Viktor V Chabanenko

List of Publications by Year
in descending order

35 papers	259 citations	1307594 7 h-index	996975 15 g-index
35 all docs	35 docs citations	35 times ranked	181 citing authors

#	Article	IF	Citations
1	Flux Jumps and H-T Diagram of Instability for MgB2. Journal of Low Temperature Physics, 2003, 130, 175-191.	1.4	41
2	Magnetothermal instabilities in type II superconductors: The influence of magnetic irreversibility. Journal of Applied Physics, 2000, 88, 5875-5883.	2.5	28
3	Guiding of vortices in YBa2Cu3O7â^'Î´ single crystals with unidirected twins. Physica C: Superconductivity and Its Applications, 1999, 314, 133-138.	1.2	24
4	Observation of an odd longitudinal magnetoresistance in YBa2Cu3O7â^'Î´ single crystals with unidirected twins. Physica C: Superconductivity and Its Applications, 1998, 302, 271-276.	1.2	22
5	Hâ€“T phase diagram for the giant magnetic flux jumps in low temperature superconductors and high temperature superconductors. Journal of Applied Physics, 1998, 83, 7324-7326.	2.5	16
6	Pinning induced magnetostriction in ceramic high temperature superconductors. Physica C: Superconductivity and Its Applications, 1999, 321, 49-58.	1.2	15
7	Superparamagnetic behavior of C60Fe. Journal of Magnetism and Magnetic Materials, 2000, 222, 89-96.	2.3	10
8	Giant magnetostriction and flux instabilities in textured YBaCuO plates. Physica B: Condensed Matter, 1996, 216, 289-290.	2.7	7
9	Reversible mechanism of magnetothermal instabilities in melt-textured YBaCuO. Physica C: Superconductivity and Its Applications, 1996, 273, 127-134.	1.2	7
10	Title is missing!. Journal of Low Temperature Physics, 2003, 130, 425-433.	1.4	7
11	Flux instabilities in textured YBaCuO in strong magnetic fields and stabilization critical state. Physica B: Condensed Matter, 1996, 216, 285-288.	2.7	6
12	Failure of textured YBaCuO samples in the strong magnetic field. Physica C: Superconductivity and Its Applications, 1997, 289, 211-215.	1.2	6
13	The range of giant flux instabilities in the plane in hard superconductors: calculations and experiment. Superconductor Science and Technology, 1998, 11, 1181-1185.	3.5	6
14	The structure of vortex matter avalanches in a niobium plate. Physica C: Superconductivity and Its Applications, 2002, 369, 82-86.	1.2	6
15	Giant Magnetostriction and Flux Jumps in Superconducting Nb3Al Polycrystalline Slab. Journal of Low Temperature Physics, 2005, 139, 239-246.	1.4	6
16	Pinning of the Vortex System and Magnetostriction of Superconductors. Journal of Low Temperature Physics, 2005, 139, 309-330.	1.4	6
17	EPR spectrum of the Fe3+ ion in bromcresol green (C21H14Br4O5S) and features in the dynamics of the surrounding molecules. Low Temperature Physics, 2002, 28, 49-53.	0.6	4
18	Oscillation mode in the screening properties of Nbâ€“Ti plate as a result of flux jumps. Physica C: Superconductivity and Its Applications, 2002, 369, 77-81.	1.2	4

#	Article	IF	Citations
19	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
20	Manifestation of noncentrality in the EPR spectrum of Fe3+ in polycrystalline substances. Low Temperature Physics, 2004, 30, 956-960.	0.6	4
21	The Reversal of the Local Magnetic Field Profile atÂtheÂSurface of Superconducting Sample Caused byÂtheÂThermomagnetic Avalanche. Journal of Low Temperature Physics, 2009, 154, 55-67.	1.4	4
22	Transformation of the critical state in hard superconductors resulting from thermomagnetic avalanches. Low Temperature Physics, 2016, 42, 239-257.	0.6	4
23	Experimental observation of a new galvanomagnetic effect in YBaCuO single crystals with unidirected twins. Superconductor Science and Technology, 1998, 11, 1133-1136.	3.5	3
24	Magnetic moment inversion at giant flux jump: dynamical property of critical state in type-II superconductors. Scientific Reports, 2019, 9, 6233.	3.3	3
25	Superparamagnetic properties of C60Co3 complexes. Journal of Magnetism and Magnetic Materials, 2002, 249, 475-480.	2.3	2
26	Magnetic field penetration in MgB2 single crystals: Pinning and Meissner holes. Low Temperature Physics, 2014, 40, 621-625.	0.6	2
27	Threshold Field for Runaway Instability of Bilayer Hard Type-II Superconductor. Journal of Low Temperature Physics, 2015, 179, 75-82.	1.4	2
28	The magnetic properties of C-Ni carbon-metal complexes. Low Temperature Physics, 2017, 43, 625-630.	0.6	2
29	Oscillations of a single Abrikosov vortex in hard type-II superconductors. Low Temperature Physics, 2017, 43, 670-682.	0.6	2
30	Obtaining a Rough Flux Front in Type-II Superconductors Using a Critical State Model. Acta Physica Polonica A, 2016, 130, 645-648.	0.5	2
31	Excitation of oscillations of the magnetic induction in a Nbâ€“Ti slab as a result of a thermomagnetic flux avalanche. Low Temperature Physics, 2002, 28, 387-390.	0.6	1
32	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
33	Emulating rough flux patterns in type-II superconducting cylinders using the elliptic critical-state model. Journal of Applied Physics, 2017, 122, 143904.	2.5	1
34	Multi-Steps Magnetic Flux Entrance/Exit at Thermomagnetic Avalanches in the Plates of Hard Superconductors. Materials, 2022, 15, 2037.	2.9	1
35	Boundaries of the critical state stability in a hard superconductor Nb3Al in theHâ€“Tplane. Low Temperature Physics, 2013, 39, 329-337.	0.6	0