

Vladimir Pushin

List of Publications by Year in descending order

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83
papers

1,039
citations

394286

19
h-index

526166

27
g-index

83
all docs

83
docs citations

83
times ranked

628
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Mechanical Behavior and Structural Characterization of a Cu-Al-Ni-Based Shape-Memory Alloy Subjected to Isothermal Uniaxial Megaplastic Compression. <i>Materials</i> , 2022, 15, 3713. | 1.3 | 4 |
| 2 | Transmutation of a part of the extracted material of brass electrodes with pulses of electric current in an aqueous solution of NaCl. <i>Letters on Materials</i> , 2020, 10, 66-71. | 0.2 | 2 |
| 3 | The concept of quasineutrons and the synthesis of zinc from the extraction of a part of the material of copper electrodes during electric current discharges in an aqueous solution of NaCl. <i>Letters on Materials</i> , 2020, 10, 486-490. | 0.2 | 0 |
| 4 | Design and Development of Ti-Ni, Ni-Mn-Ga and Cu-Al-Ni-based Alloys with High and Low Temperature Shape Memory Effects. <i>Materials</i> , 2019, 12, 2616. | 1.3 | 28 |
| 5 | Structure, phase transformations and properties of the TiNi-TiCu alloys subjected to high pressure torsion. <i>Materials Today: Proceedings</i> , 2017, 4, 4846-4850. | 0.9 | 2 |
| 6 | Features of the mechanical behavior of ultrafine-grained and nanostructured TiNi alloys. <i>Materials Today: Proceedings</i> , 2017, 4, 4825-4829. | 0.9 | 19 |
| 7 | Effect of titanium alloying on the structure, the phase composition, and the thermoelastic martensitic transformations in ternary Ni-Mn-Ti alloys. <i>Technical Physics</i> , 2015, 60, 1330-1334. | 0.2 | 7 |
| 8 | Specific Features of the Phase Composition and Structure of a High-Strength Multi-Component Fe-W-Mo-Cr-V-Si-Mn-C Steel Synthesized via Laser Remelting. <i>Advanced Engineering Materials</i> , 2015, 17, 1504-1510. | 1.6 | 3 |
| 9 | Magnetic and structural phase transitions and the tetragonality of thermoelastic martensite in quasi-binary Heusler alloys $Ni_2 + x Mn_1 \hat{\wedge} x Ga$. <i>Physics of the Solid State</i> , 2015, 57, 45-52. | 0.2 | 4 |
| 10 | Effect of aluminum alloying on the structure, the phase composition, and the thermoelastic martensitic transformations in ternary Ni-Mn-Al alloys. <i>Technical Physics</i> , 2015, 60, 1000-1004. | 0.2 | 5 |
| 11 | Structural and phase transformations in quasi-binary TiNi-TiCu alloys with thermomechanical shape-memory effects. <i>Physics of Metals and Metallography</i> , 2015, 116, 1221-1233. | 0.3 | 8 |
| 12 | Peculiar features of physical properties of the rapid quenched AlCrFeCoNiCu high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2015, 636, 304-309. | 2.8 | 21 |
| 13 | Specific features of magnetic properties upon martensitic transition $M \hat{\wedge} L21$ in $Ni_2 + x Mn_1 \hat{\wedge} x Ga$ alloys. <i>Physics of the Solid State</i> , 2015, 57, 316-319. | 0.2 | 2 |
| 14 | Peculiarities of the phase composition and structure of the high-entropy FeWMoCrVSiMnC multicomponent steel. <i>Technical Physics</i> , 2015, 60, 1088-1092. | 0.2 | 2 |
| 15 | Evolution of the amorphous structure in melt-spun Ti50Ni25Cu25 alloy subjected to high pressure torsion deformation. <i>Intermetallics</i> , 2015, 66, 77-81. | 1.8 | 17 |
| 16 | Structure and mechanical properties of aging Al-Li-Cu-Zr-Sc-Ag alloy after severe plastic deformation by high-pressure torsion. <i>Physics of Metals and Metallography</i> , 2015, 116, 346-355. | 0.3 | 14 |
| 17 | Comparative study of structure formation and mechanical behavior of age-hardened Ti-Nb-Zr and Ti-Nb-Ta shape memory alloys. <i>Materials Characterization</i> , 2015, 103, 65-74. | 1.9 | 44 |
| 18 | Effect of annealing on the structure and properties of Al-Li-Cu-Zr-Sc-Ag alloy subjected to severe plastic deformation. <i>Physics of Metals and Metallography</i> , 2015, 116, 932-941. | 0.3 | 7 |

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|----|--|-----|-----------|
| 19 | Structure and physical properties of the high-entropy AlCrFeCoNiCu alloy rapidly quenched from the melt. <i>Physics of the Solid State</i> , 2015, 57, 1616-1626. | 0.2 | 7 |
| 20 | Localization of uranium in radiation-damaged nanoheterogeneous natural zircon. <i>Glass Physics and Chemistry</i> , 2015, 41, 389-397. | 0.2 | 2 |
| 21 | Structure of aging Al-Li-Cu-Zr-Sc-Ag alloy after severe plastic deformation and long-term storage. <i>Physics of Metals and Metallography</i> , 2015, 116, 1108-1115. | 0.3 | 5 |
| 22 | Effect of Low-Temperature Thermomechanical Treatment on the Structure and Mechanical, Fatigue and Corrosion Characteristics of Sheets from an Alloy of the Al-Mg-Si-Cu-Zn System. <i>Metal Science and Heat Treatment</i> , 2014, 56, 416-419. | 0.2 | 0 |
| 23 | Peculiarities of the Rheological Behavior for the Al-Mg-Sc-Zr Alloy Under High-Temperature Deformation. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 4271-4277. | 1.2 | 10 |
| 24 | High-entropy equiatomic AlCrFeCoNiCu alloy: Hypotheses and experimental data. <i>Technical Physics</i> , 2014, 59, 211-223. | 0.2 | 25 |
| 25 | Structure and phase transformations in TiNiFe ternary alloys subjected to plastic deformation by high-pressure torsion and subsequent heat treatment. <i>Physics of Metals and Metallography</i> , 2014, 115, 365-379. | 0.3 | 8 |
| 26 | Formation of nanostructured states in ternary TiNiFe-based shape memory alloys during megaplastic deformation and subsequent heat treatment. <i>Technical Physics</i> , 2014, 59, 685-691. | 0.2 | 2 |
| 27 | Microstructure and properties of melt-quenched TiNi-based alloys. <i>Technical Physics Letters</i> , 2014, 40, 449-451. | 0.2 | 6 |
| 28 | Microstructure features of high-entropy equiatomic cast AlCrFeCoNiCu alloys. <i>Physics of Metals and Metallography</i> , 2013, 114, 514-520. | 0.3 | 17 |
| 29 | Specific features of cast high-entropy AlCrFeCoNiCu alloys produced by ultrarapid quenching from the melt. <i>Physics of Metals and Metallography</i> , 2013, 114, 503-513. | 0.3 | 18 |
| 30 | Effect of heat treatment on structural and phase transformations in the Ti _{49.5} Ni _{50.5} alloy amorphized by high-pressure torsion. <i>Physics of Metals and Metallography</i> , 2013, 114, 488-502. | 0.3 | 5 |
| 31 | High-temperature shape memory effect and the B2-L10 thermoelastic martensitic transformation in Ni-Mn intermetallics. <i>Technical Physics</i> , 2013, 58, 878-887. | 0.2 | 15 |
| 32 | Effect of deviations of composition from the quasi-binary section TiNi-TiCu on structural and phase transformations in rapidly quenched alloys. <i>Physics of Metals and Metallography</i> , 2013, 114, 692-702. | 0.3 | 10 |
| 33 | On the effect of cobalt doping on thermoelastic martensitic transformations in ferromagnetic Heusler Ni _{50-x} Co _x Mn ₂₉ Ga ₂₁ magnetically controlled shape memory alloys. <i>Technical Physics Letters</i> , 2013, 39, 737-740. | 0.2 | 2 |
| 34 | Effect of cobalt doping on thermoelastic martensitic transformations and physical properties of magnetic shape memory alloys Ni _{50-x} Co _x Mn ₂₉ Ga ₂₁ . <i>Physics of the Solid State</i> , 2013, 55, 2413-2421. | 0.2 | 7 |
| 35 | Crystal structure and physical properties of magnetic shape memory alloys Ni _{50-x} Cu _x Mn ₂₉ Ga ₂₁ . <i>Physics of the Solid State</i> , 2013, 55, 2471-2478. | 0.2 | 6 |
| 36 | Electrical properties of ferromagnetic Ni ₂ MnGa and Co ₂ CrGa Heusler alloys. <i>Journal of Experimental and Theoretical Physics</i> , 2013, 117, 121-125. | 0.2 | 16 |

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|----|--|-----|-----------|
| 37 | Structure, Phase Transformations and Properties of Rapidly Quenched Ti ₂ NiCu Alloys. Materials Science Forum, 2013, 738-739, 321-325. | 0.3 | 2 |
| 38 | Structure and Properties of Ti-19.7Nb-5.8Ta Shape Memory Alloy Subjected to Thermomechanical Processing Including Aging. Journal of Materials Engineering and Performance, 2013, 22, 2656-2664. | 1.2 | 23 |
| 39 | Thermo- and Deformation Induced Martensitic Transformations in Binary TiNi-Based Alloys Subjected to Severe Plastic Deformation. Materials Science Forum, 2013, 738-739, 530-534. | 0.3 | 3 |
| 40 | Microstructure and Mechanical Properties of the SPD-Processed TiNi Alloys. Materials Science Forum, 2013, 738-739, 486-490. | 0.3 | 12 |
| 41 | Mechanical behavior of nanocrystalline TiNi alloy produced by severe plastic deformation. Journal of Materials Science, 2012, 47, 7848-7853. | 1.7 | 41 |
| 42 | Effect of the deviation of the chemical composition from the stoichiometric composition on the structural and phase transformations and properties of rapidly quenched Ti ₅₀ + x Ni ₂₅ - x Cu ₂₅ alloys. Physics of Metals and Metallography, 2012, 113, 283-294. | 0.3 | 16 |
| 43 | Effect of storage on the stability of the grained structure and phase transformations in the nanocrystalline alloy 1450 doped with Sc and Mg. Physics of Metals and Metallography, 2012, 113, 867-877. | 0.3 | 11 |
| 44 | Effect of the megaplastic torsion deformation on the heat capacity of the Ni ₂ MnGa alloy. Physics of the Solid State, 2012, 54, 2128-2131. | 0.2 | 9 |
| 45 | Baroelastic shape memory effects in titanium nickelide alloys subjected to plastic deformation under high pressure. Technical Physics, 2012, 57, 1106-1114. | 0.2 | 10 |
| 46 | Structural transformations and wear resistance of titanium nickelide under conditions of sliding friction at a cryogenic (196 Å°C) temperature. Physics of Metals and Metallography, 2012, 113, 82-92. | 0.3 | 0 |
| 47 | Microstructure of nanocrystalline PbS powders and films. Inorganic Materials, 2012, 48, 21-27. | 0.2 | 24 |
| 48 | Phase and structural transformations in the Ti _{49.5} Ni _{50.5} alloy with a shape-memory effect during torsion under high pressure. Physics of Metals and Metallography, 2012, 113, 256-270. | 0.3 | 20 |
| 49 | Formation of nanocrystalline structure in the amorphous Ti ₅₀ Ni ₂₅ Cu ₂₅ alloy upon severe thermomechanical treatment and the size effect of the thermoelastic martensitic B2 - B19 transformation. Physics of Metals and Metallography, 2012, 113, 271-282. | 0.3 | 24 |
| 50 | Modification of the titanium nickelide surface using frictional treatment and subsequent heating in air. Physics of Metals and Metallography, 2012, 113, 629-636. | 0.3 | 6 |
| 51 | Effect of plastic deformation by torsion on the heat capacity of the Ni _{50.5} Ti _{49.5} alloy. Physics of the Solid State, 2012, 54, 883-885. | 0.2 | 7 |
| 52 | Effect of alloying additions and atomic disordering on the physical properties of magnetic Ni ₂ MnGa-based shape memory alloys. Technical Physics, 2012, 57, 207-213. | 0.2 | 5 |
| 53 | Crystal-structural features of pretransition phenomena and thermoelastic martensitic transformations in alloys of nonferrous metals. Physics of Metals and Metallography, 2011, 111, 165-189. | 0.3 | 21 |
| 54 | Effect of frictional heating on the surface-layer structure and tribological properties of titanium nickelide. Physics of Metals and Metallography, 2011, 112, 290-300. | 0.3 | 8 |

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|----|---|-----|-----------|
| 55 | Effect of magnetic field on the morphology and fine structure of low-temperature martensite phase in a ferromagnetic Ni _{2.08} Mn _{0.96} Ga _{0.96} alloy. <i>Physics of Metals and Metallography</i> , 2011, 112, 488-494. | 0.3 | 2 |
| 56 | Effect of severe plastic deformation by torsion on the properties and structure of the Ni ₅₄ Mn ₂₁ Ga ₂₅ and Ni ₅₄ Mn ₂₀ Fe ₁ Ga ₂₅ alloys. <i>Physics of the Solid State</i> , 2011, 53, 91-99. | 0.2 | 22 |
| 57 | Effect of plastic deformation on physical properties and structure of the shape memory alloy Ti _{49.5} Ni _{50.5} . <i>Physics of the Solid State</i> , 2011, 53, 1397-1403. | 0.2 | 4 |
| 58 | Effect of severe plastic deformation on the electronic properties of the Cu ₇₂ Au ₂₄ Ag ₄ alloy. <i>Physics of the Solid State</i> , 2010, 52, 12-17. | 0.2 | 2 |
| 59 | Effect of severe plastic deformation on the properties of the Pt ₃ Fe antiferromagnet. <i>Physics of the Solid State</i> , 2010, 52, 317-322. | 0.2 | 3 |
| 60 | Actuators based on composite material with shape-memory effect. <i>Journal of Communications Technology and Electronics</i> , 2010, 55, 818-830. | 0.2 | 38 |
| 61 | An enhanced composite scheme of shape memory actuator for smart systems. <i>Physics Procedia</i> , 2010, 10, 58-64. | 1.2 | 32 |
| 62 | Effect of Severe Plastic Deformation by Torsion on Structure and Properties of Ni ₅₄ Mn ₂₁ Ga ₂₅ and Ni ₅₄ Mn ₂₀ Fe ₁ Ga ₂₅ . <i>Solid State Phenomena</i> , 2010, 168-169, 553-556. | 0.3 | 0 |
| 63 | Imprinting Bias Stress in Functional Composites. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 100212. | 0.8 | 5 |
| 64 | Microstructure and Magnetic Hysteresis in Nanocrystalline Nd-Fe-Co-B Alloys on the Base of Nd ₂ Fe ₁₄ B Phase. <i>Solid State Phenomena</i> , 2010, 168-169, 420-423. | 0.3 | 4 |
| 65 | Low temperature kinetic properties and structure of Ni _{50+x} Mn _{25-x+y} Ga _{25-y} alloys with shape memory. <i>Journal of Physics: Conference Series</i> , 2009, 150, 022054. | 0.3 | 3 |
| 66 | Mechanical properties of the nanocrystalline Ti _{49.4} Ni _{50.6} alloy, produced by High Pressure Torsion. <i>European Physical Journal: Special Topics</i> , 2008, 158, 53-58. | 1.2 | 7 |
| 67 | Low-temperature properties of magnetic Ni _{50+x} Mn _{25-x+y} Ga _{25-y} shape memory alloys. <i>Physics of the Solid State</i> , 2008, 50, 2127-2132. | 0.2 | 7 |
| 68 | New composite shape memory functional material for nano and microengineering application. , 2008, , . | | 3 |
| 69 | Nanostructuring of TiNi Alloy by SPD Processing for Advanced Properties. <i>Materials Transactions</i> , 2008, 49, 97-101. | 0.4 | 68 |
| 70 | Electronic properties of strain-disordered Ni _{2.16} Mn _{0.84} Ga alloy. <i>Physics of the Solid State</i> , 2007, 49, 1773-1779. | 0.2 | 6 |
| 71 | Structural State and Magnetic Properties of Nd ₂ Fe ₁₄ B-Type Rapidly Quenched Alloys. <i>Journal of Iron and Steel Research International</i> , 2006, 13, 199-204. | 1.4 | 0 |
| 72 | SPD-Induced Nanocrystallization of Shape Memory Ni ₂ MnGa-Based and NiTi-Based Alloys Quenched from Liquid State. <i>Materials Science Forum</i> , 2006, 503-504, 545-550. | 0.3 | 8 |

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|----|--|-----|-----------|
| 73 | Severe Plastic Deformation of Melt-Spun Shape Memory Ti ₂ NiCu and Ni ₂ MnGa Alloys. Materials Transactions, 2006, 47, 546-549. | 0.4 | 25 |
| 74 | Effect of Severe Plastic Deformation on the Behavior of Ti–Ni Shape Memory Alloys. Materials Transactions, 2006, 47, 694-697. | 0.4 | 45 |
| 75 | Effect of Equal Channel Angular Pressing and Repeated Rolling on Structure, Phase Transformations and Properties of TiNi Shape Memory Alloys. Materials Science Forum, 2006, 503-504, 539-544. | 0.3 | 25 |
| 76 | Metastable Nanostructured SPD Ti-Ni Alloys with Unique Properties. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 7-12. | 0.1 | 17 |
| 77 | The use of severe deformations for preparing bulk nanocrystalline materials from amorphous alloys. Doklady Physics, 2004, 49, 519-521. | 0.2 | 20 |
| 78 | The Nanostructured TiNi Shape-Memory Alloys: New Properties and Applications. Solid State Phenomena, 2003, 94, 13-24. | 0.3 | 39 |
| 79 | Processing of nanostructured TiNi-shape memory alloys: Methods, structures, properties, application. European Physical Journal Special Topics, 2003, 112, 659-662. | 0.2 | 21 |
| 80 | Recrystallization of deformed single crystals of iridium. Scripta Materialia, 1999, 42, 209-212. | 2.6 | 3 |
| 81 | Bimodal size distribution of Ti ₃ Ni ₄ particles and martensitic transformations in slowly cooled nickel-rich TiNi alloys. Scripta Materialia, 1997, 37, 79-84. | 2.6 | 16 |
| 82 | Mechanical Behavior and Stress-Induced Martensitic Transformation in Nanocrystalline Ti _{49.4} Ni _{50.6} Alloy. Materials Science Forum, 0, 584-586, 470-474. | 0.3 | 17 |
| 83 | Effect of Equal Channel Angular Pressing and Repeated Rolling on Structure, Phase Transformations and Properties of TiNi Shape Memory Alloys. Materials Science Forum, 0, , 539-544. | 0.3 | 5 |