

Konstantin Pigalskiy

List of Publications by Year in descending order

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35
papers

240
citations

933447

10
h-index

996975

15
g-index

35
all docs

35
docs citations

35
times ranked

132
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of pinning and the peak effect in $Y_{1-x}Fe_xBa_2Cu_3O$ high-temperature superconductors. <i>Current Applied Physics</i> , 2022, 41, 116-122.	2.4	4
2	Vibrational motion of a vortex lattice induced near the surface of a type-II superconductor by an external low-frequency ac magnetic field. <i>Physical Review B</i> , 2021, 103, .	3.2	0
3	Enhancement of intrinsic pinning in the high-temperature superconductor $TmBa_2Cu_3O$: Manifestation of the interaction between vortices and a magnetic rare-earth ion. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 497, 165916.	2.3	5
4	Comparative Study of the Physical Properties of Fine-Crystalline Mechanoactivated and Sol-Gel Samples of $YBa_2Cu_3O_{6.92}$ High-Temperature Superconductors. <i>Russian Journal of Physical Chemistry B</i> , 2020, 14, 986-989.	1.3	2
5	Tolerance factor as the basic criterion in searching for promising oxygen-ion and proton conductors among $Ln_{2-x}D_xM_2O_7 \cdot \frac{1}{2}$ ($Ln = La-Lu$; $M = Sn, Ti, Zr, Hf$; $D = Sr, Ca, Mg$; $x = 0, 0.1$) $3+/4+$ pyrochlores. <i>Materials Research Bulletin</i> , 2019, 116, 72-78.	5.2	16
6	Proton and oxygen ion conductivity in the pyrochlore/fluorite family of $Ln_2\tilde{x}Ca_xScMO_7 \cdot \frac{1}{2}$ ($Ln = La$), <i>Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50</i>	3.3	28
7	Behavior of Cobalt and Rare-Earth Subsystems in Frustrated Cobaltites $DyBaCo_4O_{7+\tilde{x}}$. <i>Physics of the Solid State</i> , 2018, 60, 2507-2516.	0.6	1
8	Magnetodynamic Studies of Fine-Crystalline $YBa_2Cu_3O_y$ High-Temperature Superconductor Samples Synthesized by the Sol-Gel Method. <i>Russian Journal of Physical Chemistry B</i> , 2018, 12, 1024-1030.	1.3	0
9	Magnetization and Static Magnetic Susceptibility of Fine-Crystalline High-Temperature $YBa_2Cu_3O_y$ Superconductors Synthesized by the Sol-Gel Method. <i>Russian Journal of Physical Chemistry B</i> , 2018, 12, 908-915.	1.3	4
10	Enhancement of the intrinsic pinning by a magnetic field in a single crystal of high-temperature superconductor $TmBa_2Cu_3O_y$. <i>Physics of the Solid State</i> , 2017, 59, 450-456.	0.6	2
11	Paramagnetism of copper-oxygen chains in high-temperature $YBa_2Cu_3O_{6+\tilde{x}}$ superconductors. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016, 80, 504-507.	0.6	6
12	Enhancement of pseudogap anomalies induced by nanoscale structural inhomogeneity in $YBa_2Cu_3O_{6.93}$ high- T_c superconductor. <i>JETP Letters</i> , 2015, 102, 662-667.	1.4	11
13	Manifestation of pseudogap features in structurally inhomogeneous optimally doped HTSC $YBa_2Cu_3O_{6.92}$. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015, 79, 770-773.	0.6	1
14	Two Sources of Paramagnetic Curie-Type Contribution to the Normal State Magnetic Susceptibility of HTSC $YBa_2Cu_3O_{6+\tilde{x}}$. <i>Solid State Phenomena</i> , 2015, 233-234, 161-164.	0.3	1
15	Mixed state and magnetization of a thin type II superconducting film in the applied parallel magnetic field: Variational technique of the inclusion of the contribution from the core of a vortex. <i>JETP Letters</i> , 2015, 101, 168-172.	1.4	3
16	Synthesis, properties and phase transitions of pyrochlore- and fluorite-like Ln_2RMO_7 ($Ln=Sm, Ho$), <i>Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50</i>	3.2	20
17	Comparative study of structure disordering effects in fine-crystalline HTSC $YBa_2Cu_3O_{6.9}$ samples obtained by different methods. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014, 78, 274-277.	0.6	0
18	Evolution of atomic ordering in fine-grained $YBa_2Cu_3O_y$ high-temperature superconductors and its effect on superconducting transition temperature. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2013, 77, 242-245.	0.6	1

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19	Disordering effects in the atomic structure of fine-crystalline HTSC YBa ₂ Cu ₃ O _y . Journal of Experimental and Theoretical Physics, 2012, 114, 1001-1011.	0.9	20
20	Suppression of hole doping in fine-grained HTSC YBa ₂ Cu ₃ O _y due to structural disordering. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 1136-1139.	0.6	1
21	Features of the superconducting state and structural disorder in ultrafine particles of the HTSC YBa ₂ Cu ₃ O _y . Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 1086-1089.	0.6	1
22	The oxygen content and its ordering in the chain planes in fine-grained HTSC YBa ₂ Cu ₃ O _y . Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 1007-1009.	0.6	2
23	Dependence of the magnetic and superconducting characteristics of fine-grained HTSCs YBa ₂ Cu ₃ O _y on the degree of structural disorder and type of oxygen vacancy ordering in chain planes. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 547-549.	0.6	0
24	Origin of different contributions to the magnetic susceptibility of the normal-state YBa ₂ Cu ₃ O _y HTSC. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 1101-1103.	0.6	0
25	Interplane redistribution of oxygen in fine-grained HTSC. Physica C: Superconductivity and Its Applications, 2004, 415, 29-39.	1.2	15
26	Features of the local structure of fine-grained HTSC YBa ₂ Cu _{2.985} Fe _{0.015} O _y . Low Temperature Physics, 2004, 30, 275-283.	0.6	7
27	Equilibrium magnetic characteristics of high-T _c superconductors with allowance for the spatial distribution of the order parameter in the vortex cores. II. Vibrational contribution to the dynamic magnetic permeability. Low Temperature Physics, 2001, 27, 119-124.	0.6	2
28	Equilibrium magnetic characteristics of high-T _c superconductors with allowance for the spatial distribution of the order parameter in the vortex cores. I. Equilibrium magnetization. Low Temperature Physics, 2001, 27, 113-118.	0.6	6
29	Surface barrier and magnetic hysteresis of ac permeability in YBaCuO single crystal. Physica C: Superconductivity and Its Applications, 1998, 300, 270-280.	1.2	10
30	Mixed state stability range in a YBaCuO single crystal. Low Temperature Physics, 1998, 24, 617-623.	0.6	4
31	Dynamic magnetic permeability of a thin, high-T _c superconducting wafer. Physics of the Solid State, 1997, 39, 1737-1741.	0.6	7
32	Pinning and near-surface flux dynamics of the YBaCuO single crystal. Physica C: Superconductivity and Its Applications, 1994, 235-240, 3225-3226.	1.2	1
33	Hysteresis of the dynamical magnetic permeability of a YBa ₂ Cu ₃ O _{7-δ} single crystal. Physica C: Superconductivity and Its Applications, 1992, 200, 175-182.	1.2	11
34	First- and second-order phase transitions and oxygen rearrangement over the Cu ₁ -O ₄ chains in orthorhombic YBa ₂ Cu ₃ O _{6+x} at low temperatures. Physica C: Superconductivity and Its Applications, 1990, 167, 11-19.	1.2	38
35	Temperature hysteresis of the elastic modulus and low-temperature local phase transformations of the order-disorder type in the superconductor YBa ₂ Cu ₃ O _x . Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 131, 538-540.	2.1	10