## IbrahIm Karaman

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62 12,616 91 377 h-index g-index citations papers 6.66 14,339 390 4.9 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
377	High temperature shape memory alloys. <i>International Materials Reviews</i> , <b>2010</b> , 55, 257-315	16.1	591
376	Magnetic Field-Induced Phase Transformation in NiMnCoIn Magnetic Shape-Memory Alloys New Actuation Mechanism with Large Work Output. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 983-998	15.6	320
375	Deformation of single crystal Hadfield steel by twinning and slip. <i>Acta Materialia</i> , <b>2000</b> , 48, 1345-1359	8.4	298
374	Magnetic field and stress induced martensite reorientation in NiMnGa ferromagnetic shape memory alloy single crystals. <i>Acta Materialia</i> , <b>2006</b> , 54, 233-245	8.4	261
373	Modeling the deformation behavior of Hadfield steel single and polycrystals due to twinning and slip. <i>Acta Materialia</i> , <b>2000</b> , 48, 2031-2047	8.4	229
372	Compressive response of NiTi single crystals. <i>Acta Materialia</i> , <b>2000</b> , 48, 3311-3326	8.4	205
371	Competing mechanisms and modeling of deformation in austenitic stainless steel single crystals with and without nitrogen. <i>Acta Materialia</i> , <b>2001</b> , 49, 3919-3933	8.4	166
370	Thermomechanical cyclic response of an ultrafine-grained NiTi shape memory alloy. <i>Acta Materialia</i> , <b>2008</b> , 56, 3630-3646	8.4	149
369	Mechanical twinning and texture evolution in severely deformed TiBAlAV at high temperatures. <i>Acta Materialia</i> , <b>2006</b> , 54, 3755-3771	8.4	146
368	TEM study of structural and microstructural characteristics of a precipitate phase in Ni-rich NiIIi and NiIIII rshape memory alloys. <i>Acta Materialia</i> , <b>2013</b> , 61, 6191-6206	8.4	133
367	A method to enhance cyclic reversibility of NiTiHf high temperature shape memory alloys. <i>Scripta Materialia</i> , <b>2006</b> , 54, 2203-2208	5.6	129
366	Energy harvesting using martensite variant reorientation mechanism in a NiMnGa magnetic shape memory alloy. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 172505	3.4	127
365	Shape memory and pseudoelastic behavior of 51.5%NiIIi single crystals in solutionized and overaged state. <i>Acta Materialia</i> , <b>2001</b> , 49, 3609-3620	8.4	115
364	On the stress-assisted magnetic-field-induced phase transformation in Ni2MnGa ferromagnetic shape memory alloys. <i>Acta Materialia</i> , <b>2007</b> , 55, 4253-4269	8.4	111
363	Mechanical and wear properties of ultrafine-grained pure Ti produced by multi-pass equal-channel angular extrusion. <i>Materials Science &amp; Discourse ing A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 517, 97-104	5.3	106
362	On the mechanical behavior of single crystal NiTi shape memory alloys and related polycrystalline phenomenon. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 317, 85-92	5.3	101
361	Effect of grain size on prismatic slip in MgBAlfIZn alloy. Scripta Materialia, 2012, 67, 439-442	5.6	100

## (2012-2015)

360	Microstructural characterization and shape memory characteristics of the Ni50.3Ti34.7Hf15 shape memory alloy. <i>Acta Materialia</i> , <b>2015</b> , 83, 48-60	8.4	97	
359	Transformation behaviour and unusual twinning in a NiTi shape memory alloy ausformed using equal channel angular extrusion. <i>Philosophical Magazine</i> , <b>2005</b> , 85, 1729-1745	1.6	94	
358	Cyclic deformation behavior of single crystal NiTi. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2001</b> , 314, 67-74	5.3	93	
357	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> , <b>2004</b> , 35, 2935-2949	2.3	90	
356	Giant elastocaloric effect in directionally solidified NiMnIh magnetic shape memory alloy. <i>Scripta Materialia</i> , <b>2015</b> , 105, 42-45	5.6	86	
355	Microstructure, crystallographic texture, and plastic anisotropy evolution in an Mg alloy during equal channel angular extrusion processing. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 7616-7627	5.3	86	
354	Grain refinement vs. crystallographic texture: Mechanical anisotropy in a magnesium alloy. <i>Scripta Materialia</i> , <b>2011</b> , 64, 193-196	5.6	85	
353	Cyclic stressEtrain response of ultrafine grained copper. <i>International Journal of Fatigue</i> , <b>2006</b> , 28, 243-2	2 <del>5</del> 0	84	
352	The effect of heat treatments on Ni43Mn42Co4Sn11 meta-magnetic shape memory alloys for magnetic refrigeration. <i>Acta Materialia</i> , <b>2014</b> , 74, 66-84	8.4	82	
351	Recoverable stress-induced martensitic transformation in a ferromagnetic CoNiAl alloy. <i>Scripta Materialia</i> , <b>2003</b> , 49, 831-836	5.6	82	
350	Assessing printability maps in additive manufacturing of metal alloys. <i>Acta Materialia</i> , <b>2019</b> , 176, 199-27	18.4	81	
349	An inverse optimization strategy to determine single crystal mechanical behavior from polycrystal tests: Application to AZ31 Mg alloy. <i>International Journal of Plasticity</i> , <b>2014</b> , 57, 1-15	7.6	81	
348	Extrinsic stacking faults and twinning in hadfield manganese steel single crystals. <i>Scripta Materialia</i> , <b>2001</b> , 44, 337-343	5.6	80	
347	Spatial Control of Functional Response in 4D-Printed Active Metallic Structures. <i>Scientific Reports</i> , <b>2017</b> , 7, 46707	4.9	78	
346	Effect of precipitation on mechanical and wear properties of ultrafine-grained Cultrl ralloy. Wear, <b>2014</b> , 311, 149-158	3.5	78	
345	The effect of precipitates on the superelastic response of [1 0 0] oriented FeMnAlNi single crystals under compression. <i>Acta Materialia</i> , <b>2015</b> , 97, 234-244	8.4	77	
344	Long-Term Oxidation of Ti2AlC in Air and Water Vapor at 1000 1300 1300 Temperature Range. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 159, C90-C96	3.9	77	
343	A comparative study of the cytotoxicity and corrosion resistance of nickel-titanium and titanium-niobium shape memory alloys. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 2863-70	10.8	75	

342	The effect of nanoprecipitates on the superelastic properties of FeNiCoAlTa shape memory alloy single crystals. <i>Acta Materialia</i> , <b>2013</b> , 61, 3445-3455	8.4	75
341	Mechanical flow anisotropy in severely deformed pure titanium. <i>Materials Science &amp; amp;</i> Engineering A: Structural Materials: Properties, Microstructure and Processing, <b>2006</b> , 434, 294-302	5.3	73
340	Detwinning in NiTi alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2003</b> , 34, 5-13	2.3	73
339	An ultra-high strength martensitic steel fabricated using selective laser melting additive manufacturing: Densification, microstructure, and mechanical properties. <i>Acta Materialia</i> , <b>2020</b> , 186, 199-214	8.4	73
338	DFT studies on structure, mechanics and phase behavior of magnetic shape memory alloys: Ni2MnGa. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 1026-1035	1.6	72
337	Consolidation of amorphous copper based powder by equal channel angular extrusion. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 317, 144-151	3.9	72
336	Role of starting texture and deformation modes on low-temperature shear formability and shear localization of MgBAlaZn alloy. <i>Acta Materialia</i> , <b>2015</b> , 89, 408-422	8.4	71
335	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> , <b>2007</b> , 312, 164-175	2.8	71
334	Tailored thermal expansion alloys. <i>Acta Materialia</i> , <b>2016</b> , 102, 333-341	8.4	70
333	Shape memory behavior and tensionDompression asymmetry of a FeNiCoAlTa single-crystalline shape memory alloy. <i>Acta Materialia</i> , <b>2012</b> , 60, 2186-2195	8.4	70
332	Flow stress anisotropy and Bauschinger effect in ultrafine grained copper. <i>Acta Materialia</i> , <b>2006</b> , 54, 5477-5488	8.4	69
331	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> , <b>2001</b> , 32, 695-706	2.3	69
330	On the effect of gamma phase formation on the pseudoelastic performance of polycrystalline FelMnAlNi shape memory alloys. <i>Scripta Materialia</i> , <b>2015</b> , 108, 23-26	5.6	68
329	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> , <b>2003</b> , 34, 2527-2539	2.3	68
328	Stress-assisted reversible magnetic field-induced phase transformation in Ni2MnGa magnetic shape memory alloys. <i>Scripta Materialia</i> , <b>2006</b> , 55, 403-406	5.6	67
327	Size effects in the superelastic response of Ni54Fe19Ga27 shape memory alloy pillars with a two stage martensitic transformation. <i>Acta Materialia</i> , <b>2012</b> , 60, 5670-5685	8.4	66
326	Role of severe plastic deformation on the cyclic reversibility of a Ti50.3Ni33.7Pd16 high temperature shape memory alloy. <i>Acta Materialia</i> , <b>2010</b> , 58, 6411-6420	8.4	66
325	Effect of precipitation on the microstructure and the shape memory response of the Ni50.3Ti29.7Zr20 high temperature shape memory alloy. <i>Scripta Materialia</i> , <b>2013</b> , 69, 354-357	5.6	65

324	Plastic flow anisotropy of pure zirconium after severe plastic deformation at room temperature. <i>Acta Materialia</i> , <b>2009</b> , 57, 4855-4865	8.4	65
323	Compressive response of a single crystalline CoNiAl shape memory alloy. <i>Scripta Materialia</i> , <b>2004</b> , 51, 261-266	5.6	65
322	Deformation of FeNiCoTi shape memory single crystals. Scripta Materialia, 2001, 44, 779-784	5.6	65
321	Superelastic response of a single crystalline FeMnAlNi shape memory alloy under tension and compression. <i>Acta Materialia</i> , <b>2015</b> , 89, 374-383	8.4	64
320	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 &amp; Description of the Properties, Microstructure and Processing</i> , <b>2013</b> , 560, 653-666	5.3	63
319	Processing and characterization of porous Ti2AlC with controlled porosity and pore size. <i>Acta Materialia</i> , <b>2012</b> , 60, 6266-6277	8.4	63
318	Improvement in the Shape Memory Response of Ti50.5Ni24.5Pd25 High-Temperature Shape Memory Alloy with Scandium Microalloying. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2010</b> , 41, 2485-2497	2.3	63
317	Pseudoelasticity at elevated temperatures in [001] oriented Co49Ni21Ga30 single crystals under compression. <i>Scripta Materialia</i> , <b>2006</b> , 55, 663-666	5.6	63
316	Shape memory characteristics of Ti49.5Ni25Pd25Sc0.5 high-temperature shape memory alloy after severe plastic deformation. <i>Acta Materialia</i> , <b>2011</b> , 59, 4747-4760	8.4	62
315	The deformation of low-stacking-fault-energy austenitic steels. <i>Jom</i> , <b>2002</b> , 54, 31-37	2.1	62
314	Relationship between crystallographic compatibility and thermal hysteresis in Ni-rich NiTiHf and NiTiZr high temperature shape memory alloys. <i>Acta Materialia</i> , <b>2016</b> , 121, 374-383	8.4	61
313	Tensionflompression asymmetry in severely deformed pure copper. Acta Materialia, 2007, 55, 4603-461	<b>3</b> 8.4	61
312	Direct measurement of large reversible magnetic-field-induced strain in NitoMnth metamagnetic shape memory alloys. <i>Acta Materialia</i> , <b>2012</b> , 60, 6883-6891	8.4	60
311	Materials science. Expanding the repertoire of shape memory alloys. <i>Science</i> , <b>2010</b> , 327, 1468-9	33.3	60
310	Effect of commercial purity levels on the mechanical properties of ultrafine-grained titanium.  Materials Science & Microstructure and Processing , 2011, 528, 2303-2308	5.3	60
309	Effect of disperse Ti3N4 particles on the martensitic transformations in titanium nickelide single crystals. <i>Physics of Metals and Metallography</i> , <b>2008</b> , 106, 577-589	1.2	60
308	Deformation twinning in difficult-to-work alloys during severe plastic deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 410-411, 243-247	5.3	60
307	EFFECT OF AGING ON THE MARTENSITIC TRANSFORMATION CHARACTERISTICS OF A NI-RICH NITIHF HIGH TEMPERATURE SHAPE MEMORY ALLOY. <i>Functional Materials Letters</i> , <b>2012</b> , 05, 1250038	1.2	57

306	Effect of severe ausforming via equal channel angular extrusion on the shape memory response of a NiTi alloy. <i>Journal of Nuclear Materials</i> , <b>2007</b> , 361, 298-305	3.3	57
305	Multi-phase microstructure design of a low-alloy TRIP-assisted steel through a combined computational and experimental methodology. <i>Acta Materialia</i> , <b>2012</b> , 60, 3022-3033	8.4	56
304	Microstructure and martensitic transformation characteristics of CoNiGa high temperature shape memory alloys. <i>Acta Materialia</i> , <b>2011</b> , 59, 1168-1183	8.4	54
303	Dynamic precipitation in Mg-3Al-1Zn alloy during different plastic deformation modes. <i>Acta Materialia</i> , <b>2016</b> , 116, 1-13	8.4	53
302	Microstructure and mechanical properties of severely deformed powder processed TiBAlaV using equal channel angular extrusion. <i>Scripta Materialia</i> , <b>2003</b> , 49, 1021-1027	5.6	52
301	Tensile actuation response of additively manufactured nickel-titanium shape memory alloys. <i>Scripta Materialia</i> , <b>2018</b> , 146, 164-168	5.6	52
300	Influence of crystallographic compatibility on residual strain of TiNi based shape memory alloys during thermo-mechanical cycling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 574, 9-16	5.3	51
299	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> , <b>2012</b> , 43, 1884-1894	2.3	50
298	Work output of the two-way shape memory effect in Ti50.5Ni24.5Pd25 high-temperature shape memory alloy. <i>Scripta Materialia</i> , <b>2011</b> , 65, 903-906	5.6	50
297	On the fatigue crack growththicrostructure relationship in ultrafine-grained interstitial-free steel. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4813-4821	4.3	50
296	Pseudoelasticity and Cyclic Stability in Co49Ni21Ga30 Shape-Memory Alloy Single Crystals at Ambient Temperature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2008</b> , 39, 2026-2039	2.3	50
295	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> , <b>2018</b> , 35, 672-680	5	50
294	Multi-objective Bayesian materials discovery: Application on the discovery of precipitation strengthened NiTi shape memory alloys through micromechanical modeling. <i>Materials and Design</i> , <b>2018</b> , 160, 810-827	8.1	50
293	Corrosion fatigue behavior of a biocompatible ultrafine-grained niobium alloy in simulated body fluid. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 5, 181-92	4.1	49
292	Tension/compression asymmetry of functional properties in [001]-oriented ferromagnetic NiFeGaCo single crystals. <i>Intermetallics</i> , <b>2010</b> , 18, 2458-2463	3.5	49
291	Equal-channel angular sheet extrusion of interstitial-free (IF) steel: Microstructural evolution and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 6573-6583	5.3	49
290	On the fatigue behavior of ultrafine-grained interstitial-free steel. <i>International Journal of Materials Research</i> , <b>2006</b> , 97, 1328-1336	0.5	49
289	On the mechanical response and microstructure evolution of NiCoCr single crystalline medium entropy alloys. <i>Materials Research Letters</i> , <b>2018</b> , 6, 442-449	7.4	48

288	Ultra-high temperature multi-component shape memory alloys. Scripta Materialia, 2019, 158, 83-87	5.6	48	
287	Hydroxyapatite production on ultrafine-grained pure titanium by micro-arc oxidation and hydrothermal treatment. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, S537-S542	4.4	47	
286	Microstructure the chanical property relationships in ultrafine-grained NbZr. <i>Acta Materialia</i> , <b>2007</b> , 55, 6596-6605	8.4	47	
285	Strain <b>E</b> emperature behavior of NiTiCu shape memory single crystals. <i>Acta Materialia</i> , <b>2001</b> , 49, 3621-363	3 <b>8</b> .4	47	
284	Effects of crystallographic orientation on the superelastic response of FeMnAlNi single crystals. <i>Scripta Materialia</i> , <b>2016</b> , 116, 147-151	5.6	47	
283	On the microstructural origins of martensitic transformation arrest in a NiCoMnIn magnetic shape memory alloy. <i>Acta Materialia</i> , <b>2018</b> , 142, 95-106	8.4	46	
282	Cyclic degradation in bamboo-like FeMnAlNi shape memory alloys The role of grain orientation. <i>Scripta Materialia</i> , <b>2016</b> , 114, 156-160	5.6	46	
281	Effect of vanadium micro-alloying on the microstructural evolution and creep behavior of Al-Er-Sc-Zr-Si alloys. <i>Acta Materialia</i> , <b>2017</b> , 124, 501-512	8.4	46	
280	Cyclic degradation mechanisms in aged FeNiCoAlTa shape memory single crystals. <i>Acta Materialia</i> , <b>2014</b> , 79, 126-137	8.4	45	
279	Microstructural characterization and superelastic response of a Ni50.3Ti29.7Zr20 high-temperature shape memory alloy. <i>Scripta Materialia</i> , <b>2014</b> , 81, 12-15	5.6	45	
278	Comparative analysis of the effects of severe plastic deformation and thermomechanical training on the functional stability of Ti50.5Ni24.5Pd25 high-temperature shape memory alloy. <i>Scripta Materialia</i> , <b>2011</b> , 64, 315-318	5.6	45	
277	On the Microstructural Stability of Ultrafine-Grained Interstitial-Free Steel under Cyclic Loading. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2007</b> , 38, 1946-195	<del>2</del> .3	45	
276	Effect of severe plastic deformation on tensile properties and impact toughness of two-phase ZnBOAl alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 490, 403-410	5.3	45	
275	Thermoelastic martensitic transformations in single crystals with disperse particles. <i>Russian Physics Journal</i> , <b>2012</b> , 54, 937-950	0.7	44	
274	High-temperature superelasticity in CoNiGa, CoNiAl, NiFeGa, and TiNi monocrystals. <i>Russian Physics Journal</i> , <b>2008</b> , 51, 1016-1036	0.7	44	
273	Orientation dependence of twinning in single crystalline CoCrFeMnNi high-entropy alloy. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 705, 176-181	5.3	43	
272	A Sensory Material Approach for Reducing Variability in Additively Manufactured Metal Parts. <i>Scientific Reports</i> , <b>2017</b> , 7, 3604	4.9	43	
271	Multiple ferroic glasses via ordering. <i>Acta Materialia</i> , <b>2015</b> , 101, 107-115	8.4	42	

270	Direct measure of giant magnetocaloric entropy contributions in NiMnIh. <i>Acta Materialia</i> , <b>2016</b> , 105, 176-181	8.4	42
269	On The Deformation Mechanisms in Single Crystal Hadfield Manganese Steels. <i>Scripta Materialia</i> , <b>1998</b> , 38, 1009-1015	5.6	42
268	Shape memory and pseudoelasticity response of NiMnCoIn magnetic shape memory alloy single crystals. <i>Scripta Materialia</i> , <b>2008</b> , 58, 815-818	5.6	42
267	The role of heat treatment on the cyclic stressEtrain response of ultrafine-grained interstitial-free steel. <i>International Journal of Fatigue</i> , <b>2008</b> , 30, 426-436	5	42
266	Effects of cyclic heat treatment and aging on superelasticity in oligocrystalline Fe-Mn-Al-Ni shape memory alloy wires. <i>Scripta Materialia</i> , <b>2017</b> , 134, 66-70	5.6	41
265	Reduction in tensionflompression asymmetry via grain refinement and texture design in MgBAlfIZn sheets. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 610, 220-227	5.3	40
264	Effect of niobium addition on the martensitic transformation and magnetocaloric effect in low hysteresis NiCoMnSn magnetic shape memory alloys. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 231910	3.4	40
263	Determining recoverable and irrecoverable contributions to accumulated strain in a NiTiPd high-temperature shape memory alloy during thermomechanical cycling. <i>Scripta Materialia</i> , <b>2011</b> , 65, 123-126	5.6	40
262	High-temperature in-situ microscopy during stress-induced phase transformations in Co49Ni21Ga30 shape memory alloy single crystals. <i>International Journal of Materials Research</i> , <b>2010</b> , 101, 1-11	0.5	40
261	Microstructural refinement and deformation twinning during severe plastic deformation of 316L stainless steel at high temperatures. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 2268-2278	2.5	40
<b>2</b> 60	Effect of grain size on the superelastic response of a FeMnAlNi polycrystalline shape memory alloy. <i>Scripta Materialia</i> , <b>2016</b> , 125, 68-72	5.6	39
259	On the effect of titanium on quenching sensitivity and pseudoelastic response in Fe-Mn-Al-Ni-base shape memory alloy. <i>Scripta Materialia</i> , <b>2017</b> , 126, 20-23	5.6	39
258	Work production using the two-way shape memory effect in NiTi and a Ni-rich NiTiHf high-temperature shape memory alloy. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 125023	3.4	39
257	The role of coherent precipitates in martensitic transformations in single crystal and polycrystalline Ti-50.8at%Ni. <i>Scripta Materialia</i> , <b>1998</b> , 39, 699-705	5.6	39
256	Finite interface dissipation phase field modeling of Niblb under additive manufacturing conditions. <i>Acta Materialia</i> , <b>2020</b> , 185, 320-339	8.4	39
255	Experimental investigation of simultaneous creep, plasticity and transformation of Ti50.5Pd30Ni19.5 high temperature shape memory alloy during cyclic actuation. <i>Materials Science &amp; Materials Science and Processing</i> , <b>2011</b> , 530, 117-127	5.3	38
254	Monitoring the fatigue-induced damage evolution in ultrafine-grained interstitial-free steel utilizing digital image correlation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2009</b> , 517, 225-234	5.3	38
253	Nanoparticle consolidation using equal channel angular extrusion at room temperature. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 1561-1576	4.3	38

## (2003-2019)

252	Interplay between the effects of deformation mechanisms and dynamic recrystallization on the failure of Mg-3Al-1Zn. <i>Acta Materialia</i> , <b>2019</b> , 168, 448-472	8.4	37	
251	Numerical and experimental analysis of heat distribution in the laser powder bed fusion of Ti-6Al-4V. <i>IISE Transactions</i> , <b>2019</b> , 51, 136-152	3.3	36	
250	Reversible Martensitic Transformation under Low Magnetic Fields in Magnetic Shape Memory Alloys. <i>Scientific Reports</i> , <b>2017</b> , 7, 40434	4.9	35	
249	Magnetic field-induced martensitic phase transformation in magnetic shape memory alloys: Modeling and experiments. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2014</b> , 69, 33-66	5	35	
248	Effects of upper cycle temperature on the actuation fatigue response of NiTiHf high temperature shape memory alloys. <i>Acta Materialia</i> , <b>2017</b> , 138, 185-197	8.4	35	
247	Effect of grain constraint on the field requirements for magnetocaloric effect in NiCoMnSn melt-spun ribbons. <i>Journal of Applied Physics</i> , <b>2016</b> , 120,	2.5	35	
246	The effects of wide range of compositional changes on the martensitic transformation characteristics of NiTiHf shape memory alloys. <i>Scripta Materialia</i> , <b>2019</b> , 161, 78-83	5.6	35	
245	Two way shape memory effect in NiTiHf high temperature shape memory alloy tubes. <i>Acta Materialia</i> , <b>2019</b> , 163, 1-13	8.4	35	
244	Cyclic stressBtrain response and low-cycle fatigue damage in ultrafine grained copper. <i>Materials Science &amp; A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 410-411, 457-461	5.3	34	
243	Deformation of NiTiCu shape memory single crystals in compression. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2001</b> , 32, 477-489	2.3	34	
242	The effect of temperature and extrusion speed on the consolidation of zirconium-based metallic glass powder using equal-channel angular extrusion. <i>Metallurgical and Materials Transactions A:</i> Physical Metallurgy and Materials Science, <b>2004</b> , 35, 247-256	2.3	33	
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#### (2008-2009)

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6	In-Situ Characterization of Stress-Induced Martensite and Related Magnetic Domain Structure in Ni-Fe-Ga Ferromagnetic Shape Memory Alloy Single Crystals246-254
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4	The Role of Deformation Modes on Ductility and Dynamic Recrystallization Behavior of AZ31 Mg Alloy at Low Temperatures155-160
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