

Ruslan V Vovk

List of Publications by Year in descending order

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198
papers

3,497
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87401

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Suppression of superconductivity in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals upon irradiation with fast electrons. <i>Low Temperature Physics</i> , 2022, 48, 271-273.	0.2	2
2	Effect of high pressure on temperature dependences of the resistivity in the ab-plane of $\text{Y}_{0.77}\text{Pr}_{0.23}\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 9875-9884.	1.1	2
3	Sintered nanocomposites $\text{ZrO}_2\text{-WC}$ obtained with field assisted hot pressing. <i>Composite Structures</i> , 2021, 259, 113443.	3.1	12
4	Short notes: Effect of hydrostatic pressure up to 12 kbar on the electrical resistance of $\text{Y}_{0.77}\text{Pr}_{0.23}\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Low Temperature Physics</i> , 2021, 47, 166-169.	0.2	0
5	Structure and transport properties of the $\text{Fe}_{0.5}\text{Ni}_{0.5}$ composite. <i>Low Temperature Physics</i> , 2021, 47, 170-172.	0.2	0
6	Influence of high pressure on the temperature dependence of electrical resistivity of $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Solid State Communications</i> , 2021, 327, 114205.	0.9	1
7	Influence of Uniform Compression on the Temperature Dependence of the Pseudogap of Medium-Praseodymium-Doped $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ Single Crystals. <i>Journal of Low Temperature Physics</i> , 2021, 203, 430-436.	0.6	3
8	Effect of hydrogen on the electrical resistance of NbSe_2 in a wide temperature range. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 13588-13593.	1.1	2
9	Influence of uniform compression on fluctuation paraconductivity of single crystals $\text{Y}_{0.77}\text{Pr}_{0.23}\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$. <i>Low Temperature Physics</i> , 2021, 47, 388-391.	0.2	1
10	Structure-induced features of transport processes in an electroconsolidated FeNi composite. <i>Modern Physics Letters B</i> , 2021, 35, 2150425.	1.0	0
11	Defects, diffusion and dopants in Li_8SnO_6 . <i>Heliyon</i> , 2021, 7, e07460.	1.4	3
12	Oxygen migration in doped BaGdInO_4 . <i>Solid State Ionics</i> , 2021, 369, 115729.	1.3	0
13	Effect of a liquid phase on the plastic deformation of MAX phase-based (TiAlC) multicomponent ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2454-2458.	1.1	0
14	Mayenite Electrides and Their Doped Forms for Oxygen Reduction Reaction in Solid Oxide Fuel Cells. <i>Energies</i> , 2020, 13, 4978.	1.6	0
15	Composition variation and electron irradiation effects on the fluctuation conductivity in $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 19429-19436.	1.1	3
16	Sensitivity of a superconducting photon detector with a normal domain. <i>Low Temperature Physics</i> , 2020, 46, 599-601.	0.2	0
17	Moving flux quanta cool superconductors by a microwave breath. <i>Communications Physics</i> , 2020, 3, .	2.0	9
18	The effect of the chaotic pinning potential on intrinsic pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Low Temperature Physics</i> , 2020, 46, 1063-1069.	0.2	0

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19	Electrical and thermal conductivity of FeNi at low temperatures. <i>Low Temperature Physics</i> , 2020, 46, 939-943.	0.2	1
20	Self-Diffusion in Perovskite and Perovskite Related Oxides: Insights from Modelling. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2286.	1.3	4
21	Pressure and high-temperature superconductivity of hydrogen compounds. <i>Low Temperature Physics</i> , 2020, 46, 554-556.	0.2	5
22	Electron irradiation and annealing effects on the pseudogap in optimally doped YBCO single crystals. <i>Modern Physics Letters B</i> , 2020, 34, 2050151.	1.0	1
23	IV-characteristics and power of emission from stacks of long Josephson junctions with Gaussian spread of critical currents. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 2849-2854.	1.6	0
24	The effect of irradiation with high-energy electrons on the superconducting transition and the electrical resistivity anisotropy of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Low Temperature Physics</i> , 2020, 46, 639-642.	0.2	0
25	Evolution of finite-size phonon beams in superfluid helium. <i>Low Temperature Physics</i> , 2020, 46, 502-506.	0.2	0
26	Influence of defects on anisotropy of electrical resistivity in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 7708-7714.	1.1	3
27	Reduction of Microwave Loss by Mobile Fluxons in Grooved Nb Films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800223.	1.2	16
28	High pressure-induced relaxation of electrical resistance in weakly doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Low Temperature Physics</i> , 2019, 45, 465-467.	0.2	1
29	The effect of annealing on the transverse electrotransport in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals irradiated with high-energy electrons. <i>Low Temperature Physics</i> , 2019, 45, 1137-1139.	0.2	3
30	Annealing of defects after irradiation of YBCO single crystals with fast electrons. <i>Physica C: Superconductivity and Its Applications</i> , 2019, 565, 1353507.	0.6	4
31	Transverse conductivity and the pseudogap in YBCO single crystals irradiated with fast electrons. <i>Modern Physics Letters B</i> , 2019, 33, 1950233.	1.0	1
32	Evolution of the transverse electrical resistivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals under irradiation with high-energy electrons. <i>Low Temperature Physics</i> , 2019, 45, 785-788.	0.2	2
33	Incoherent charge transport induced by irradiation of YBCO single crystals with MeV electrons. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 4766-4769.	1.1	2
34	Effect of high pressure on various diffusion mechanisms in oxygen-deficient $\text{ReBa}_2\text{Cu}_3\text{O}_{7-x}$ (Re = Y, Tl). <i>ETQq0 0 0 rgBT /Overlock 10 T</i>	1.6	0
35	Effect of electron irradiation on the transverse conductivity of the $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystal. <i>Low Temperature Physics</i> , 2019, 45, 135-138.	0.2	6
36	Diffusion and Dopant Activation in Germanium: Insights from Recent Experimental and Theoretical Results. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2454.	1.3	16

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37	Effect of annealing on a pseudogap state in untwinned YBa ₂ Cu ₃ O _{7-δ} single crystals. Scientific Reports, 2019, 9, 9274.	1.6	57
38	Local flux-flow instability in superconducting films near T_c . Physical Review B, 2019, 99, .		
39	Resistivity anisotropy in YBCO single crystals irradiated with fast electrons. Physica B: Condensed Matter, 2019, 566, 121-124.	1.3	6
40	Microscopic analysis of heat transfer in I ₁ /N/I ₂ heterogeneous nanostructures at low temperatures. Low Temperature Physics, 2019, 45, 537-544.	0.2	1
41	Spin Seebeck effect and phonon energy transfer in heterostructures containing layers of a normal metal and a ferromagnetic insulator. Physical Review B, 2019, 99, .	1.1	5
42	Spin-Wave Phase Inverter upon a Single Nanodefekt. ACS Applied Materials & Interfaces, 2019, 11, 17654-17662.	4.0	46
43	Defects, dopants and Mg diffusion in MgTiO ₃ . Scientific Reports, 2019, 9, 4394.	1.6	63
44	Phase stability and physical properties of (Zr ₁ -Nb) ₂ AlC MAX phases. Journal of Physics and Chemistry of Solids, 2019, 132, 38-47.	1.9	32
45	Thermal conductivity of Al ₂ O ₃ -SiC nanocomposites prepared by the electroconsolidation method. Low Temperature Physics, 2019, 45, 419-421.	0.2	1
46	Suppression of vortex lattice melting in YBCO via irradiation with fast electrons. Journal of Materials Science: Materials in Electronics, 2019, 30, 6688-6692.	1.1	2
47	Magnon-fluxon interaction in a ferromagnet/superconductor heterostructure. Nature Physics, 2019, 15, 477-482.	6.5	83
48	Peculiarities of pseudogap in Y _{0.95} Pr _{0.05} Ba ₂ Cu ₃ O _{7-δ} single crystals under pressure up to 1.7 GPa. Scientific Reports, 2019, 9, 20424.	1.6	39
49	The effect of high-temperature annealing on the temperature dependence of the pseudogap of YBa ₂ Cu ₃ O _{7-δ} single crystals irradiated with high-energy electrons. Low Temperature Physics, 2019, 45, 1218-1221.	0.2	2
50	Temperature dependence of the magnon-phonon energy relaxation time in a ferromagnetic insulator. Physical Review B, 2019, 100, .	1.1	10
51	Tuning electric charge scattering in YBCO single crystals via irradiation with MeV electrons. Journal of Materials Science: Materials in Electronics, 2019, 30, 241-245.	1.1	5
52	Effect of electron irradiation on the fluctuation conductivity in YBa ₂ Cu ₃ O _{7-δ} single crystals. Journal of Materials Science: Materials in Electronics, 2018, 29, 7725-7729.	1.1	10
53	Redistribution of oxygen ions in single crystal YBa ₂ Cu ₃ O _{7-δ} owing to external hydrostatic pressure. Low Temperature Physics, 2018, 44, 41-44.	0.2	2
54	Radiofrequency generation by coherently moving fluxons. Applied Physics Letters, 2018, 112, .	1.5	28

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55	Influence of annealing on the electrical resistance of YBCO single crystals. Journal of Materials Science: Materials in Electronics, 2018, 29, 6601-6606.	1.1	2
56	Enhanced oxygen diffusion in nano-structured ceria. Journal of Materials Science: Materials in Electronics, 2018, 29, 4743-4748.	1.1	3
57	Isovalent doping and the CiOi defect in germanium. Journal of Materials Science: Materials in Electronics, 2018, 29, 4261-4265.	1.1	3
58	Annealing Effects on the Normal-State Resistive Properties of Underdoped Cuprates. Journal of Low Temperature Physics, 2018, 191, 184-193.	0.6	0
59	Electro- and Heat Transfer in $\text{Cd}_{0.22}\text{Hg}_{0.78}\text{Te}$. Journal of Low Temperature Physics, 2018, 190, 39-44.	0.6	1
60	Room-temperature annealing effects on the basal-plane resistivity of optimally doped YBa ₂ Cu ₃ O _{7-x} single crystals. Physica C: Superconductivity and Its Applications, 2018, 545, 14-17.	0.6	15
61	Quenching and room-temperature annealing effects on the conductivity of underdoped HoBa ₂ Cu ₃ O _{7-x} . Modern Physics Letters B, 2018, 32, 1750367.	1.0	4
62	Defect process and lithium diffusion in Li ₂ TiO ₃ . Solid State Ionics, 2018, 327, 93-98.	1.3	43
63	Microwave emission from superconducting vortices in Mo/Si superlattices. Nature Communications, 2018, 9, 4927.	5.8	46
64	Some features of the long-pulse propagation mode of a phonon sheet in superfluid 4He. Low Temperature Physics, 2018, 44, 1062-1065.	0.2	2
65	Role of magnons and the size effect in heat transport through an insulating ferromagnet/insulator interface. Physical Review B, 2018, 98, .	1.1	11
66	Charge and heat transfer of the Ti ₃ AlC ₂ MAX phase. Journal of Materials Science: Materials in Electronics, 2018, 29, 11478-11481.	1.1	11
67	The CiCs(Sil) _n Defect in Silicon from a Density Functional Theory Perspective. Materials, 2018, 11, 612.	1.3	6
68	Effect of electron irradiation and Pr doping on the charge transport in YBCO single crystals. Solid State Communications, 2018, 282, 5-8.	0.9	8
69	Electric transport and the pseudogap in the 1-2-3 HTSC system, under all-around compression (Review) Tj ETQq1 1 0,784314 rgBT / Over	0.2	6
70	Electrical Characteristics 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.	1.1	4
71	Effect of electron irradiation on the scattering of carriers in YBa ₂ Cu ₃ O _{7-x} single crystals. Low Temperature Physics, 2018, 44, 860-862.	0.2	4
72	Some peculiarities of labile oxygen kinetics in underdoped single crystals of YBa ₂ Cu ₃ O _{7-x} . Low Temperature Physics, 2018, 44, 346-348.	0.2	0

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73	Electrical and thermal conductivity of the Ti ₃ AlC ₂ MAX phase at low temperatures. Low Temperature Physics, 2018, 44, 451-452.	0.2	7
74	Different diffusion mechanisms of oxygen in ReBa ₂ Cu ₃ O _{7-δ} (Re = Y, Ho) single crystals. Physica C: Superconductivity and Its Applications, 2017, 536, 26-29.	0.6	16
75	Diffusion of the superconducting transition in HTSC. Journal of Materials Science: Materials in Electronics, 2017, 28, 10862-10865.	1.1	0
76	Effect of Hafnium Impurities on the Magnetoresistance of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. Journal of Low Temperature Physics, 2017, 186, 285-293.	0.6	1
77	Elastic and thermodynamic properties of new (Zr ³⁺ Ti)AlC ₂ MAX-phase solid solutions. Computational Materials Science, 2017, 137, 318-326.	1.4	119
78	Conductivity relaxation in strongly underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. Physica B: Condensed Matter, 2017, 518, 47-50.	1.3	6
79	The CiO(Sil) ₂ defect in silicon: density functional theory calculations. Journal of Materials Science: Materials in Electronics, 2017, 28, 10295-10297.	1.1	8
80	Suppression of the order-disorder transition in Ti-doped YBaCuO compounds. Journal of Materials Science: Materials in Electronics, 2017, 28, 11415-11419.	1.1	3
81	Mobile fluxons as coherent probes of periodic pinning in superconductors. Scientific Reports, 2017, 7, 13740.	1.6	39
82	Diffusion coalescence in $\text{D}_{3/4}\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals under the application of hydrostatic pressure. Materials Research Express, 2017, 4, 096001.	0.8	5
83	Pseudogap and fluctuation conductivity in Y _{1-x} Pr _x Ba ₂ Cu ₃ O _{7-δ} single crystals with different concentrations of praseodymium. Low Temperature Physics, 2017, 43, 841-847.	0.2	8
84	Effect of electron irradiation on the pseudogap temperature dependence of YBa ₂ Cu ₃ O _{7-δ} . Journal of Materials Science: Materials in Electronics, 2017, 28, 15886-15890.	1.1	22
85	Broadening of the superconducting transition in single crystal YBa ₂ Cu ₃ O _{7-δ} . Low Temperature Physics, 2017, 43, 1119-1121.	0.2	5
86	Impact of isovalent doping on the formation of the CiO(Sil) _n defects in silicon. Solid State Communications, 2017, 263, 19-22.	0.9	9
87	Zero-Bias Shapiro Steps in Asymmetric Pinning Nanolandscapes. Journal of Superconductivity and Novel Magnetism, 2017, 30, 735-741.	0.8	5
88	Electrophysical properties of nanoporous cerium dioxide-water system. Journal of Materials Science: Materials in Electronics, 2017, 28, 2157-2159.	1.1	0
89	Gold and silver diffusion in germanium: a thermodynamic approach. Journal of Materials Science: Materials in Electronics, 2017, 28, 1966-1970.	1.1	3
90	Toward Defect Engineering Strategies to Optimize Energy and Electronic Materials. Applied Sciences (Switzerland), 2017, 7, 674.	1.3	15

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91	Relaxation of the electric resistance in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals at room temperature. Modern Physics Letters B, 2017, 31, 1750179.	1.0	0
92	Role of twins in variations in the conductivity characteristics of single-crystal $\text{HoBa}_2\text{Cu}_3\text{O}_{7-\delta}$ during reversible changes in hydrostatic pressure. Low Temperature Physics, 2016, 42, 739-744.	0.2	1
93	Specific temperature dependence of pseudogap in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ nanolayers. Physical Review B, 2016, 94, .	1.1	58
94	On the 30-th anniversary of the discovery of high-temperature superconductivity. Low Temperature Physics, 2016, 42, 837-839.	0.2	0
95	Single-file diffusion of oxygen ions in the compound $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Low Temperature Physics, 2016, 42, 936-939.	0.2	4
96	Peculiarities in the pseudogap behavior in optimally doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals under pressure up to 1 GPa. Current Applied Physics, 2016, 16, 931-938.	1.1	33
97	Hydrostatic-pressure effects on the pseudogap in slightly doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals. Physica B: Condensed Matter, 2016, 493, 58-67.	1.3	39
98	Fluctuation conductivity and possible pseudogap state in FeAs-based superconductor $\text{EuFeAsO}_{0.85}\text{F}_{0.15}$. Materials Research Express, 2016, 3, 076001.	0.8	17
99	Physical properties of the recently discovered $\text{Zr}_2(\text{Al}_{1-x}\text{Bi}_x)\text{C}$ MAX phases. Journal of Materials Science: Materials in Electronics, 2016, 27, 11925-11933.	1.1	71
100	Modification by high pressure of fluctuation paraconductivity of underdoped $\text{HoBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals. Journal of Materials Science: Materials in Electronics, 2016, 27, 8013-8019.	1.1	1
101	Modification of superconducting and resistive properties of $\text{HoBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals under application-removal of high hydrostatic pressure. Modern Physics Letters B, 2016, 30, 1650188.	1.0	16
102	Relative concentrations of carbon related defects in silicon. Journal of Materials Science: Materials in Electronics, 2016, 27, 11268-11272.	1.1	1
103	Excess conductivity and the pseudogap state in Hf-doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ ceramics. Modern Physics Letters B, 2016, 30, 1650034.	1.0	11
104	Controlling A-center concentration in silicon through isovalent doping: mass action analysis. Journal of Materials Science: Materials in Electronics, 2016, 27, 4385-4391.	1.1	4
105	Electric Charge Transfer and Scattering of Its Carriers in Cuprates of the $\text{La}^{2+}\text{Cu}^{3+}$ System. Journal of Low Temperature Physics, 2016, 183, 59-68.	0.6	3
106	The effect of high pressure on the electrical resistivity of 2H-NbSe_2 single crystals intercalated with deuterium. Low Temperature Physics, 2015, 41, 514-516.	0.2	4
107	Transverse resistance of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals with different oxygen deficiency. Low Temperature Physics, 2015, 41, 874-878.	0.2	1
108	Effect of Structural Relaxation on the Metal-Insulator Transition in Heavily Underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Single Crystals. Journal of Low Temperature Physics, 2015, 180, 277-283.	0.6	0

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109	Transverse resistance in HoBa ₂ Cu ₃ O _{7-$\hat{\nu}$} single crystals. Modern Physics Letters B, 2015, 29, 1550232.	1.0	0
110	Resistive measurements of the pseudogap in lightly Pr-doped $Y_{1-y}Pr_yBa_2Cu_3O_{7-x}$ single crystals. Solid State Communications, 2015, 204, 64-66.	0.9	48
111	Modeling indium diffusion in germanium by connecting point defect parameters with bulk properties. Journal of Materials Science: Materials in Electronics, 2015, 26, 2113-2116.	1.1	14
112	Modeling self-diffusion in UO ₂ and ThO ₂ by connecting point defect parameters with bulk properties. Solid State Ionics, 2015, 274, 1-3.	1.3	70
113	Palladium diffusion in germanium. Journal of Materials Science: Materials in Electronics, 2015, 26, 3787-3789.	1.1	8
114	Copper diffusion in germanium: connecting point defect parameters with bulk properties. Journal of Materials Science: Materials in Electronics, 2015, 26, 2693-2696.	1.1	10
115	Effect of defects on the basal-plane resistivity of $YBa_2Cu_3O_{7-\hat{\nu}}$ and $Y_{1-y}Pr_yBa_2Cu_3O_{7-x}$ single crystals. Journal of Materials Science: Materials in Electronics, 2015, 26, 1435-1440.	1.1	22
116	Effect of Long Aging on the Resistivity Properties of Optimally Doped $YBa_2Cu_3O_{7-\hat{\nu}}$ Single Crystals. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	0
117	Transverse resistance of YBa ₂ Cu ₃ O _{7-$\hat{\nu}$} single crystals. Current Applied Physics, 2015, 15, 617-621.	1.1	4
118	Connecting bulk properties of germanium with the behavior of self- and dopant diffusion. Materials Science in Semiconductor Processing, 2015, 36, 179-183.	1.9	15
119	Oxygen diffusion in germanium: interconnecting point defect parameters with bulk properties. Journal of Materials Science: Materials in Electronics, 2015, 26, 7378-7380.	1.1	8
120	Silicon diffusion in germanium described by connecting point defect parameters with bulk properties. Materials Research Express, 2015, 2, 036301.	0.8	3
121	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.	0.6	20
122	Effect of high pressure on conductivity in the basal plane of Y ₁₋₄ Pr _x Ba ₂ Cu ₃ O _{7-$\hat{\nu}$} single crystals lightly doped of praseodymium. Functional Materials, 2015, 22, 5-13.	0.4	2
123	Transverse conductivity in Pr _y Y _{1-y} Ba ₂ Cu ₃ O _{7-$\hat{\nu}$} single crystals in a wide range of praseodymium concentrations. Applied Physics A: Materials Science and Processing, 2014, 117, 997-1002.	1.1	44
124	Electron transport and stability of the oxygen subsystem of YBa ₂ Cu ₃ O _{7-$\hat{\nu}$} single crystals upon prolonged exposure to air. Low Temperature Physics, 2014, 40, 1044-1047.	0.2	2
125	Conductivity of single-crystal Y _{1-x} Pr _x Ba ₂ Cu ₃ O _{7-$\hat{\nu}$} over a wide range of temperatures and Pr concentrations. Low Temperature Physics, 2014, 40, 488-491.	0.2	16
126	Evolution of the electrical resistance of $YBa_2Cu_3O_{7-\hat{\nu}}$ single crystals in the course of long-term aging. Journal of Materials Science: Materials in Electronics, 2014, 25, 5226-5230.	1.1	38

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127	Effect of Long Aging on the Resistivity Properties of Aluminum Doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Single Crystals with a Given Twin Boundary Topology. <i>Journal of Low Temperature Physics</i> , 2014, 174, 214-221.	0.6	1
128	Effect of Structural Relaxation on the In-Plane Electrical Resistance of Oxygen-Underdoped $\text{ReBa}_2\text{Cu}_3\text{O}_{7-\delta}$ (Re = Y, Ho) Single Crystals. <i>Journal of Low Temperature Physics</i> , 2014, 175, 614-630.	0.6	38
129	Strategies to suppress A-center formation in silicon and germanium from a mass action analysis viewpoint. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1388-1392.	1.1	1
130	Transverse conductivity in $\text{Y}_{1-y}\text{Pr}_y\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals. <i>Materials Research Express</i> , 2014, 1, 026303.	0.8	14
131	Fluctuation conductivity of oxygen underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Physica B: Condensed Matter</i> , 2014, 436, 88-90.	1.3	47
132	Effect of pressure on the critical temperature of single-crystal $\text{Y}_{0.95}\text{Pr}_{0.05}\text{Ba}_2\text{Cu}_3\text{O}_7$ with a specified planar defect geometry. <i>Low Temperature Physics</i> , 2014, 40, 699-701.	0.2	0
133	Effect of high pressure on the fluctuation paraconductivity in $\text{Y}_{0.95}\text{Pr}_{0.05}\text{Ba}_2\text{Cu}_3\text{O}_7$ single crystals. <i>Current Applied Physics</i> , 2014, 14, 1779-1782.	1.1	45
134	Transverse resistance in $\text{Y}_{1-y}\text{Pr}_y\text{Ba}_2\text{Cu}_3\text{O}_7$ at large praseodymium concentrations. <i>Physica B: Condensed Matter</i> , 2014, 451, 84-86.	1.3	3
135	Phase segregation and the effect of high pressure on the electro-transport in $\text{Y}_{0.95}\text{Pr}_{0.05}\text{Ba}_2\text{Cu}_3\text{O}_7$ single crystals. <i>Modern Physics Letters B</i> , 2014, 28, 1450142.		
136	Fluctuation conductivity and pseudogap in single crystals under pressure with transport current flowing under an angle 45° to the twin boundaries. <i>Physica C: Superconductivity and Its Applications</i> , 2014, 501, 24-31.	0.6	63
137	Effect of praseodymium on the electrical resistance of $\text{Y}_{0.95}\text{Pr}_{0.05}\text{Ba}_2\text{Cu}_3\text{O}_7$ single crystals. <i>Solid State Communications</i> , 2014, 190, 18-22.	0.9	54
138	Conductivity anisotropy in $\text{Y}_{1-y}\text{Pr}_y\text{Ba}_2\text{Cu}_3\text{O}_7$ single crystals in a wide range of praseodymium concentrations. <i>Modern Physics Letters B</i> , 2014, 28, 1450245.		
139	Scattering of electrons in oxygen underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Functional Materials</i> , 2014, 21, 137-141.	0.4	0
140	Evolution of the metal-insulator transition in oxygen nonstoichiometric $\text{YBa}_2\text{Cu}_3\text{O}_7$ single crystals under pressure. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 3132-3135.	1.1	0
141	Temperature dependence of the pseudogap in $\text{Y}_{1-z}\text{Pr}_z\text{Ba}_2\text{Cu}_3\text{O}_7$ single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1146-1149.	1.1	3
142	Relaxation effect of pressure on the pseudogap in oxygen underdoped $\text{HoBa}_2\text{Cu}_3\text{O}_7$ single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 5127-5131.	1.1	4
143	Effect of Praseodymium Concentration on the Excess Conductivity Near the Critical Temperature of $\text{Y}_{1-z}\text{Pr}_z\text{Ba}_2\text{Cu}_3\text{O}_7$ Single Crystals. <i>Journal of Low Temperature Physics</i> , 2013, 170, 216-222.	0.6	7
144	Effect of high pressure on the electrical resistivity of optimally doped $\text{YBa}_2\text{Cu}_3\text{O}_7$ single crystals with unidirectional planar defects. <i>Physica B: Condensed Matter</i> , 2013, 422, 33-35.	1.3	40

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145	Metal-to-insulator transition in $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$ single crystals with various praseodymium contents. <i>Physica C: Superconductivity and Its Applications</i> , 2013, 485, 89-91.	0.6	46
146	Effect of long aging on the resistivity properties of optimally doped $YBa_2Cu_3O_{7-\delta}$ single crystals. <i>Solid State Communications</i> , 2013, 170, 6-9.	0.9	48
147	METAL-INSULATOR TRANSITION AND THE TEMPERATURE OF THE PSEUDOGAP ANOMALY OPENING IN PRASEODYMIUM DOPED $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$ SINGLE CRYSTALS. <i>Modern Physics Letters B</i> , 2013, 27, 1350029.	1.0	6
148	COEXISTENCE OF DIFFERENT TYPES OF TRANSVERSE CONDUCTIVITY IN $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$ SINGLE CRYSTALS WITH DIFFERENT PRASEODYMIUM CONCENTRATIONS. <i>Modern Physics Letters B</i> , 2013, 27, 1350198.	1.0	2
149	Electrical resistance relaxation induced by high pressure in single crystals of $YBa_2Cu_3O_{7-\delta}$. <i>Low Temperature Physics</i> , 2013, 39, 530-533.	0.2	1
150	<i>c</i> -axis hopping conductivity in heavily Pr-doped YBCO single crystals. <i>Superconductor Science and Technology</i> , 2013, 26, 085017.	1.8	69
151	INFLUENCE OF INTRINSIC PINNING ON THE RESISTIVE PROPERTIES OF $YBa_2Cu_3O_{7-\delta}$ SINGLE CRYSTALS. <i>Modern Physics Letters B</i> , 2013, 27, 1350220.	1.0	3
152	Aging Effect on Electrical Conductivity of Pure and Al-Doped $YBa_2Cu_3O_{7-\delta}$ Single Crystals with a Given Topology of Planar Defects. <i>Advances in Condensed Matter Physics</i> , 2013, 2013, 1-7.	0.4	3
153	Effect of transverse and longitudinal magnetic field on the excess conductivity of $YBa_2Cu_3-zAl_zO_{7-\delta}$ single crystals with a given topology of plane defects. <i>Functional Materials</i> , 2013, 20, 208-216.	0.4	1
154	Evolution of the electrical resistance of $YBa_2Cu_3O_{7-\delta}$ with $\delta \approx 0.45$ under high hydrostatic pressures. <i>Low Temperature Physics</i> , 2012, 38, 255-257.	0.2	7
155	OPTIMIZING OXYGEN DIFFUSION IN CATHODE MATERIALS FOR SOLID OXIDE FUEL CELLS. <i>Modern Physics Letters B</i> , 2012, 26, 1250196.	1.0	6
156	LOCALIZATION EFFECT AND PSEUDOGAP IN PRASEODYMIUM DOPED $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$ SINGLE CRYSTALS. <i>Modern Physics Letters B</i> , 2012, 26, 1250163.	1.3	13
157	A rule-based system for hybrid search and delivery of learning objects to learners. <i>Interactive Technology and Smart Education</i> , 2012, 9, 263-279.	3.8	5
158	Relaxation of the normal electrical resistivity induced by high-pressure in strongly underdoped $YBa_2Cu_3O_{7-\delta}$ single crystals. <i>Physica B: Condensed Matter</i> , 2012, 407, 4470-4472.	1.3	45
159	Electro-transport and structure of 1-2-3 HTSC single crystals with different plane defects topologies. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 1255-1259.	1.1	65
160	Oxygen self-diffusion in apatites. <i>Monatshefte für Chemie</i> , 2012, 143, 345-353.	0.9	5
161	Peculiarities of fluctuation conductivity and pseudogap behavior in slightly doped $HoBa_2Cu_3O_{7-\delta}$ single crystals under pressure. <i>Low Temperature Physics</i> , 2011, 37, 840-842.	0.2	9
162	Effect of small oxygen deficiency on the para-coherent transition and 2D-3D crossover in untwinned $YBa_2Cu_3O_{7-\delta}$ single crystals. <i>Journal of Alloys and Compounds</i> , 2011, 509, 4553-4556.	2.8	41

#	ARTICLE	IF	CITATIONS
163	Effect of high pressure on the metal-dielectric transition and the pseudo-gap temperature range in oxygen deficient $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 20-24.	1.1	39
164	INFLUENCE OF LONGITUDINAL MAGNETIC FIELD ON THE FLUCTUATION CONDUCTIVITY IN SLIGHTLY Al -DOPED $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ SINGLE CRYSTALS WITH A GIVEN TOPOLOGY OF PLANE DEFECTS. <i>Modern Physics Letters B</i> , 2011, 25, 2131-2136.		
165	Effect of Oxygen Redistribution on Temperature Dependence of Pseudo-Gap in Underdoped $\text{HoBa}_2\text{Cu}_3\text{O}_{7-x}$ Single Crystals. <i>Acta Physica Polonica A</i> , 2011, 120, 512-515.	0.2	2
166	A semantic approach to expert system for e-Assessment of credentials and competencies. <i>Expert Systems With Applications</i> , 2010, 37, 7003-7014.	4.4	15
167	Evolution of the Fishtail-Effect in Pure and Ag-doped MG-YBCO. <i>Journal of Low Temperature Physics</i> , 2010, 161, 387-394.	0.6	42
168	Magnetoresistance and 2D-3D crossover in aluminum-doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}\text{Al}_z$ single crystals with a system of unidirectional twinning boundaries. <i>Low Temperature Physics</i> , 2010, 36, 115-118.	0.2	5
169	Oxygen transport in perovskite and related oxides: A brief review. <i>Journal of Alloys and Compounds</i> , 2010, 494, 190-195.	2.8	126
170	INFLUENCE OF HIGH PRESSURE ON THE TEMPERATURE-DEPENDENCE OF THE PSEUDO-GAP IN OXYGEN DEFICIENT $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ SINGLE CRYSTALS. <i>Modern Physics Letters B</i> , 2010, 24, 2295-2301.	1.0	48
171	Incoherent transport and pseudo-gap in $\text{HoBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals with different oxygen content. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 858-860.	1.1	43
172	Temperature dependence of the pseudogap in aluminum and praseodymium-doped single crystals. <i>Physica B: Condensed Matter</i> , 2009, 404, 3516-3518.	1.3	45
173	Structural relaxation, metal-to-insulator transition and pseudo-gap in oxygen deficient $\text{D}_{3/4}\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 203-206.	0.6	54
174	Resistive investigation of pseudogap state in non-stoichiometric $\text{ReBa}_2\text{Cu}_3\text{O}_{7-x}$ ($\text{Re}=\text{Y}, \text{Ho}$) single crystals with account for BCS-BEC crossover. <i>Journal of Alloys and Compounds</i> , 2009, 485, L21-L23.	2.8	38
175	Effect of high pressure on the fluctuation conductivity and the charge transfer of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Journal of Alloys and Compounds</i> , 2008, 453, 69-74.	2.8	59
176	Transport anisotropy and pseudo-gap state in oxygen deficient $\text{ReBa}_2\text{Cu}_3\text{O}_{7-x}$ ($\text{Re}=\text{Y}, \text{Ho}$) single crystals. <i>Journal of Alloys and Compounds</i> , 2008, 464, 58-66.	2.8	47
177	Creep and depinning of vortices in a nontwinned $\text{YBa}_2\text{Cu}_3\text{O}_{6.87}$ single crystal. <i>Low Temperature Physics</i> , 2008, 34, 508-514.	0.2	5
178	Anisotropy of the normal resistivity and suppression of superconductivity at twin boundaries in $\text{HoBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals with different oxygen content. <i>Low Temperature Physics</i> , 2007, 33, 408-411.	0.2	5
179	Effect of the redistribution of labile oxygen on the pseudogap state in untwinned single crystal $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Low Temperature Physics</i> , 2007, 33, 710-712.	0.2	6
180	Redistribution of carriers in oxygen-underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ at high hydrostatic pressure. <i>Low Temperature Physics</i> , 2007, 33, 94-96.	0.2	1

#	ARTICLE	IF	CITATIONS
181	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.	1.1	44
182	Localization effects and pseudogap state in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals with different oxygen content. Low Temperature Physics, 2006, 32, 571-575.	0.2	50
183	Influence of high pressure on the fluctuation conductivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals with an oxygen deficiency. Low Temperature Physics, 2006, 32, 614-616.	0.2	4
184	Interactions between phonon sheets in superfluid helium. New Journal of Physics, 2006, 8, 128-128.	1.2	47
185	Evolution of the pseudogap state in weakly praseodymium-doped $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ single crystals with a specified topology of planar defects. Low Temperature Physics, 2006, 32, 1131-1134.	0.2	8
186	Pressure dependence of phonon interactions in liquid He_4 . Physical Review B, 2005, 72, .	1.1	40
187	High-energy phonon pulses in liquid He_4 . Physical Review B, 2004, 69, .	1.1	36
188	Interactions between Sheets of Phonons in Liquid He_4 . Physical Review Letters, 2003, 91, 235302.	2.9	42
189	Angular distribution of a pulse of low-energy phonons in liquid He_4 . Physical Review B, 2003, 68, .	1.1	36
190	Anisotropy of the vortex creep in a $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystal with unidirectional twin boundaries. Low Temperature Physics, 2001, 27, 201-215.	0.2	3
191	Anisotropy of the flux creep in the motion of vortices along twin-boundary planes in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. Low Temperature Physics, 2001, 27, 339-344.	0.2	44
192	VORTEX DYNAMICS IN YBCO SINGLE CRYSTALS AT HIGH TEMPERATURES. , 2000, , .		0
193	Relaxation of the electric resistance of YBaCuO single crystals due to hydrostatic pressure and jumpwise temperature variation. Low Temperature Physics, 1999, 25, 943-947.	0.2	2
194	Resistivity investigations of plastic vortex creep in $\text{YBa}_2\text{Cu}_3\text{O}_{6.95}$ crystals. Physical Review B, 1998, 58, 2445-2447.	1.1	40
195	Resistive studies of creep controlled by plastic deformation of a vortex lattice. Low Temperature Physics, 1998, 24, 53-55.	0.2	5
196	Effect of hydrostatic pressure on the resistance and critical temperature of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. Low Temperature Physics, 1997, 23, 777-781.	0.2	50
197	Resistive relaxation processes in oxygen-deficient single crystals of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Low Temperature Physics, 1997, 23, 882-885.	0.2	45
198	Pinning and dynamics of magnetic flux in YBaCuO single crystals for vortex motion along twin boundaries. Low Temperature Physics, 1997, 23, 962-967.	0.2	49