

Daqiang Jiang

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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.

65
papers

791
citations

14
h-index

24
g-index

67
ext. papers

1,006
ext. citations

6.8
avg, IF

3.79
L-index

#	Paper	IF	Citations
65	A transforming metal nanocomposite with large elastic strain, low modulus, and high strength. <i>Science</i> , 2013 , 339, 1191-4	33.3	190
64	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
63	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
62	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
61	Point defect engineering and machinability in n-type Mg ₃ Sb ₂ -based materials. <i>Materials Today Physics</i> , 2020 , 15, 100269	8	25
60	New route toward building active ruthenium nanoparticles on ordered mesoporous carbons with extremely high stability. <i>Scientific Reports</i> , 2014 , 4, 4540	4.9	21
59	A biopolymer-like metal enabled hybrid material with exceptional mechanical prowess. <i>Scientific Reports</i> , 2015 , 5, 8357	4.9	19
58	In situ synchrotron investigation of the deformation behavior of nanolamellar Ti ₅ Si ₃ /TiNi composite. <i>Scripta Materialia</i> , 2014 , 78-79, 53-56	5.6	19
57	Retaining Large and Adjustable Elastic Strains of Kilogram-Scale Nb Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2917-22	9.5	17
56	Influence of internal stress coupling on the deformation behavior of NiTi/Nb nanowire composites. <i>Scripta Materialia</i> , 2014 , 77, 75-78	5.6	17
55	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> , 2019 , 181, 108063	8.1	16
54	High strength W/TiNi micro-laminated composite with transformation-mediated ductility. <i>Materials and Design</i> , 2016 , 106, 415-419	8.1	15
53	A novel multifunctional NiTi/Ag hierarchical composite. <i>Scientific Reports</i> , 2014 , 4, 5267	4.9	15
52	Revealing ultralarge and localized elastic lattice strains in Nb nanowires embedded in NiTi matrix. <i>Scientific Reports</i> , 2015 , 5, 17530	4.9	14
51	A novel stretchable coaxial NiTi-sheath/Cu-core composite with high strength and high conductivity. <i>Advanced Materials</i> , 2013 , 25, 1199-202	24	14
50	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
49	High damping NiTi/Ti ₃ Sn in situ composite with transformation-mediated plasticity. <i>Materials & Design</i> , 2014 , 63, 460-463		13

48	Achieving large linear elasticity and high strength in bulk nanocomposite via synergistic effect. <i>Scientific Reports</i> , 2015 , 5, 8892	4.9	13
47	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
46	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
45	Fabrication of ultrafine manganese oxide-decorated carbon nanofibers for high-performance electrochemical capacitors. <i>Electrochimica Acta</i> , 2016 , 211, 524-532	6.7	12
44	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
43	In situ synchrotron X-ray diffraction study of deformation behavior and load transfer in a Ti2Ni-NiTi composite. <i>Applied Physics Letters</i> , 2014 , 105, 041910	3.4	12
42	Constrained martensitic transformation in an in situ lamella TiNi/NbTi shape memory composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 515, 131-133	5.3	12
41	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
40	Fabrication, microstructure and mechanical properties of WNiTi composites. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 1976-1983	5.7	10
39	Superior strength-ductility synergy by hetero-structuring high manganese steel. <i>Materials Research Letters</i> , 2020 , 8, 417-423	7.4	10
38	A nano lamella NbTiNiTi composite with high strength. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 633, 121-124	5.3	9
37	Microstructure, transformation behavior and mechanical properties of a (Ti50Ni38Cu12)93Nb7 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 627, 348-350	5.3	9
36	Nanostructured Nb reinforced NiTi shape memory alloy composite with high strength and narrow hysteresis. <i>Applied Physics Letters</i> , 2013 , 102, 231905	3.4	9
35	Achieving ultra-high bearing strength of tungsten nanoribbons in a transforming metal matrix. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 1-7	5.7	9
34	High performance Nb/TiNi nanocomposites produced by packaged accumulative roll bonding. <i>Composites Part B: Engineering</i> , 2020 , 202, 108403	10	8
33	Deformation behavior of Nb nanowires in TiNiCu shape memory alloy matrix. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 646, 52-56	5.3	7
32	Achieving Superior Two-Way Actuation by the Stress-Coupling of Nanoribbons and Nanocrystalline Shape Memory Alloy. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16310-6	9.5	7
31	Negative thermal expansion arrest point memory effect in TiNi shape memory alloy and NbTi/TiNi composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 549, 114-117	5.3	7

30	Effect of deformation on the stability of stress-induced martensite in nanocrystalline NiTi shape memory alloy. <i>Materials Letters</i> , 2014 , 131, 233-235	3-3	6
29	Transformation behavior of explosively welded TiNi/TiNi laminate after diffusion annealing and aging. <i>Materials Research Bulletin</i> , 2013 , 48, 5033-5035	5-1	6
28	Superelastic memory effect in in-situ NbTi-nanowire-NiTi nanocomposite. <i>Applied Physics Letters</i> , 2012 , 101, 173115	3-4	6
27	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> , 2021 , 197, 109257	8-1	6
26	Narrow hysteresis behavior of TiNi shape memory alloy constrained by NbTi matrix during incomplete transformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 536, 33-36	5-3	5
25	In situ TEM observation of buffering the anode volume change by using NiTi alloy during electrochemical lithiation/delithiation. <i>Nanotechnology</i> , 2013 , 24, 325702	3-4	5
24	"Lattice Strain Matching"-Enabled Nanocomposite Design to Harness the Exceptional Mechanical Properties of Nanomaterials in Bulk Forms. <i>Advanced Materials</i> , 2020 , 32, e1904387	24	5
23	NiTi-Enabled Composite Design for Exceptional Performances. <i>Shape Memory and Superelasticity</i> , 2017 , 3, 67-81	2-8	4
22	Temperature-dependence of superelastic stress in nanocrystalline NiTi with complete transformation capability. <i>Intermetallics</i> , 2020 , 127, 106970	3-5	4
21	Microstructure of stress-induced martensite in nanocrystalline NiTi shape memory alloy. <i>Rare Metals</i> , 2014 , 33, 379-382	5-5	4
20	Constrained martensitic transformation in nanocrystalline TiNi/NbTi shape memory composites. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S749-S751	5-7	4
19	In situ X-ray diffraction study of deformation behavior in a Fe/NiTi composite. <i>Applied Physics Letters</i> , 2012 , 101, 221904	3-4	4
18	Enhanced superelasticity of nanocrystalline NiTi/NiTiNbFe laminar composite. <i>Journal of Alloys and Compounds</i> , 2021 , 853, 157309	5-7	4
17	Grain-size gradient NiTi ribbons with multiple-step shape transition prepared by melt-spinning. <i>Journal of Materials Science and Technology</i> , 2021 , 71, 163-168	9-1	4
16	Fabrication and Property of W/TiNb Shape Memory Alloy Laminated Composite. <i>Materials Science Forum</i> , 2015 , 815, 211-216	0-4	3
15	Graphene sensing an inhomogeneous strain due to the surface relief in FeNiCoTi shape memory alloy. <i>Journal of Raman Spectroscopy</i> , 2014 , 45, 1-6	2-3	3
14	In situ NiTi/Nb(Ti) composite. <i>Materials Research Bulletin</i> , 2013 , 48, 5049-5052	5-1	3
13	Transferring elastic strain in Mo/Nb/TiNi multilayer nanocomposites by the principle of lattice strain matching. <i>Composites Part B: Engineering</i> , 2021 , 215, 108784	10	3

12	3D-Printing Damage-Tolerant Architected Metallic Materials with Shape Recoverability via Special Deformation Design of Constituent Material. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39915-39924	9.5	3
11	In situ High-Energy X-Ray Diffraction Study of Load Partitioning in Nb/NiTi Nanocomposite Plate. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 3271-3275	2.3	2
10	In situ observation of structure and electrical property changes of a Ga-doped ZnO/graphene flexible transparent electrode during deformation. <i>Applied Physics Letters</i> , 2014 , 104, 221907	3.4	2
9	Large elastic strains and ductile necking of W nanowires embedded in TiNi matrix. <i>Journal of Materials Science and Technology</i> , 2021 , 60, 56-60	9.1	2
8	Step-wise R phase transformation rendering high-stability two-way shape memory effect of a NiTiFe-Nb nanowire composite. <i>Acta Materialia</i> , 2021 , 219, 117258	8.4	2
7	Influence of Annealing and Pre-Straining on the Coupling Effect of a TiNi-Nb Nanowire Composite. <i>Materials Science Forum</i> , 2014 , 787, 307-312	0.4	1
6	Effects of Thermal Cycling on the Temperature Memory Effect of TiNiNb Alloy. <i>Journal of Materials Engineering and Performance</i> , 2010 , 19, 1022-1024	1.6	1
5	Small-scale confined R-phase transformation in Ni ₄₇ Ti ₄₉ Fe ₂ -Nb ₂ alloy. <i>Materialia</i> , 2021 , 20, 101262	3.2	1
4	Large-strain Lüders-type deformation of B19Tmartensite in Ni ₄₇ Ti ₄₉ Nb ₂ Fe ₂ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 829, 142136	5.3	0
3	Ductile-Brittle Variation Phenomenon and a Special Transformation-Induced Plasticity Effect in NbTi-NiTi Composite. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 296-302	1.6	
2	A New Class of Metal Nanocomposites with Superior Mechanical Properties: Unusual Thermal Expansion in NbTi-Nanowires/NiTi-Matrix Composite 2014 , 125-135		
1	A New Class of Metal Nanocomposites With Superior Mechanical Properties: Unusual Thermal Expansion in NbTi-Nanowires / NiTi-Matrix Composite 2014 , 127-135		