

Peter Mullner

List of Publications by Year in descending order

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31
papers

921
citations

623734

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526287

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31
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31
docs citations

31
times ranked

806
citing authors

#	ARTICLE	IF	CITATIONS
1	Size Effects on Magnetic Actuation in Ni-Mn-Ga Shape-Memory Alloys. <i>Advanced Materials</i> , 2011, 23, 216-232.	21.0	312
2	4D printing of net shape parts made from Ni-Mn-Ga magnetic shape-memory alloys. <i>Additive Manufacturing</i> , 2018, 21, 579-588.	3.0	89
3	Increasing Magnetoplasticity in Polycrystalline Ni-Mn-Ga by Reducing Internal Constraints through Porosity. <i>Physical Review Letters</i> , 2007, 99, 247201.	7.8	88
4	Microstructure of Magnetic Shape-Memory Alloys: Between Magnetoelasticity and Magnetoplasticity. <i>Materials Science Forum</i> , 0, 583, 43-65.	0.3	40
5	Mechanical and magnetic behavior of oligocrystalline Ni-Mn-Ga microwires. <i>Journal of Alloys and Compounds</i> , 2015, 624, 226-233.	5.5	39
6	Texture and transformation characteristics of Ni-Mn-Ga films deposited on alumina. <i>Scripta Materialia</i> , 2006, 54, 1287-1291.	5.2	32
7	Magnetic-field-induced recovery strain in polycrystalline Ni-Mn-Ga foam. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	24
8	Magnetomechanical Four-State Memory. <i>Advanced Functional Materials</i> , 2013, 23, 3995-4001.	14.9	24
9	On the role of deformation twinning in domain reorganization and grain reorientation in ferroelastic crystals. <i>Journal of Materials Research</i> , 1997, 12, 1771-1776.	2.6	23
10	Between microscopic and mesoscopic descriptions of twin-twin interaction. <i>International Journal of Materials Research</i> , 2006, 97, 205-216.	0.8	23
11	Ferromagnetic resonance properties and anisotropy of Ni-Mn-Ga thin films of different thicknesses deposited on Si substrate. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	21
12	Texture and training of magnetic shape memory foam. <i>Acta Materialia</i> , 2013, 61, 2113-2120.	7.9	20
13	Enhanced field induced martensitic phase transition and magnetocaloric effect in Ni ₅₅ Mn ₂₀ Ga ₂₅ metallic foams. <i>Intermetallics</i> , 2011, 19, 952-956.	3.9	19
14	Magnetic Shape Memory Micropump for Submicroliter Intracranial Drug Delivery in Rats. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2016, 10, .	0.7	19
15	Efficiency of Energy Harvesting in Ni-Mn-Ga Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2018, 4, 93-101.	2.2	19
16	Obtaining of Ni-Mn-Ga magnetic shape memory alloy by annealing electrochemically deposited Ga/Mn/Ni layers. <i>Thin Solid Films</i> , 2012, 522, 171-174.	1.8	15
17	Magnetic susceptibility of martensitic Ni-Mn-Ga film. <i>Journal of Applied Physics</i> , 2007, 101, 053909.	2.5	14
18	Effects of surface modifications on the fatigue life of unconstrained Ni-Mn-Ga single crystals in a rotating magnetic field. <i>Acta Materialia</i> , 2018, 155, 175-186.	7.9	13

#	ARTICLE	IF	CITATIONS
19	Fabricating Ni-Mn-Ga microtubes by diffusion of Mn and Ga into Ni tubes. <i>Intermetallics</i> , 2014, 49, 70-80.	3.9	12
20	Systematic Trends of Transformation Temperatures and Crystal Structure of Ni-Mn-Ga-Fe-Cu Alloys. <i>Shape Memory and Superelasticity</i> , 2020, 6, 97-106.	2.2	12
21	Effects of Surface Pinning, Locking and Adaption of Twins on the Performance of Magnetic Shape-Memory Alloys. <i>Materials Science Forum</i> , 0, 684, 177-201.	0.3	11
22	Key Properties of Ni ₅₀ Mn ₅₀ Ga Based Single Crystals Grown with the SLARE Technique. <i>Advanced Engineering Materials</i> , 2012, 14, 614-635.	3.5	11
23	Localized deformation in Ni-Mn-Ga single crystals. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	10
24	Sensitivity of twin boundary movement to sample orientation and magnetic field direction in Ni-Mn-Ga. <i>Acta Materialia</i> , 2020, 186, 389-395.	7.9	9
25	Geometric factors on magnetically driven actuation behaviour for polycrystalline Ni-Mn-Ga and its composites. <i>Journal of Alloys and Compounds</i> , 2013, 577, S344-S347.	5.5	6
26	Between microscopic and mesoscopic descriptions of twin-twin interaction. <i>International Journal of Materials Research</i> , 2022, 97, 205-216.	0.3	6
27	Recent Developments in Ni-Mn-Ga Foam Research. <i>Materials Science Forum</i> , 0, 635, 119-124.	0.3	4
28	Magnetic Torque in Single Crystal Ni-Mn-Ga. <i>Shape Memory and Superelasticity</i> , 2017, 3, 139-148.	2.2	3
29	Modeling magnetoelasticity and magnetoplasticity with disconnections and disclinations. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1050, 1.	0.1	2
30	Numerical Simulation of Twin-Twin Interaction in Magnetic Shape-Memory Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1090, 52601.	0.1	1
31	Characterizing Twin Structure and Magnetic Domain Structure of Ni-Mn-Ga through Atomic Force Microscopy. , 0, , 299-304.		0