

# Lucie Bodnarova

## List of Publications by Year in descending order

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Version: 2024-02-01

16  
papers

283  
citations

933447

10  
h-index

1058476

14  
g-index

16  
all docs

16  
docs citations

16  
times ranked

242  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modal resonant ultrasound spectroscopy for ferroelastics. Applied Physics A: Materials Science and Processing, 2009, 96, 557-567.	2.3	55
2	Application of ultrasonic methods to determine elastic anisotropy of polycrystalline copper processed by equal-channel angular pressing. Acta Materialia, 2010, 58, 235-247.	7.9	44
3	Combined effect of structural softening and magneto-elastic coupling on elastic coefficients of Ni Mn Ga austenite. Journal of Alloys and Compounds, 2013, 577, S131-S135.	5.5	30
4	Microstructure, martensitic transformation and anomalies in $\epsilon$ -softening in Co-Ni-Al ferromagnetic shape memory alloys. Acta Materialia, 2013, 61, 5869-5876.	7.9	26
5	The effect of antiphase boundaries on the elastic properties of Ni-Mn-Ga austenite and premartensite. Journal of Physics Condensed Matter, 2013, 25, 425402.	1.8	25
6	Achieving high strength and low elastic modulus in interstitial biomedical Ti-Nb-Zr-O alloys through compositional optimization. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 839, 142833.	5.6	19
7	Elastic constants of non-modulated Ni-Mn-Ga martensite. Scripta Materialia, 2017, 136, 20-23.	5.2	18
8	Sensitivity of the resonant ultrasound spectroscopy to weak gradients of elastic properties. Journal of the Acoustical Society of America, 2012, 131, 3775-3785.	1.1	16
9	Magneto-elastic attenuation in austenitic phase of Ni-Mn-Ga alloy investigated by ultrasonic methods. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 521-522, 205-208.	5.6	15
10	Switching the soft shearing mode orientation in Ni-Mn-Ga non-modulated martensite by Co and Cu doping. Smart Materials and Structures, 2020, 29, 045022.	3.5	12
11	Softening of Shear Elastic Coefficients in Shape Memory Alloys Near the Martensitic Transition: A Study by Laser-Based Resonant Ultrasound Spectroscopy. Metals, 2020, 10, 1383.	2.3	10
12	Manufacturing of biomedical Ti alloys with controlled oxygen content by blended elemental powder metallurgy. Journal of Alloys and Compounds, 2022, 905, 164259.	5.5	6
13	Large Non-ergodic Magnetoelastic Damping in Ni-Mn-Ga Austenite. Shape Memory and Superelasticity, 2020, 6, 89-96.	2.2	4
14	Resonant ultrasound spectroscopy for investigation of thin surface coatings. WIT Transactions on Engineering Sciences, 2009, , .	0.0	2
15	<i>In Situ</i> Detection of Surface Micro-Cracking in Ultrafine-Grained AZ31 Magnesium Alloy by Resonant Ultrasound Spectroscopy. Key Engineering Materials, 0, 606, 87-90.	0.4	1
16	Novel approach to material evaluation of thin surface layers by resonant ultrasound spectroscopy. Journal of Physics: Conference Series, 2010, 214, 012045.	0.4	0