20</sub> Cu (at%) alloy ribbons prepared by melt spinning. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 577, S179-S183	5.7	3
151	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> , <b>2013</b> , 579, 100-111	5.7	26
150	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 &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 580, 114-124	5.3	73



149	Hystoelastic deformation behaviour of geometrically graded NiTi shape memory alloys. <i>Materials &amp; Design</i> , <b>2013</b> , 50, 879-885		32
148	Mathematical modelling of pseudoelastic behaviour of tapered NiTi bars. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 577, S76-S82	5.7	22
147	Resistance welding of NiTi shape memory alloy tubes. <i>Journal of Materials Processing Technology</i> , <b>2013</b> , 213, 1139-1145	5.3	30
146	Finite element computational modelling and experimental investigation of perforated NiTi plates under tension. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 5099-5104	5.1	14
145	Cryogenic optical profilometry for the calculation of coefficient of thermal expansion in thin films <b>2013</b> ,		1
144	Functional Carbonaceous Compound Assisted Assembling of SnO <sub>2</sub> @C Nanocomposite as a Lithium Storage Anode Material. <i>Science of Advanced Materials</i> , <b>2013</b> , 5, 37-45	2.3	2
143	Anodization process of Sn in oxalic acid at low applied voltages. <i>Electrochimica Acta</i> , <b>2012</b> , 59, 441-448	6.7	15
142	A unified thermodynamic theory for the formation of anodized metal oxide structures. <i>Electrochimica Acta</i> , <b>2012</b> , 62, 424-432	6.7	29
141	Compositionally graded NiTi plate prepared by diffusion annealing. <i>Scripta Materialia</i> , <b>2012</b> , 67, 305-308	5.6	27
140	The effect of adsorbed fumaric acid on dispersions of rough titania particles. <i>Powder Technology</i> , <b>2012</b> , 223, 110-115	5.2	2
139	Development of Ti-Ag-Fe ternary titanium alloy for dental application. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2012</b> , 100, 185-96	3.5	17
138	Liquid-Solid Reactions and Microstructure of SiC-5120 Steel Composite Brake Material. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 658-664	2.3	1
137	Thermomechanical modelling of microstructurally graded shape memory alloys. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 541, 407-414	5.7	39
136	Self-assembled structures of CuO primary crystals synthesized from Cu(CH <sub>3</sub> COO) <sub>2</sub> ·NaOH aqueous systems. <i>CrystEngComm</i> , <b>2012</b> , 14, 5289	3.3	40
135	. <i>Journal of Microelectromechanical Systems</i> , <b>2012</b> , 21, 756-761	2.5	11
134	Tailoring martensitic transformation and martensite structure of NiMnIn alloy by Ga doping In. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 535, 120-123	5.7	15
133	Phase selective route to Ni(OH) <sub>2</sub> with enhanced supercapacitance: Performance dependent hydrolysis of Ni(Ac) <sub>2</sub> at hydrothermal conditions. <i>Electrochimica Acta</i> , <b>2012</b> , 78, 1-10	6.7	77
132	Multilayer porous silicon diffraction gratings operating in the infrared. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 645	5	14



131	Transformation behavior and shape memory characteristics of thermo-mechanically treated Ti <sub>45</sub> Ni <sub>5</sub> Cu <sub>5</sub> V (at%) alloys. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 2939-2942	5.1	5
130	First identification of primary nanoparticles in the aggregation of HMF. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 38	5	20
129	Functionally graded NiTi strips prepared by laser surface anneal. <i>Acta Materialia</i> , <b>2012</b> , 60, 1658-1668	8.4	69
128	Hydrophobic precipitation of carbonaceous spheres from fructose by a hydrothermal process. <i>Carbon</i> , <b>2012</b> , 50, 2155-2161	10.4	76
127	The Concept of Electronegativity and Its Applications to Materials Design. <i>Reviews in Advanced Sciences and Engineering</i> , <b>2012</b> , 1, 119-133		3
126	Thermal Stability of the R Phase of a Rapidly Solidified Ti-47.3Ni (at%) Alloy. <i>Transactions on Electrical and Electronic Materials</i> , <b>2012</b> , 13, 19-22	1.7	
125	Large magnetization change and magnetoresistance associated with martensitic transformation in Mn <sub>2</sub> Ni <sub>1.36</sub> Sn <sub>0.32</sub> Co <sub>0.32</sub> alloy. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 013916	2.5	14
124	Martensitic and magnetic transformation behaviours in Mn <sub>50</sub> Ni <sub>42</sub> Sn <sub>8</sub> Co polycrystalline alloys. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 385403	3	7
123	Phase transition of Ni <sub>50</sub> Mn <sub>50</sub> alloy powders prepared by vibration ball milling. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 4563-4568	5.7	25
122	Metallurgical origin of the effect of Fe doping on the martensitic and magnetic transformation behaviours of Ni <sub>50</sub> Mn <sub>40-x</sub> Sn <sub>10</sub> Fe <sub>x</sub> magnetic shape memory alloys. <i>Intermetallics</i> , <b>2011</b> , 19, 445-452	3.5	36
121	Martensitic transformation and magnetic properties in ferromagnetic shape memory alloy Ni <sub>43</sub> Mn <sub>46</sub> Sn <sub>11</sub> Si <sub>6</sub> . <i>Intermetallics</i> , <b>2011</b> , 19, 1605-1611	3.5	18
120	Effect of Co addition on martensitic phase transformation and magnetic properties of Mn <sub>50</sub> Ni <sub>40-x</sub> In <sub>10</sub> Co <sub>x</sub> polycrystalline alloys. <i>Intermetallics</i> , <b>2011</b> , 19, 1839-1848	3.5	31
119	Thermally induced damages of PECVD SiNx thin films. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 2552-2557	2.5	3
118	Assessment of tension-compression asymmetry of NiTi using circular bulge testing of thin plates. <i>Scripta Materialia</i> , <b>2011</b> , 65, 347-350	5.6	22
117	Laser annealing of functionally graded NiTi thin plate. <i>Scripta Materialia</i> , <b>2011</b> , 65, 1109-1112	5.6	19
116	Microstructure, martensitic transformation and superelasticity of Ti <sub>49.6</sub> Ni <sub>45.1</sub> Cu <sub>5</sub> Cr <sub>0.3</sub> shape memory alloy. <i>Materials Letters</i> , <b>2011</b> , 65, 74-77	3.3	15
115	Preparation of nanoporous tin oxide by electrochemical anodization in alkaline electrolytes. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 8797-8801	6.7	48
114	Formation mechanism of novel two-dimensional single crystalline dendritic copper plates in an aqueous environment. <i>Acta Materialia</i> , <b>2011</b> , 59, 7177-7188	8.4	6

113	Chemical resistance of porous silicon: photolithographic applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 1847-1850		10
112	. <i>Journal of Microelectromechanical Systems</i> , <b>2011</b> , 20, 418-423	2.5	28
111	Isomerism and solubility of benzene mono- and dicarboxylic acid: its effect on alumina dispersions. <i>Langmuir</i> , <b>2011</b> , 27, 49-58	4	9
110	Current oscillations during potentiostatic anodization of tin in alkaline electrolytes. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 7051-7057	6.7	18
109	Thermal arrest analysis of thermoelastic martensitic transformations in shape memory alloys. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 1243-1252	2.5	4
108	Metamagnetic phase transformation in Mn <sub>50</sub> Ni <sub>37</sub> In <sub>10</sub> Co <sub>3</sub> polycrystalline alloy. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 061904	3.4	35
107	MILD SOLUTION ROUTE TO MIXED-PHASE MnO <sub>2</sub> WITH ENHANCED ELECTROCHEMICAL CAPACITANCE. <i>Functional Materials Letters</i> , <b>2011</b> , 04, 57-60	1.2	44
106	Computational Modelling of Deformation of NiTi Plates with Circular Holes. <i>Materials Science Forum</i> , <b>2010</b> , 654-656, 2091-2094	0.4	9
105	High yield stress associated with capillary attraction between alumina surfaces in the presence of low molecular weight dicarboxylic acids. <i>Langmuir</i> , <b>2010</b> , 26, 3067-76	4	9
104	Time effect of martensitic transformation in Ni <sub>43</sub> Co <sub>7</sub> Mn <sub>41</sub> Sn <sub>9</sub> . <i>Intermetallics</i> , <b>2010</b> , 18, 188-192	3.5	24
103	Thermal and stress-induced martensitic transformations in quaternary Ni <sub>50</sub> Mn <sub>37</sub> (In, Sb) <sub>13</sub> ferromagnetic shape memory alloys. <i>Intermetallics</i> , <b>2010</b> , 18, 1690-1694	3.5	14
102	Transformation intervals and elastic strain energies of B2-B19' martensitic transformation of NiTi. <i>Intermetallics</i> , <b>2010</b> , 18, 2431-2434	3.5	23
101	The orientation dependence of transformation strain of Ni <sub>50</sub> Mn <sub>37</sub> In <sub>10</sub> Co <sub>3</sub> polycrystalline alloy and its composite with epoxy resin. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 505, 680-684	5.7	16
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90	Phase transformation of NiTi shape memory alloy powders prepared by ball milling. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, 576-579	5.7	4
89	Effect of short-time direct current heating on phase transformation and superelasticity of Ti <sub>50</sub> .8at.%Ni alloy. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, 764-767	5.7	16
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87	Partial thermal cycling of NiTi. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 449, 144-147	5.7	18
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82	Phase separation and magnetic properties of Co <sub>50</sub> Ni <sub>50</sub> Al ferromagnetic shape memory alloys. <i>Intermetallics</i> , <b>2008</b> , 16, 447-452	3.5	20
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78	Gradient anneal of functionally graded NiTi. <i>Smart Materials and Structures</i> , <b>2008</b> , 17, 015031	3.4	65

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