

Andrey A Saren

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6956687/publications.pdf>

Version: 2024-02-01

22
papers

348
citations

840776

11
h-index

839539

18
g-index

22
all docs

22
docs citations

22
times ranked

273
citing authors

#	ARTICLE	IF	CITATIONS
1	Integratable magnetic shape memory micropump for high-pressure, precision microfluidic applications. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	50
2	Characterization of a high-resolution solid-state micropump that can be integrated into microfluidic systems. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 1255-1263.	2.2	37
3	Modeling and design of a vibration energy harvester using the magnetic shape memory effect. <i>Smart Materials and Structures</i> , 2015, 24, 095002.	3.5	26
4	Giant magnetic-field-induced strain in Ni-Mn-Ga micropillars. <i>Scripta Materialia</i> , 2018, 150, 173-176.	5.2	26
5	Ultrafast actuation of Ni-Mn-Ga micropillars by pulsed magnetic field. <i>Scripta Materialia</i> , 2019, 162, 482-485.	5.2	25
6	Pulsed magnetic field-induced single twin boundary motion in Ni ⁴⁸ Mn ⁴² Ga ¹⁰ 5M martensite: A laser vibrometry characterization. <i>Scripta Materialia</i> , 2016, 113, 154-157.	5.2	24
7	Direct observation of fast-moving twin boundaries in magnetic shape memory alloy Ni ⁴⁸ Mn ⁴² Ga ¹⁰ 5 M martensite. <i>Scripta Materialia</i> , 2016, 123, 9-12.	5.2	22
8	Dynamic twinning stress and viscous-like damping of twin boundary motion in magnetic shape memory alloy Ni-Mn-Ga. <i>Scripta Materialia</i> , 2017, 139, 126-129.	5.2	22
9	Highly mobile twin boundaries in seven-layer modulated Ni ⁴⁸ Mn ⁴² Ga ¹⁰ Fe martensite. <i>Scripta Materialia</i> , 2020, 178, 62-66.	5.2	18
10	Giant 5.8% magnetic-field-induced strain in additive manufactured Ni-Mn-Ga magnetic shape memory alloy. <i>Scripta Materialia</i> , 2022, 208, 114324.	5.2	15
11	Magnetic shape memory effect in single crystalline Ni-Mn-Ga foil thinned down to 1 $\frac{1}{4}$ μm. <i>Scripta Materialia</i> , 2017, 139, 152-154.	5.2	14
12	Laser powder bed fusion of Ni-Mn-Ga magnetic shape memory alloy. <i>Additive Manufacturing</i> , 2019, 30, 100891.	3.0	10
13	Stress-induced a/b compound twins redistribution in 10M Ni-Mn-Ga martensite. <i>Scripta Materialia</i> , 2020, 175, 11-15.	5.2	10
14	Excitonic Chemiluminescence in Si and CdSe Nanocrystals Induced by their Interaction with Ozone. <i>ChemPhysChem</i> , 2011, 12, 846-853.	2.1	9
15	Stabilization of a fine twin structure in Ni ⁴⁸ Mn ⁴² Ga ¹⁰ by a diamond-like carbon coating. <i>Scripta Materialia</i> , 2015, 106, 9-12.	5.2	8
16	Elastic and anelastic phenomena related to eddy currents in cubic Ni ₂ MnGa. <i>Scripta Materialia</i> , 2018, 147, 69-73.	5.2	8
17	Magnetic Domain Walls and Macroscopic Magnetization-Related Elastic and Anelastic Effects during Premartensitic Transition in Ni ₂ MnGa. <i>Materials</i> , 2019, 12, 376.	2.9	6
18	Ultrahigh damping and Young's modulus softening due to a/b twins in 10M Ni-Mn-Ga martensite. <i>Scripta Materialia</i> , 2020, 178, 483-488.	5.2	6

#	ARTICLE	IF	CITATIONS
19	Characterization of as-built and heat-treated Ni-Mn-Ga magnetic shape memory alloy manufactured via laser powder bed fusion. <i>Additive Manufacturing</i> , 2021, 39, 101854.	3.0	5
20	Characterizing Changes in Grain Growth, Mechanical Properties, and Transformation Properties in Differently Sintered and Annealed Binder-Jet 3D Printed 14M Ni-Mn-Ga Magnetic Shape Memory Alloys. <i>Metals</i> , 2022, 12, 724.	2.3	3
21	Auto-Aspirated DAF Sparger Study on Flow Hydrodynamics, Bubble Generation and Aeration Efficiency. <i>Processes</i> , 2020, 8, 1498.	2.8	2
22	Transitory Ultrasonic Absorption in α -Domain Engineered Structures of 10 M Ni-Mn-Ga Martensite. <i>Metals</i> , 2021, 11, 1505.	2.3	2