

Petr Veřtřt

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

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179
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Deformation twinning with different twin-boundary mobility in 2H martensite in Cu-Ni-Al shape memory alloy. <i>Acta Materialia</i> , 2022, 226, 117598. | 7.9 | 3 |
| 2 | Influence of Ceramic Particles Character on Resulted Properties of Zinc-Hydroxyapatite/Monetite Composites. <i>Metals</i> , 2021, 11, 499. | 2.3 | 7 |
| 3 | Hysteretic structural changes within five-layered modulated 10M martensite of Ni-Mn-Ga(Fe). <i>Journal of Physics Condensed Matter</i> , 2021, 33, 265404. | 1.8 | 10 |
| 4 | Full Variation of Site Substitution in Ni-Mn-Ga by Ferromagnetic Transition Metals. <i>Metals</i> , 2021, 11, 850. | 2.3 | 12 |
| 5 | 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. <i>Materials Today Communications</i> , 2021, 28, 102556. | 1.9 | 4 |
| 6 | Microstructure evolution and mechanical performance of ternary Zn-0.8Mg-0.2Sr (wt. %) alloy processed by equal-channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 824, 141809. | 5.6 | 17 |
| 7 | Effect of crystal quality on twinning stress in Ni-Mn-Ga magnetic shape memory alloys. <i>Journal of Materials Research and Technology</i> , 2021, 14, 1934-1944. | 5.8 | 17 |
| 8 | Effect of electron localization in theoretical design of Ni-Mn-Ga based magnetic shape memory alloys. <i>Materials and Design</i> , 2021, 209, 109917. | 7.0 | 12 |
| 9 | Hysteretic structural changes within five-layered modulated 10M martensites of Ni-Mn-Ga(Fe). <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2021, 77, C399-C399. | 0.1 | 0 |
| 10 | Highly mobile twin boundaries in seven-layer modulated Ni-Mn-Ga-Fe martensite. <i>Scripta Materialia</i> , 2020, 178, 62-66. | 5.2 | 18 |
| 11 | 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 |
| 12 | Characterization of a Zn-Ca ₅ (PO ₄) ₃ (OH) Composite with a High Content of the Hydroxyapatite Particles Prepared by the Spark Plasma Sintering Process. <i>Metals</i> , 2020, 10, 372. | 2.3 | 15 |
| 13 | Microstructural characterization and optimization of the ZnMg _{0.8} (CaO) _{0.26} alloy processed by ball milling and subsequent extrusion. <i>Manufacturing Technology</i> , 2020, 20, 484-491. | 1.4 | 3 |
| 14 | Ab-initio study of surface energies and structural influence of vacancies in titanium nitride nanolayer. , 2020, , . | | 1 |
| 15 | Thermal Plasma Spraying as a New Approach for Preparation of Zinc Biodegradable Scaffolds: A Complex Material Characterization. <i>Journal of Thermal Spray Technology</i> , 2019, 28, 826-841. | 3.1 | 13 |
| 16 | Microstructure and mechanical properties of the potentially biodegradable ternary system Zn-Mg _{0.8} -Ca _{0.2} . <i>Procedia Structural Integrity</i> , 2019, 23, 21-26. | 0.8 | 6 |
| 17 | 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. <i>Journal of Alloys and Compounds</i> , 2018, 746, 490-495. | 5.5 | 17 |
| 18 | Mechanical Stabilization of Martensite in Cu-Ni-Al Single Crystal and Unconventional Way to Detect It. <i>Shape Memory and Superelasticity</i> , 2018, 4, 77-84. | 2.2 | 3 |

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|----|--|-----|-----------|
| 19 | FITEXC – DIFFRACTION PROFILE FITTING PROGRAM RUN IN MS EXCEL. Acta Polytechnica CTU Proceedings, 2018, 17, 20. | 0.3 | 1 |
| 20 | Low temperature a/b nanotwins in Ni ₅₀ Mn _{25+x} Ga _{25-x} Heusler alloys. Scientific Reports, 2018, 8, 11943. | 3.3 | 14 |
| 21 | 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 |
| 22 | Orthorhombic intermediate phase originating from {110} nanotwinning in Ni _{50.0} Mn _{28.7} Ga _{21.3} modulated martensite. Acta Materialia, 2017, 132, 335-344. | 7.9 | 16 |
| 23 | Phase transition in a multiferroic Ni-Mn-Ga single crystal. Phase Transitions, 2016, 89, 752-760. | 1.3 | 1 |
| 24 | Ni-Mn-Ga Single Crystal Exhibiting Multiple Magnetic Shape Memory Effects. Shape Memory and Superelasticity, 2016, 2, 272-280. | 2.2 | 13 |