Ruslan V Vovk

List of Publications by Year
in descending order

198	3,497	76326	175258
papers	citations	40 h-index	52 g-index

198	198	198	1158
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oxygen transport in perovskite and related oxides: A brief review. Journal of Alloys and Compounds, 2010, 494, 190-195.	5.5	126
2	Elastic and thermodynamic properties of new (Zr3âˆ’xTix)AlC2 MAX-phase solid solutions. Computational Materials Science, 2017, 137, 318-326.	3.0	119
3	Magnonâ€“fluxon interaction in a ferromagnet/superconductor heterostructure. Nature Physics, 2019, 15, 477-482.	16.7	83
4	Physical properties of the recently discovered Zr2(Al1âˆ’x Bi x)C MAX phases. Journal of Materials Science: Materials in Electronics, 2016, 27, 11925-11933.	2.2	71
5	Modeling self-diffusion in UO2 and ThO2 by connecting point defect parameters with bulk properties. Solid State Ionics, 2015, 274, 1-3.	2.7	70
6	c-axis hopping conductivity in heavily Pr-doped YBCO single crystals. Superconductor Science and Technology, 2013, 26, 085017.	3.5	69
7	Electro-transport and structure of 1-2-3 HTSC single crystals with different plane defects topologies. Journal of Materials Science: Materials in Electronics, 2012, 23, 1255-1259.	2.2	65
8	Fluctuation conductivity and pseudogap in single crystals under pressure with transport current flowing under an angle 45Â° to the twin boundaries. Physica C: Superconductivity and Its Applications, 2014, 501, 24-31.	1.2	63
9	Defects, dopants and Mg diffusion in MgTiO3. Scientific Reports, 2019, 9, 4394.	3.3	63
10	Electric transport and the pseudogap in the 1-2-3 HTSC system, under all-around compression (Review) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	61
11	Effect of high pressure on the fluctuation conductivity and the charge transfer of YBa2Cu3O7âˆ’Î´ single crystals. Journal of Alloys and Compounds, 2008, 453, 69-74.	5.5	59
12	Specific temperature dependence of pseudogap in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>YBa</mml:mi><mml:mn>2</mml:mn></mml mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>âˆ’</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></ nanolayers. Physical Review B, 2016, 94, .	3.2	58
13	Effect of annealing on a pseudogap state in untwinned YBa2Cu3O7âˆ’Î´ single crystals. Scientific Reports, 2019, 9, 9274.	3.3	57
14	Structural relaxation, metal-to-insulator transition and pseudo-gap in oxygen deficient ÐÐ¾Ba2Cu3O7âˆ’Î´ single crystals. Physica C: Superconductivity and Its Applications, 2009, 469, 203-206.	1.2	54
15	Effect of praseodymium on the electrical resistance of YÐ’Ð°2Ð¡u3Ðž7âˆ’Î´ single crystals. Solid State Communications, 2014, 190, 18-22.	1.9	54
16	Effect of hydrostatic pressure on the resistance and critical temperature of YBa2Cu3O7âˆ’Î´ single crystals. Low Temperature Physics, 1997, 23, 777-781.	0.6	50
17	Localization effects and pseudogap state in YBa2Cu3O7âˆ’Î´ single crystals with different oxygen content. Low Temperature Physics, 2006, 32, 571-575.	0.6	50
18	Pinning and dynamics of magnetic flux in YBaCuO single crystals for vortex motion along twin boundaries. Low Temperature Physics, 1997, 23, 962-967.	0.6	49

#	Article	IF	Citations
19	INFLUENCE OF HIGH PRESSURE ON THE TEMPERATURE-DEPENDENCE OF THE PSEUDO-GAP IN OXYGEN DEFICIENT YBa₂Cu₃O_{7-Î´} SINGLE CRYSTALS. Modern Physics Letters B, 2010, 24, 2295-2301.	1.9	48
20	Effect of long aging on the resistivity properties of optimally doped YBa2Cu3O7â˜Î´ single crystals. Solid State Communications, 2013, 170, 6-9.	1.9	48
21	Resistive measurements of the pseudogap in lightly Pr-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0012.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mo>â˜</mml:mo><mml:mi>x</mml:mi> Solid State Communications, 2015, 204, 64-66.	1.9	48
22	Interactions between phonon sheets in superfluid helium. New Journal of Physics, 2006, 8, 128-128.	2.9	47
23	Transport anisotropy and pseudo-gap state in oxygen deficient ReBa2Cu3O7â˜Î´ (Re=Y, Ho) single crystals. Journal of Alloys and Compounds, 2008, 464, 58-66.	5.5	47
24	Fluctuation conductivity of oxygen underdoped YBa2Cu3O7â˜Î´ single crystals. Physica B: Condensed Matter, 2014, 436, 88-90.	2.7	47
25	Metal-to-insulator transition in Y1â˜xPrxBa2Cu3O7â˜Î´ single crystals with various praseodymium contents. Physica C: Superconductivity and Its Applications, 2013, 485, 89-91.	1.2	46
26	Microwave emission from superconducting vortices in Mo/Si superlattices. Nature Communications, 2018, 9, 4927.	12.8	46
27	Spin-Wave Phase Inverter upon a Single Nanodefect. ACS Applied Materials & Interfaces, 2019, 11, 17654-17662.	8.0	46
28	Resistive relaxation processes in oxygen-deficient single crystals of YBa2Cu3O7â˜Î´. Low Temperature Physics, 1997, 23, 882-885.	0.6	45
29	Temperature dependence of the pseudogap in aluminum and praseodymium-doped single crystals. Physica B: Condensed Matter, 2009, 404, 3516-3518.	2.7	45
30	INFLUENCE OF LONGITUDINAL MAGNETIC FIELD ON THE FLUCTUATION CONDUCTIVITY IN SLIGHTLY Al-DOPED YBa₂Cu_{3-z}Al_zO_{7-Î´} SINGLE CRYSTALS WITH A GIVEN TOPOLOGY OF PLANE DEFECTS. Modern Physics Letters B, 2011, 25, 2131-2136.	1.9	46
31	Relaxation of the normal electrical resistivity induced by high-pressure in strongly underdoped YBa2Cu3O7â€“Î´ single crystals. Physica B: Condensed Matter, 2012, 407, 4470-4472.	2.7	45
32	Effect of high pressure on the fluctuation paraconductivity in Y0.95Pr0.05Ba2Cu3O7â˜Î´ single crystals. Current Applied Physics, 2014, 14, 1779-1782.	2.4	45
33	Anisotropy of the flux creep in the motion of vortices along twin-boundary planes in YBa2Cu3O7â˜x single crystals. Low Temperature Physics, 2001, 27, 339-344.	0.6	44
34	Excess conductivity and pseudo-gap state in YBCO single crystals slightly doped with Al and Pr. Journal of Materials Science: Materials in Electronics, 2007, 18, 811-815.	2.2	44
35	Transverse conductivity in Pr $$_y$$ y Y $$_{1-y}$$ 1 - y Ba $$_2$$ 2 Cu $$_3$$ 3 O $$_{7-delta }$$ 7 - Î´ single crystals in a wide range of praseodymium concentrations. Applied Physics A: Materials Science and Processing, 2014, 117, 997-1002.	2.3	44
36	Incoherent transport and pseudo-gap in HoBa2Cu3O7â˜Î´ single crystals with different oxygen content. Journal of Materials Science: Materials in Electronics, 2009, 20, 858-860.	2.2	43

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37	Defect process and lithium diffusion in Li2TiO3. Solid State Ionics, 2018, 327, 93-98.	2.7	43
38	Interactions between Sheets of Phonons in LiquidHe4. Physical Review Letters, 2003, 91, 235302.	7.8	42
39	Evolution of the Fishtail-Effect in Pure and Ag-doped MG-YBCO. Journal of Low Temperature Physics, 2010, 161, 387-394.	1.4	42
40	Effect of small oxygen deficiency on the para-coherent transition and 2Dâ€“3D crossover in untwinned YBa2Ð¡uÐ·Ðž7â^Î´ single crystals. Journal of Alloys and Compounds, 2011, 509, 4553-4556.	5.5	41
41	Resistivity investigations of plastic vortex creep inYBa2Cu3O6.95crystals. Physical Review B, 1998, 58, 2445-2447.	3.2	40
42	Pressure dependence of phonon interactions in liquidHe4. Physical Review B, 2005, 72, .	3.2	40
43	Effect of high pressure on the electrical resistivity of optimally doped YBa2Cu3O7â^' single crystals with unidirectional planar defects. Physica B: Condensed Matter, 2013, 422, 33-35.	2.7	40
44	Effect of high pressure on the metal-dielectric transition and the pseudo-gap temperature range in oxygen deficient YBa2Cu3O7â^Î´ single crystals. Journal of Materials Science: Materials in Electronics, 2011, 22, 20-24.	2.2	39
45	Hydrostatic-pressure effects on the pseudogap in slightly doped YBa2Cu3O7â^Î´ single crystals. Physica B: Condensed Matter, 2016, 493, 58-67.	2.7	39
46	Mobile fluxons as coherent probes of periodic pinning in superconductors. Scientific Reports, 2017, 7, 13740.	3.3	39
47	Peculiarities of pseudogap in Y0.95Pr0.05Ba2Cu3O7â^Î´ single crystals under pressure up to 1.7 GPa. Scientific Reports, 2019, 9, 20424.	3.3	39
48	Resistive investigation of pseudogap state in non-stoichiometric ReBa2Cu3O7â^Î´ (Re=Y, Ho) single crystals with account for BCSâ€“BEC crossover. Journal of Alloys and Compounds, 2009, 485, L21-L23.	5.5	38
49	Evolution of the electrical resistance of $$f{hbox {YBa}_2hbox {Cu}_3hbox {O}_{7-varvecdelta }}$$ YBa 2 Cu 3 O 7 - Î´ single crystals in the course of long-term aging. Journal of Materials Science: Materials in Electronics, 2014, 25, 5226-5230.	2.2	38
50	Effect of Structural Relaxation on the In-Plane Electrical Resistance of Oxygen-Underdoped ReBa $$_2$$ 2 Cu $$_3$$ 3 O $$_{7-delta }$$ 7 - Î´ (Re = Y,ÂHo) Single Crystals. Journal of Low Temperature Physics, 2014, 175, 614-630.	1.4	38
51	Angular distribution of a pulse of low-energy phonons in liquid4He. Physical Review B, 2003, 68, .	3.2	36
52	High-energy phonon pulses in liquid4He. Physical Review B, 2004, 69, .	3.2	36
53	Peculiarities in the pseudogap behavior in optimally doped YBa 2 Cu 3 O 7â^Î´ single crystals under pressure up to 1ÂGPa. Current Applied Physics, 2016, 16, 931-938.	2.4	33
54	Local flux-flow instability in superconducting films near <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:ma Physical Review B, 2019, 99, .	3.2	33

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55	Phase stability and physical properties of (Zr1-Nb)2AlC MAX phases. Journal of Physics and Chemistry of Solids, 2019, 132, 38-47.	4.0	32
56	Radiofrequency generation by coherently moving fluxons. Applied Physics Letters, 2018, 112, .	3.3	28
57	Effect of defects on the basal-plane resistivity of $$hbox {YBa}_2hbox {Cu}_3hbox {O}_{7-delta }$$ YBa 2 Cu 3 O 7 - Î´ and $$hbox {Y}_{1-y}hbox {Pr}_yhbox {Ba}_2hbox {Cu}_3hbox {O}_{7-x}$$ Y 1 - y Pr y Ba 2 Cu 3 O 7 - x single crystals. Journal of Materials Science: Materials in Electronics, 2015, 26, 1435-1440.	2.2	22
58	Effect of electron irradiation on the pseudogap temperature dependence of YBa $$_2$$ 2 Cu $$_3$$. Journal of Materials Science: Materials in Electronics, 2017, 28, 15886-15890.	2.2	22
59	Influence of planar and point defects on the basal-plane conductivity of HoBaCuO single crystals. Physica C: Superconductivity and Its Applications, 2015, 516, 58-61.	1.2	20
60	Fluctuation conductivity and possible pseudogap state in FeAs-based superconductor EuFeAsO0.85F0.15. Materials Research Express, 2016, 3, 076001.	1.6	17
61	Conductivity of single-crystal Y1â^'yPryBa2Cu3O7â^'Î´ over a wide range of temperatures and Pr concentrations. Low Temperature Physics, 2014, 40, 488-491.	0.6	16
62	Modification of superconducting and resistive properties ofÂHoBa2Cu3O7â^'Î´ single crystals under application-removal of high hydrostatic pressure. Modern Physics Letters B, 2016, 30, 1650188.	1.9	16
63	Different diffusion mechanisms of oxygen in ReBa 2 Cu 3 O 7â^'x (Re = Y, Ho) single crystals. Physica C: Superconductivity and Its Applications, 2017, 536, 26-29.	1.2	16
64	Reduction of Microwave Loss by Mobile Fluxons in Grooved Nb Films. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800223.	2.4	16
65	Diffusion and Dopant Activation in Germanium: Insights from Recent Experimental and Theoretical Results. Applied Sciences (Switzerland), 2019, 9, 2454.	2.5	16
66	A semantic approach to expert system for e-Assessment of credentials and competencies. Expert Systems With Applications, 2010, 37, 7003-7014.	7.6	15
67	Phase segregation and the effect of high pressure on the electro-transport in Y_{0.95}Pr_{0.05}Ba₂Cu₃ single crystals. Modern Physics Letters B, 2014, 28, 1450142.	1.9	15
68	Connecting bulk properties of germanium with the behavior of self- and dopant diffusion. Materials Science in Semiconductor Processing, 2015, 36, 179-183.	4.0	15
69	Toward Defect Engineering Strategies to Optimize Energy and Electronic Materials. Applied Sciences (Switzerland), 2017, 7, 674.	2.5	15
70	Room-temperature annealing effects on the basal-plane resistivity of optimally doped YBa 2 Cu 3 O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow /><mml:mrow><mml:mn>7</mml:mn><mml:mo>â^'</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:math>single crystals. Physica C: Superconductivity and Its Applications, 2018, 545, 14-17.	1.2	15
71	Transverse conductivity in Y$_{1-y}$Pr$_{y}$Ba$_{2}$Cu$_{3}$O$_{7-delta }$ single crystals. Materials Research Express, 2014, 1, 026303.	1.6	14
72	Modeling indium diffusion in germanium by connecting point defect parameters with bulk properties. Journal of Materials Science: Materials in Electronics, 2015, 26, 2113-2116.	2.2	14

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73	LOCALIZATION EFFECT AND PSEUDOGAP IN PRASEODYMIUM DOPED Y_{1-z}Pr_zBa₂Cu₃<font>O	1.9	13
	SINGLE CRYSTALS. Modern Physics Letters B, 2012, 26, 1250163.		
74	Sintered nanocomposites ZrO2-WC obtained with field assisted hot pressing. Composite Structures, 2021, 259, 113443.	5.8	12
75	Excess conductivity and the pseudogap state in Hf-doped YBa₂Cu₃O7â˜Î´ ceramics. Modern Physics Letters B, 2016, 30, 1650034.	1.9	11
76	Role of magnons and the size effect in heat transport through an insulating ferromagnet/insulator interface. Physical Review B, 2018, 98, .	3.2	11
77	Charge and heat transfer of the Ti3AlC2 MAX phase. Journal of Materials Science: Materials in Electronics, 2018, 29, 11478-11481.	2.2	11
78	Copper diffusion in germanium: connecting point defect parameters with bulk properties. Journal of Materials Science: Materials in Electronics, 2015, 26, 2693-2696.	2.2	10
79	Effect of electron irradiation on the fluctuation conductivity in YBa2Cu3O7â˜Î´ single crystals. Journal of Materials Science: Materials in Electronics, 2018, 29, 7725-7729.	2.2	10
80	Temperature dependence of the magnon-phonon energy relaxation time in a ferromagnetic insulator. Physical Review B, 2019, 100, .	3.2	10
81	Peculiarities of fluctuation conductivity and pseudogap behavior in slightly doped HoBa2Cu3O7â˜Î´ single crystals under pressure. Low Temperature Physics, 2011, 37, 840-842.	0.6	9
82	Impact of isovalent doping on the formation of the C i O i (Si I) n defects in silicon. Solid State Communications, 2017, 263, 19-22.	1.9	9
83	Moving flux quanta cool superconductors by a microwave breath. Communications Physics, 2020, 3, .	5.3	9
84	Evolution of the pseudogap state in weakly praseodymium-doped Y1â˜zPrzBa2Cu3O7â˜Î´ single crystals with a specified topology of planar defects. Low Temperature Physics, 2006, 32, 1131-1134.	0.6	8
85	Palladium diffusion in germanium. Journal of Materials Science: Materials in Electronics, 2015, 26, 3787-3789.	2.2	8
86	Oxygen diffusion in germanium: interconnecting point defect parameters with bulk properties. Journal of Materials Science: Materials in Electronics, 2015, 26, 7378-7380.	2.2	8
87	The CiOi(Sil)2 defect in silicon: density functional theory calculations. Journal of Materials Science: Materials in Electronics, 2017, 28, 10295-10297.	2.2	8
88	Pseudogap and fluctuation conductivity in Y1-xPrxBa2Cu3O7-Î´ single crystals with different concentrations of praseodymium. Low Temperature Physics, 2017, 43, 841-847.	0.6	8
89	Effect of electron irradiation and Pr doping on the charge transport in YBCO single crystals. Solid State Communications, 2018, 282, 5-8.	1.9	8
90	Evolution of the electrical resistance of YBa2Cu3O7â˜Î´ with Î´d â‰ˆ 0.45 under high hydrostatic pressures. Low Temperature Physics, 2012, 38, 255-257.	0.6	7

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91	Effect of Praseodymium Concentration on the Excess Conductivity Near the Critical Temperature of Y1âˆ’z Pr z Ba2Cu3O7âˆ’Î´ Single Crystals. Journal of Low Temperature Physics, 2013, 170, 216-222.	1.4	7
92	Electrical and thermal conductivity of the Ti3AlC2 MAX phase at low temperatures. Low Temperature Physics, 2018, 44, 451-452.	0.6	7
93	Effect of the redistribution of labile oxygen on the pseudogap state in untwinned single crystal YBa2Cu3O7âˆ’x. Low Temperature Physics, 2007, 33, 710-712.	0.6	6
94	OPTIMIZING OXYGEN DIFFUSION IN CATHODE MATERIALS FOR SOLID OXIDE FUEL CELLS. Modern Physics Letters B, 2012, 26, 1250196.	1.9	6
95	METALâ€“INSULATOR TRANSITION AND THE TEMPERATURE OF THE PSEUDOGAP ANOMALY OPENING IN PRASEODYMIUM DOPED Y_{1-z}Pr_zBa₂Cu₃O SINGLE CRYSTALS. Modern Physics Letters B, 2013, 27, 1350029.	1.9	6
96	Conductivity anisotropy inY_{1-y}Pr_yBa₂Cu₃<font>O crystals in a wide range of praseodymium concentrations. Modern Physics Letters B, 2014, 28, 1450245.	1.9	6
97	Conductivity relaxation in strongly underdoped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0018.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>YBa</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn> mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn><mml:mo>âˆ’</mml:mo><mml:mi>Î´</mml:mi> Physica B: Condensed Matter, 2017, 518, 47-50.	2.7	6
98	The CiCs(Sil)n Defect in Silicon from a Density Functional Theory Perspective. Materials, 2018, 11, 612.	2.9	6
99	Effect of electron irradiation on the transverse conductivity of the YBa2Cu3O7â€“Î´ single crystal. Low Temperature Physics, 2019, 45, 135-138.	0.6	6
100	Resistivity anisotropy in YBCO single crystals irradiated with fast electrons. Physica B: Condensed Matter, 2019, 566, 121-124.	2.7	6
101	Resistive studies of creep controlled by plastic deformation of a vortex lattice. Low Temperature Physics, 1998, 24, 53-55.	0.6	5
102	Anisotropy of the normal resistivity and suppression of superconductivity at twin boundaries in HoBa2Cu3O7âˆ’Î´ single crystals with different oxygen content. Low Temperature Physics, 2007, 33, 408-411.	0.6	5
103	Creep and depinning of vortices in a nontwinned YBa2Cu3O6.87 single crystal. Low Temperature Physics, 2008, 34, 508-514.	0.6	5
104	Magnetoresistance and 2D-3D crossover in aluminum-doped YBa2Cu3âˆ’zAlzO7âˆ’Î´ single crystals with a system of unidirectional twinning boundaries. Low Temperature Physics, 2010, 36, 115-118.	0.6	5
105	A ruleâ€based system for hybrid search and delivery of learning objects to learners. Interactive Technology and Smart Education, 2012, 9, 263-279.	5.6	5
106	Oxygen self-diffusion in apatites. Monatshefte FÃ¼r Chemie, 2012, 143, 345-353.	1.8	5
107	Diffusion coalescence in ÐÐ¾Ba₂Cu₃O_{7âˆ’x}single crystals under the application of hydrostatic pressure. Materials Research Express, 2017, 4, 096001.	1.6	5
108	Broadening of the superconducting transition in single crystal Yâ€Baâ€Cuâ€O. Low Temperature Physics, 2017, 43, 1119-1121.	0.6	5

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109	Zero-Bias Shapiro Steps in Asymmetric Pinning Nanolandscapes. Journal of Superconductivity and Novel Magnetism, 2017, 30, 735-741.	1.8	5
110	Spin Seebeck effect and phonon energy transfer in heterostructures containing layers of a normal metal and a ferromagnetic insulator. Physical Review B, 2019, 99, .	3.2	5
111	Tuning electric charge scattering in YBCO single crystals via irradiation with MeV electrons. Journal of Materials Science: Materials in Electronics, 2019, 30, 241-245.	2.2	5
112	Pressure and high-temperature superconductivity of hydrogen compounds. Low Temperature Physics, 2020, 46, 554-556.	0.6	5
113	Influence of high pressure on the fluctuation conductivity of YBa2Cu3O7â˜Î´ single crystals with an oxygen deficiency. Low Temperature Physics, 2006, 32, 614-616.	0.6	4
114	Relaxation effect of pressure on the pseudogap in oxygen underdoped HoBa2Cu3O7â˜Î´ single crystals. Journal of Materials Science: Materials in Electronics, 2013, 24, 5127-5131.	2.2	4
115	The effect of high pressure on the electrical resistivity of 2H-NbSe2 single crystals intercalated with deuterium. Low Temperature Physics, 2015, 41, 514-516.	0.6	4
116	Transverse resistance of YBa2Cu3O7â˜Î´ single crystals. Current Applied Physics, 2015, 15, 617-621.	2.4	4
117	Single-file diffusion of oxygen ions in the compound YBa2Cu3O7â˜x. Low Temperature Physics, 2016, 42, 936-939.	0.6	4
118	Controlling A-center concentration in silicon through isovalent doping: mass action analysis. Journal of Materials Science: Materials in Electronics, 2016, 27, 4385-4391.	2.2	4
119	Quenching and room-temperature annealing effects on the conductivity of underdoped HoBa2Cu3O7â˜Î´. Modern Physics Letters B, 2018, 32, 1750367.	1.9	4
120	Electrical Đ¡haracteristics of Long Josephson Junctions Based on Tungsten Nanorods as Weak Links: Effect of Random Critical-Current Distributions. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	4
121	Effect of electron irradiation on the scattering of carriers in YBa2Cu3O7â˜Î´ single crystals. Low Temperature Physics, 2018, 44, 860-862.	0.6	4
122	Annealing of defects after irradiation of YBCO single crystals with fast electrons. Physica C: Superconductivity and Its Applications, 2019, 565, 1353507.	1.2	4
123	Self-Diffusion in Perovskite and Perovskite Related Oxides: Insights from Modelling. Applied Sciences (Switzerland), 2020, 10, 2286.	2.5	4
124	Anisotropy of the vortex creep in a YBa2Cu3O7â˜x single crystal with unidirectional twin boundaries. Low Temperature Physics, 2001, 27, 201-215.	0.6	3
125	Temperature dependence of the pseudogap in Y1â˜zPrzBa2Cu3O7â˜Î´ single crystals. Journal of Materials Science: Materials in Electronics, 2013, 24, 1146-1149.	2.2	3
126	INFLUENCE OF INTRINSIC PINNING ON THE RESISTIVE PROPERTIES OF YBa2Cu3O7-Î´ SINGLE CRYSTALS. Modern Physics Letters B, 2013, 27, 1350220.	1.9	3

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127	Aging Effect on Electrical Conductivity of Pure and Al-Doped YBa2Cu3O7â˜Î´Single Crystals with a Given Topology of Planar Defects. Advances in Condensed Matter Physics, 2013, 2013, 1-7.	1.1	3
128	Transverse resistance in Y1â˜'yPryBa2Cu3O7â˜'Î´ at large praseodymium concentrations. Physica B: Condensed Matter, 2014, 451, 84-86.	2.7	3
129	Silicon diffusion in germanium described by connecting point defect parameters with bulk properties. Materials Research Express, 2015, 2, 036301.	1.6	3
130	Electric Charge Transfer and Scattering of Its Carriers in Cuprates of the 1â€“2â€“3 System. Journal of Low Temperature Physics, 2016, 183, 59-68.	1.4	3
131	Suppression of the orderâ€“disorder transition in Ti-doped YBaCuO compounds. Journal of Materials Science: Materials in Electronics, 2017, 28, 11415-11419.	2.2	3
132	Gold and silver diffusion in germanium: a thermodynamic approach. Journal of Materials Science: Materials in Electronics, 2017, 28, 1966-1970.	2.2	3
133	Enhanced oxygen diffusion in nano-structured ceria. Journal of Materials Science: Materials in Electronics, 2018, 29, 4743-4748.	2.2	3
134	Isovalent doping and the CiOi defect in germanium. Journal of Materials Science: Materials in Electronics, 2018, 29, 4261-4265.	2.2	3
135	The effect of annealing on the transverse electrotransport in YBa2Cu3O7â€“Î´ single crystals irradiated with high-energy electrons. Low Temperature Physics, 2019, 45, 1137-1139.	0.6	3
136	Composition variation and electron irradiation effects on the fluctuation conductivity in Y1â€“zPrzBa2Cu3O7â˜'Î´ single crystals. Journal of Materials Science: Materials in Electronics, 2020, 31, 19429-19436.	2.2	3
137	Influence of defects on anisotropy of electrical resistivity in $$hbox {YBa}_2hbox {Cu}_3hbox {O}_{7-delta }$$. Journal of Materials Science: Materials in Electronics, 2020, 31, 7708-7714.	2.2	3
138	Influence of Uniform Compression on the Temperature Dependence of the Pseudogap of Medium-Praseodymium-Doped Y1â˜'xPrxBa2Cu3O7â˜'Î´ Single Crystals. Journal of Low Temperature Physics, 2021, 203, 430-436.	1.4	3
139	Defects, diffusion and dopants in Li8SnO6. Heliyon, 2021, 7, e07460.	3.2	3
140	Relaxation of the electric resistance of YBaCuO single crystals due to hydrostatic pressure and jumpwise temperature variation. Low Temperature Physics, 1999, 25, 943-947.	0.6	2
141	COEXISTENCE OF DIFFERENT TYPES OF TRANSVERSE CONDUCTIVITY IN Y_{1-x}Pr_xBa₂Cu₃O_{7-Î´} SINGLE CRYSTALS WITH DIFFERENT PRASEODYMIUM CONCENTRATIONS. Modern Physics Letters B, 2013, 27, 1350198.	1.9	2
142	Electron transport and stability of the oxygen subsystem of YBa2Cu3O7â˜'Î´ single crystals upon prolonged exposure to air. Low Temperature Physics, 2014, 40, 1044-1047.	0.6	2
143	Redistribution of oxygen ions in single crystal YBa2Cu3O7-x owing to external hydrostatic pressure. Low Temperature Physics, 2018, 44, 41-44.	0.6	2
144	Influence of annealing on the electrical resistance of YBCO single crystals. Journal of Materials Science: Materials in Electronics, 2018, 29, 6601-6606.	2.2	2

#	Article	IF	Citations
145	Some features of the long-pulse propagation mode of a phonon sheet in superfluid 4He. Low Temperature Physics, 2018, 44, 1062-1065.	0.6	2
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