

# Sergey Vasiliev

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2746805/publications.pdf>

Version: 2024-02-01

51  
papers

337  
citations

1163117

8  
h-index

888059

17  
g-index

51  
all docs

51  
docs citations

51  
times ranked

368  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of transient nucleation behavior on thermal stability of Fe <sub>48</sub> Co <sub>32</sub> P <sub>14</sub> B <sub>6</sub> metallic glass. Journal of Alloys and Compounds, 2021, 869, 159285.	5.5	1
2	Fabrication of consolidated layered samples by high-pressure torsion processing of rapidly solidified Al-based ribbons with amorphous and crystalline structures. Materials Today Communications, 2020, 24, 101080.	1.9	2
3	A comparison of the transient behavior of nucleation in Fe <sub>40</sub> Co <sub>40</sub> P <sub>14</sub> B <sub>6</sub> and Fe <sub>40</sub> Ni <sub>40</sub> P <sub>14</sub> B <sub>6</sub> metallic glasses. Journal of Alloys and Compounds, 2020, 824, 153926.	5.5	6
4	Effective Diffusion Coefficients and Thermal Stability of the Structure of Metallic Glass Fe <sub>48</sub> Co <sub>32</sub> P <sub>14</sub> B <sub>6</sub> . Physics of the Solid State, 2020, 62, 2258-2265.	0.6	2
5	Correlation between parameters of Arrhenius-type temperature dependency for effective diffusivity governing glass crystallization. Journal of Non-Crystalline Solids, 2019, 518, 36-42.	3.1	5
6	Crystallization kinetics of the Fe <sub>40</sub> Ni <sub>40</sub> P <sub>14</sub> B <sub>6</sub> metallic glass in an extended range of heating rates. Journal of Materials Science, 2019, 54, 5788-5801.	3.7	8
7	Analysis of the transient behavior of nucleation in the Fe <sub>40</sub> Ni <sub>40</sub> P <sub>14</sub> B <sub>6</sub> glass. Journal of Alloys and Compounds, 2018, 744, 141-145.	5.5	11
8	Identification of the onset crystallization time in metallic glasses at isothermal conditions. Journal of Non-Crystalline Solids, 2017, 463, 102-107.	3.1	7
9	Relation between the structural parameters of metallic glasses at the onset crystallization temperatures and threshold values of the effective diffusion coefficients. Physics of Metals and Metallography, 2017, 118, 764-772.	1.0	4
10	Threshold Field for Runaway Instability of Bilayer Hard Type-II Superconductor. Journal of Low Temperature Physics, 2015, 179, 75-82.	1.4	2
11	Stability of Bilayer Superconductors against Thermomagnetic Avalanche. Acta Physica Polonica A, 2014, 126, A-84-A-88.	0.5	3
12	Energy Absorption by a Single Abrikosov's Vortex in NbTi and YBaCuO Superconductors. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2033-2036.	1.8	4
13	Boundaries of the critical state stability in a hard superconductor Nb <sub>3</sub> Al in the H-T plane. Low Temperature Physics, 2013, 39, 329-337.	0.6	0
14	Oscillating modes of a massive single vortex line in an anisotropic superconductor: The role of temperature. Low Temperature Physics, 2013, 39, 102-106.	0.6	2
15	The influence of crystal anisotropy on the critical state stability and flux jump dynamics of a single crystal of La <sub>1.85</sub> Sr <sub>0.15</sub> CuO <sub>4</sub> . Superconductor Science and Technology, 2012, 25, 035005.	3.5	4
16	Fine Structure of Thermal Runaway Process in the V <sub>3</sub> Si Single-crystal Superconductor as a Result of Pinning Center Response. Physics Procedia, 2012, 36, 634-637.	1.2	3
17	Critical State Stability and Flux Jumps' Dynamics in a Single Crystal of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Acta Physica Polonica A, 2012, 121, 836-840.	0.5	1
18	Mechanisms of magnetic and temperature hysteresis in ErFeO <sub>3</sub> and TmFeO <sub>3</sub> single crystals. Journal of Applied Physics, 2010, 108, .	2.5	23

#	ARTICLE	IF	CITATIONS
19	The Influence of Magnetic History on the Stability of Critical State and the Dynamics of Flux Jumps in Conventional NbTi Superconductor. Acta Physica Polonica A, 2010, 118, 343-345.	0.5	2
20	The Influence of the Magnetic Field on the Dynamics of the Flux Jumps in the Flux Flow Model. Acta Physica Polonica A, 2010, 118, 340-342.	0.5	1
21	The Reversal of the Local Magnetic Field Profile at the Surface of Superconducting Sample Caused by the Thermomagnetic Avalanche. Journal of Low Temperature Physics, 2009, 154, 55-67.	1.4	4
22	Two components of the magnetostriction of the crystalline metallic V3Si superconductor. Journal of Applied Physics, 2009, 105, 063918.	2.5	5
23	The Influence of the Sample Shape on the Flux Jumps Dynamics in Conventional NbTi Superconductor. Acta Physica Polonica A, 2008, 114, 235-241.	0.5	2
24	Spin wave interferometer employing a local nonuniformity of the effective magnetic field. Journal of Applied Physics, 2007, 101, 113919.	2.5	80
25	The critical state instability in Nb3Al: Experiment and simulation. Physica C: Superconductivity and Its Applications, 2007, 460-462, 768-769.	1.2	0
26	Dynamical transformation of the critical state caused by the thermomagnetic avalanches. Physica C: Superconductivity and Its Applications, 2007, 460-462, 776-777.	1.2	3
27	Dynamics of single vortex line in the field of external alternative current. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1198-1199.	1.2	1
28	The magnetic field dependence of effective resistivity in a conventional superconductor: Contactless measurements. Physica C: Superconductivity and Its Applications, 2007, 460-462, 854-855.	1.2	0
29	Dynamics of Thermomagnetic Avalanches in Melt-Textured YBaCuO Superconductors. Acta Physica Polonica A, 2007, 111, 153-158.	0.5	1
30	Orientation phase transition in Fe3BO6: Experimental determination of the order of the transition. Physical Review B, 2006, 74, .	3.2	11
31	Coercive field of Fe3BO6.., 2006, , .		0
32	Size Effect in Impedance of Nb<sub>3</sub>Al Superconductor. Acta Physica Polonica A, 2006, 109, 555-559.	0.5	2
33	Giant Magnetostriction Jumps in Conventional NbTi Superconductor. Acta Physica Polonica A, 2006, 109, 633-639.	0.5	2
34	Oscillating Dynamics and Trajectory of the Single Vortex Line. Acta Physica Polonica A, 2006, 109, 641-646.	0.5	6
35	The Structure of Thermomagnetic Avalanches in Superconducting Disc of NbTi. Acta Physica Polonica A, 2006, 109, 661-668.	0.5	3
36	Giant magnetostriction and flux jumps in superconducting Nb3Al polycrystalline slab. Journal of Low Temperature Physics, 2005, 139, 239-246.	1.4	1

#	ARTICLE	IF	CITATIONS
37	Giant Magnetostriction and Flux Jumps in Superconducting Nb <sub>3</sub> Al Polycrystalline Slab. Journal of Low Temperature Physics, 2005, 139, 239-246.	1.4	6
38	Three terminal capacitance technique for magnetostriction and thermal expansion measurements. Review of Scientific Instruments, 2004, 75, 2192-2196.	1.3	30
39	The Influence of Fast Neutron Irradiation on the Magnetostriction of Ceramic YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> Sample. Acta Physica Polonica A, 2004, 106, 739-744.	0.5	2
40	Moderation of the Flux Jumps Dynamics by Eddy-Currents in a Disk Shape NbTi Superconductor. Acta Physica Polonica A, 2004, 106, 777-783.	0.5	3
41	Magnetoelastic Properties of La <sub>0.744</sub> Ba <sub>0.186</sub> MnO <sub>3</sub> Single Crystals. Acta Physica Polonica A, 2004, 105, 155-162.	0.5	0
42	Title is missing!. Journal of Low Temperature Physics, 2003, 130, 425-433.	1.4	7
43	Flux Jumps and H-T Diagram of Instability for MgB <sub>2</sub> . Journal of Low Temperature Physics, 2003, 130, 175-191.	1.4	41
44	The Structure of Magnetic Avalanches: Experiment and Model for Avalanche Vortex Matter Penetration. Journal of Low Temperature Physics, 2003, 130, 165-174.	1.4	4
45	Pinning induced magnetostriction in superconductive MgB <sub>2</sub> ceramics. Physica Status Solidi A, 2003, 196, 82-85.	1.7	0
46	The correlation between the transverse and longitudinal magnetostriction in a polycrystalline MgB <sub>2</sub> superconductor. Superconductor Science and Technology, 2003, 16, 707-713.	3.5	9
47	Excitation of oscillations of the magnetic induction in a Nb-Ti slab as a result of a thermomagnetic flux avalanche. Low Temperature Physics, 2002, 28, 387-390.	0.6	1
48	Magnetostriction in superconducting MgB <sub>2</sub> . Physica B: Condensed Matter, 2002, 319, 286-292.	2.7	11
49	Oscillation mode in the screening properties of Nb-Ti plate as a result of flux jumps. Physica C: Superconductivity and Its Applications, 2002, 369, 77-81.	1.2	4
50	The structure of vortex matter avalanches in a niobium plate. Physica C: Superconductivity and Its Applications, 2002, 369, 82-86.	1.2	6
51	Role of the field dependence of the heat capacity for the flux jump process in HTSC materials. Physica C: Superconductivity and Its Applications, 2002, 369, 227-231.	1.2	1