

Petr Veřtřt

List of Publications by Year in descending order

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179
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly mobile twin boundaries in seven-layer modulated Niâ€“Mnâ€“Gaâ€“Fe martensite. Scripta Materialia, 2020, 178, 62-66.	5.2	18
2	Hardness response to the stability of a Ti(+N) solid solution in an annealed TiN/Ti(+N)/Ti mixture layer formed by nitrogen ion implantation into titanium. Journal of Alloys and Compounds, 2018, 746, 490-495.	5.5	17
3	Microstructure evolution and mechanical performance of ternary Zn-0.8Mg-0.2Sr (wt. %) alloy processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 824, 141809.	5.6	17
4	Effect of crystal quality on twinning stress in Niâ€“Mnâ€“Ga magnetic shape memory alloys. Journal of Materials Research and Technology, 2021, 14, 1934-1944.	5.8	17
5	Orthorhombic intermediate phase originating from {110} nanotwinning in Ni50.0Mn28.7Ga21.3 modulated martensite. Acta Materialia, 2017, 132, 335-344.	7.9	16
6	Characterization of a Zn-Ca5(PO4)3(OH) Composite with a High Content of the Hydroxyapatite Particles Prepared by the Spark Plasma Sintering Process. Metals, 2020, 10, 372.	2.3	15
7	Low temperature a/b nanotwins in Ni50Mn25+xGa25~x Heusler alloys. Scientific Reports, 2018, 8, 11943.	3.3	14
8	Niâ€“Mnâ€“Ga Single Crystal Exhibiting Multiple Magnetic Shape Memory Effects. Shape Memory and Superelasticity, 2016, 2, 272-280.	2.2	13
9	Thermal Plasma Spraying as a New Approach for Preparation of Zinc Biodegradable Scaffolds: A Complex Material Characterization. Journal of Thermal Spray Technology, 2019, 28, 826-841.	3.1	13
10	Systematic Trends of Transformation Temperatures and Crystal Structure of Niâ€“Mnâ€“Gaâ€“Feâ€“Cu Alloys. Shape Memory and Superelasticity, 2020, 6, 97-106.	2.2	12
11	Full Variation of Site Substitution in Ni-Mn-Ga by Ferromagnetic Transition Metals. Metals, 2021, 11, 850.	2.3	12
12	Effect of electron localization in theoretical design of Ni-Mn-Ga based magnetic shape memory alloys. Materials and Design, 2021, 209, 109917.	7.0	12
13	Hysteretic structural changes within five-layered modulated 10M martensite of Niâ€“Mnâ€“Ga(â€“Fe). Journal of Physics Condensed Matter, 2021, 33, 265404.	1.8	10
14	Influence of Ceramic Particles Character on Resulted Properties of Zinc-Hydroxyapatite/Monetite Composites. Metals, 2021, 11, 499.	2.3	7
15	Microstructure and mechanical properties of the potentially biodegradable ternary system Zn-Mg0.8-Ca0.2. Procedia Structural Integrity, 2019, 23, 21-26.	0.8	6
16	Influence of the pre-exposure of a Zn-0.8Mg-0.2Sr absorbable alloy in bovine serum albumin containing media on its surface changes and their impact on the cytocompatibility of the material. Materials Today Communications, 2021, 28, 102556.	1.9	4
17	Mechanical Stabilization of Martensite in Cuâ€“Niâ€“Al Single Crystal and Unconventional Way to Detect It. Shape Memory and Superelasticity, 2018, 4, 77-84.	2.2	3
18	Microstructural characterization and optimization of the ZnMg0.8(CaO)0.26 alloy processed by ball milling and subsequent extrusion. Manufacturing Technology, 2020, 20, 484-491.	1.4	3

#	ARTICLE	IF	CITATIONS
19	Deformation twinning with different twin-boundary mobility in 2H martensite in Cuâ€“Niâ€“Al shape memory alloy. Acta Materialia, 2022, 226, 117598.	7.9	3
20	Study of 10M' Nanotwinned Phase in the Vicinity of Martensitic Transformation in Ni-Mn-Ga Magnetic Shape Memory Alloy. Acta Physica Polonica A, 2018, 134, 859-862.	0.5	2
21	Phase transition in a multiferroic Ni-Mn-Ga single crystal. Phase Transitions, 2016, 89, 752-760.	1.3	1
22	FITEXC â€“ DIFFRACTION PROFILE FITTING PROGRAM RUN IN MS EXCEL. Acta Polytechnica CTU Proceedings, 2018, 17, 20.	0.3	1
23	Ab-initio study of surface energies and structural influence of vacancies in titanium nitride nanolayer. , 2020, , .		1
24	Hysteretic structural changes within five-layered modulated 10M martensites of Niâ€“Mnâ€“Ga(â€“Fe). Acta Crystallographica Section A: Foundations and Advances, 2021, 77, C399-C399.	0.1	0