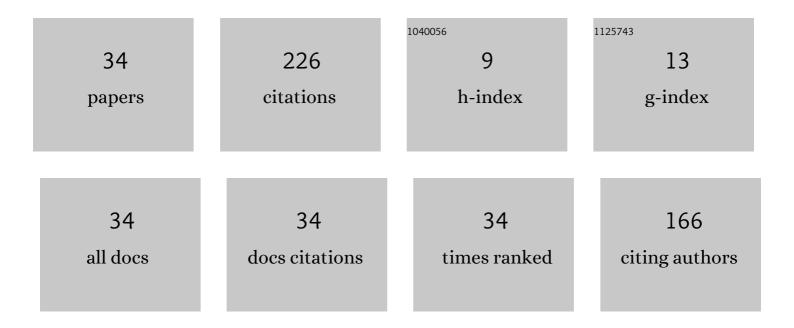
Sergey Smirnov

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| 1 | Low temperature micromechanical properties of nanocrystalline CoCrFeNiMn high entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 828, 142116. | 5.6 | 8 |
| 2 | Plastic Flow of Solid 4He and 3He at Low Temperatures (Review Article). Low Temperature Physics, 2019, 45, 964-974. | 0.6 | 0 |
| 3 | Novel features of pressure relaxation in nonequilibrium helium crystals. Low Temperature Physics, 2018, 44, 938-945. | 0.6 | 0 |
| 4 | Computer modeling and analytical description of structural defects in two-dimensional crystals of bounded sizes: Free boundary, dislocations, and crowdions. Low Temperature Physics, 2018, 44, 688-695. | 0.6 | 4 |
| 5 | Pressure relaxation and diffusion of vacancies in rapidly grown helium crystals. Low Temperature Physics, 2018, 44, 304-316. | 0.6 | 4 |
| 6 | Tunneling-thermally activated vacancy diffusion mechanism in quantum crystals. Low Temperature Physics, 2017, 43, 1163-1171. | 0.6 | 1 |
| 7 | Plastic flow of solid 3He through a porous elastic film. Low Temperature Physics, 2016, 42, 1075-1093. | 0.6 | 7 |
| 8 | Dislocations and crowdions in two-dimensional crystals. Part III: Plastic deformation of the crystal as a result of defect movement and defect interaction with the field of elastic stresses. Low Temperature Physics, 2016, 42, 207-218. | 0.6 | 17 |
| 9 | Thermally activated and quantum plasticity of solid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mpresc /><mml:none></mml:none><mml:mn>3</mml:mn></mml:mpresc </mml:mmultiscripts>at temperatures below 0.5 K. Physical Review B, 2015, 92, .</mml:math | ripts 3.2 | 14 |
| 10 | Dislocations and crowdions in two-dimensional crystals. II. Elastic fields and intrinsic energies in a 2D hexagonal lattice. Low Temperature Physics, 2015, 41, 207-212. | 0.6 | 3 |
| 11 | Creep in solid 4He at temperatures below 1 K. Low Temperature Physics, 2015, 41, 169-176. | 0.6 | 12 |
| 12 | Experimental investigation and comparative analysis of Ni-18.75 at. % Fe alloy plasticity, in coarse-grained and nano-crystalline states in the 4.2–350 K temperature range. Low Temperature Physics, 2014, 40, 1104-1111. | 0.6 | 6 |
| 13 | Dislocations and crowdions in two-dimensional crystals. I. Atomic-lattice models and a continuum description of these defects in elastic anisotropic 2D media. Low Temperature Physics, 2014, 40, 1063-1076. | 0.6 | 5 |
| 14 | Temperature dependent mechanical properties and thermal activation plasticity of nanocrystalline and coarse grained Ni-18.75 at.% Fe alloy. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012105. | 0.6 | 8 |
| 15 | Variation of the deformation mechanisms in a nanocrystalline Pd–10at.% Au alloy at room and cryogenic temperatures. International Journal of Plasticity, 2014, 60, 40-57. | 8.8 | 14 |
| 16 | The mechanics of 2D crystals: A change from the atomic-lattice description to equations of the elasticity theory. Low Temperature Physics, 2013, 39, 534-545. | 0.6 | 6 |
| 17 | Thermal activation plasticity of nanocrystalline Ni–18.75 at. % Fe alloy in temperature range 4.2–350 K. Low Temperature Physics, 2012, 38, 239-247. | 0.6 | 16 |
| 18 | Strain hardening and microstructure evolution during uniaxial compression of ultrafine grained zirconium at temperatures of 4.2–300 K. Low Temperature Physics, 2011, 37, 609-617. | 0.6 | 8 |

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| # | Article | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Strain-Rate Sensitivity and Failure Peculiarities in Compression of the Nanocrystalline Ni-20ÂPct Fe Alloy at Low Temperatures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 848-853. | 2.2 | 6 |
| 20 | Anomalous decrease of propagation rate of the macroscopic shear band in the Zr-based bulk metallic glasses at temperatures 170 and 77K. Journal of Alloys and Compounds, 2010, 495, 345-347. | 5.5 | 3 |
| 21 | Mechanical characteristics, failure regularities, and dimple structures on failure surfaces of Ti–6Al–4V â€~ELl' ultrafine-grained alloy at temperatures from 300 to 4.2K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 503, 106-109. | 5.6 | 10 |
| 22 | Mechanical properties of nanocrystalline Ni-20%Fe alloy at temperatures from 300 to 4.2K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 503, 110-113. | 5.6 | 9 |
| 23 | Crowdions in elasticity theory. Crystallography Reports, 2009, 54, 985-992. | 0.6 | 2 |
| 24 | Microstructure features of failure and mechanical properties of ultra-fine grained Ti–6AL–4V ELI alloy at 300–77ÂK. International Journal of Mechanics and Materials in Design, 2008, 4, 189-195. | 3.0 | 4 |
| 25 | Microstructural features of failure surfaces and low-temperature mechanical properties of Ti-6Al-4V ELI ultra-fine grained alloy. Strength of Materials, 2008, 40, 71-74. | 0.5 | 2 |
| 26 | Temperature-dependent mechanical behavior of a nanostructured Ni–Fe alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 493, 93-96. | 5.6 | 18 |
| 27 | Mechanical properties of ultrafine-grain zirconium in the temperature range 4.2–300K. Low Temperature Physics, 2008, 34, 969-975. | 0.6 | 11 |
| 28 | Low-temperature plasticity anomaly in the bulk metallic glass Zr64.13Cu15.75Ni10.12Al10. Low Temperature Physics, 2008, 34, 675-677. | 0.6 | 19 |
| 29 | Acoustic resonances of relaxation nature in CsI single crystals in the temperature range 2–20K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 151-155. | 5.6 | 0 |
| 30 | High-frequency polariton waves on a metal–vacuum interface. Low Temperature Physics, 2005, 31, 77-84. | 0.6 | 0 |
| 31 | Fractional and split crowdions in complex crystal structures. Low Temperature Physics, 2001, 27, 233-244. | 0.6 | 4 |
| 32 | Crowdions in atomic cryocrystals and metals with fcc and bcc lattices. Low Temperature Physics, 2001, 27, 958-966. | 0.6 | 3 |
| 33 | Title is missing!. European Physical Journal D, 1999, 49, 1091-1096. | 0.4 | 1 |
| 34 | Internal friction peak in CsI single crystal at liquid helium temperatures. Low Temperature Physics, 1998, 24, 904-907. | 0.6 | 1 |