

Nikolai D Zhigadlo

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175
papers

4,288
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184
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ext. citations

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L-index

#	Paper	IF	Citations
175	Inhomogeneity of charge-density-wave order and quenched disorder in a high-T _c superconductor. <i>Nature</i> , 2015 , 525, 359-62	50.4	213
174	Type-1.5 superconductivity. <i>Physical Review Letters</i> , 2009 , 102, 117001	7.4	211
173	Carbon substitution in MgB ₂ single crystals: Structural and superconducting properties. <i>Physical Review B</i> , 2005 , 71,	3.3	201
172	Direct observation of spin-orbit coupling in iron-based superconductors. <i>Nature Physics</i> , 2016 , 12, 311-317	16.2	139
171	High magnetic-field scales and critical currents in SmFeAs(O, F) crystals. <i>Nature Materials</i> , 2010 , 9, 628-337	33.7	110
170	Single crystals of LnFeAsO _{1-x} F _x (Ln=La, Pr, Nd, Sm, Gd) and Ba _{1-x} Rb _x Fe ₂ As ₂ : Growth, structure and superconducting properties. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 370-380	1.3	110
169	Single crystals of superconducting SmFeAsO _{1-x} F _y grown at high pressure. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 342202	1.8	110
168	Al substitution in MgB ₂ crystals: Influence on superconducting and structural properties. <i>Physical Review B</i> , 2005 , 71,	3.3	99
167	Magnetic penetration depth of single-crystalline SmFeAsO _{1-x} F _y . <i>Physical Review B</i> , 2009 , 79,	3.3	97
166	Evidence of nodeless superconductivity in FeSe _{0.85} from a muon-spin-rotation study of the in-plane magnetic penetration depth. <i>Physical Review B</i> , 2008 , 78,	3.3	92
165	Observation of Leggett's collective mode in a multiband MgB ₂ superconductor. <i>Physical Review Letters</i> , 2007 , 99, 227002	7.4	88
164	Snapshots of the retarded interaction of charge carriers with ultrafast fluctuations in cuprates. <i>Nature Physics</i> , 2015 , 11, 421-426	16.2	78
163	Distinct pseudogap and quasiparticle relaxation dynamics in the superconducting state of nearly optimally doped SmFeAsO _{0.8} F _{0.2} single crystals. <i>Physical Review Letters</i> , 2009 , 102, 117002	7.4	77
162	Superconductivity in the geometrically frustrated pyrochlore RbOs ₂ O ₆ . <i>Physical Review B</i> , 2004 , 70,	3.3	73
161	Single crystals of MgB ₂ : Synthesis, substitutions and properties. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 456, 3-13	1.3	66
160	Huge critical current density and tailored superconducting anisotropy in SmFeAsO _{1-x} F _y by low-density columnar-defect incorporation. <i>Nature Communications</i> , 2013 , 4, 2655	17.4	59
159	Topological Type-II Dirac Fermions Approaching the Fermi Level in a Transition Metal Dichalcogenide NiTe ₂ . <i>Chemistry of Materials</i> , 2018 , 30, 4823-4830	9.6	57

158	Evidence for two-gap nodeless superconductivity in SmFeAsO _{1-x} F _x from point-contact Andreev-reflection spectroscopy. <i>Physical Review B</i> , 2009 , 80,	3-3	57
157	Crystal growth, structure, and superconducting properties of the pyrochlore KOs ₂ O ₆ . <i>Physical Review B</i> , 2006 , 73,	3-3	55
156	High-pressure flux growth, structural, and superconducting properties of LnFeAsO (Ln = Pr, Nd, Sm) single crystals. <i>Physical Review B</i> , 2012 , 86,	3-3	53
155	Anisotropy of Superconducting Single Crystal SmFeAsO _{0.8} F _{0.2} Studied by Torque Magnetometry. <i>Journal of Superconductivity and Novel Magnetism</i> , 2009 , 22, 325-329	1-5	53
154	Superconductivity at 23 K and low anisotropy in Rb-substituted BaFe ₂ As ₂ single crystals. <i>Physical Review B</i> , 2009 , 79,	3-3	52
153	Bilayer Lateral Heterostructures of Transition-Metal Dichalcogenides and Their Optoelectronic Response. <i>ACS Nano</i> , 2019 , 13, 12372-12384	16-7	50
152	Point-contact Andreev-reflection spectroscopy in ReFeAsO _{1-x} F _x (Re = La, Sm): Possible evidence for two nodeless gaps. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 512-520	1-3	50
151	Evidence for Two Distinct Anisotropies in the Oxypnictide Superconductors SmFeAsO _{0.8} F _{0.2} and NdFeAsO _{0.8} F _{0.2} . <i>Journal of Superconductivity and Novel Magnetism</i> , 2009 , 22, 347-351	1-5	50
150	Anisotropic optical conductivity and two colors of MgB ₂ . <i>Physical Review B</i> , 2006 , 73,	3-3	50
149	Scanning Hall probe microscopy of unconventional vortex patterns in the two-gap MgB ₂ superconductor. <i>Physical Review B</i> , 2012 , 85,	3-3	49
148	Enhanced Charge-Carrier Mobility in High-Pressure-Crystallized Poly(3-hexylthiophene). <i>Macromolecules</i> , 2011 , 44, 1221-1225	5-5	49
147	Quasiparticle relaxation dynamics in spin-density-wave and superconducting SmFeAsO _{1-x} F _x single crystals. <i>Physical Review B</i> , 2010 , 81,	3-3	47
146	Th-substituted SmFeAsO: Structural details and superconductivity with T _c above 50 K. <i>Physical Review B</i> , 2010 , 82,	3-3	46
145	Strong magnetic pair breaking in Mn-substituted MgB ₂ single crystals. <i>Physical Review B</i> , 2006 , 73,	3-3	45
144	Pressure effects on the transition temperature and the magnetic field penetration depth in the pyrochlore superconductor RbOs ₂ O ₆ . <i>Physical Review Letters</i> , 2004 , 93, 157004	7-4	43
143	Anisotropic phase diagram and superconducting fluctuations of single-crystalline SmFeAsO _{0.85} F _{0.15} . <i>Physical Review B</i> , 2011 , 83,	3-3	42
142	Interaction-induced singular Fermi surface in a high-temperature oxypnictide superconductor. <i>Scientific Reports</i> , 2015 , 5, 10392	4-9	40
141	Transition from slow Abrikosov to fast moving Josephson vortices in iron pnictide superconductors. <i>Nature Materials</i> , 2013 , 12, 134-8	2-7	36

140	Influence of carbon substitution on the heat transport in single crystalline MgB ₂ . <i>Physical Review B</i> , 2005 , 71,	3.3	36
139	Structural phase transition and superlattice misfit strain of RFeAsO (R=La, Pr, Nd, Sm). <i>Physical Review B</i> , 2010 , 82,	3.3	35
138	Weak anharmonic effects in MgB ₂ : A comparative inelastic x-ray scattering and Raman study. <i>Physical Review B</i> , 2007 , 75,	3.3	35
137	Pressure-induced electronic phase separation of magnetism and superconductivity in CrAs. <i>Scientific Reports</i> , 2015 , 5, 13788	4.9	34
136	Tuning of competing magnetic and superconducting phase volumes in LaFeAsO _{0.945} F _{0.055} by hydrostatic pressure. <i>Physical Review B</i> , 2011 , 84,	3.3	34
135	Crystal growth of hexagonal boron nitride (hBN) from MgB ₂ solvent system under high pressure. <i>Journal of Crystal Growth</i> , 2014 , 402, 308-311	1.6	32
134	Effect of magnetic impurities in a two-band superconductor: a point-contact study of Mn-substituted single crystals. <i>Physical Review Letters</i> , 2006 , 97, 037001	7.4	31
133	Synthesis of superconducting pyrochlore RbOs ₂ O ₆ . <i>Superconductor Science and Technology</i> , 2004 , 17, 1169-1172	3.1	31
132	Local Electronic Structure of MgB ₂ by X-Ray Raman Scattering at the Boron K Edge. <i>Physical Review Letters</i> , 2005 , 94,	7.4	31
131	Local quasiparticle density of states of superconducting SmFeAsO(1-x)F(x) single crystals: evidence for spin-mediated pairing. <i>Physical Review Letters</i> , 2010 , 105, 167005	7.4	30
130	Inelastic x-ray scattering study of superconducting SmFeAsO _{1-x} F _x single crystals: Evidence for strong momentum-dependent doping-induced renormalizations of optical phonons. <i>Physical Review B</i> , 2009 , 80,	3.3	28
129	High-field phase-diagram of Fe arsenide superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 566-574	1.3	26
128	High-temperature superconductivity from fine-tuning of Fermi-surface singularities in iron oxypnictides. <i>Scientific Reports</i> , 2015 , 5, 18273	4.9	25
127	Anharmonicity and self-energy effects of the E _{2g} phonon in MgB ₂ . <i>Physical Review B</i> , 2007 , 75,	3.3	25
126	Anisotropic reversible mixed-state properties of superconducting carbon-doped Mg(B _{1-x} C _x) ₂ single crystals. <i>Physical Review B</i> , 2006 , 74,	3.3	24
125	Andreev spectroscopy of iron-based superconductors: temperature dependence of the order parameters and scaling of $\Delta_{\text{L}, \text{S}}$ with T_{C} . <i>Physics-Uspekhi</i> , 2014 , 57, 819-827	2.8	23
124	High-temperature phase changes in RuSr ₂ GdCu ₂ O ₈ and physical properties. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 387, 347-358	1.3	23
123	Vortex structure in superconducting iron pnictide single crystals. <i>JETP Letters</i> , 2009 , 90, 299-302	1.2	22

122	Superconducting vortex profile from fixed point measurements the Dazy Fisherman tunneling microscopy method. <i>Applied Physics Letters</i> , 2005 , 86, 212503	3.4	22
121	SrPt3P: A two-band single-gap superconductor. <i>Physical Review B</i> , 2014 , 90,	3.3	21
120	Evidence of spin-density-wave order in RFeAsO1-xF from measurements of thermoelectric power. <i>Physical Review B</i> , 2009 , 79,	3.3	21
119	Inelastic x-ray scattering study of collective electron excitations in MgB2. <i>Physical Review B</i> , 2005 , 71,	3.3	21
118	High-pressure magnetic state of MnP probed by means of muon-spin rotation. <i>Physical Review B</i> , 2016 , 93,	3.3	20
117	Influence of Mg deficiency on crystal structure and superconducting properties in MgB2 single crystals. <i>Physical Review B</i> , 2010 , 81,	3.3	20
116	MgB2 single crystals substituted with Li and with Li-C: Structural and superconducting properties. <i>Physical Review B</i> , 2008 , 77,	3.3	20
115	Point-contact Andreev-reflection spectroscopy in segregation-free Mg1-xAlxB2 single crystals up to x= 0.32. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 085225	1.8	19
114	Multi-gap superconductivity in MgB2: Magneto-Raman spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 456, 75-82	1.3	19
113	New ferromagnets of Sr8ARe3Cu4O24 (A=Sr, Ca) with an ordered perovskite structure. <i>Journal of Solid State Chemistry</i> , 2003 , 175, 366-371	3.3	19
112	High-field electron spin resonance spectroscopy study of GdFeAsO1-xF superconductors. <i>Physical Review B</i> , 2011 , 83,	3.3	18
111	de Haas-van Alphen effect investigation of the electronic structure of Al-substituted MgB2. <i>Physical Review B</i> , 2005 , 72,	3.3	18
110	Evolution of superconducting gaps in Th-substituted Sm1-xThxOFeAs studied by multiple Andreev reflection spectroscopy. <i>Physical Review B</i> , 2017 , 95,	3.3	17
109	Growth of whisker-like and bulk single crystals of PrFeAs(O,F) under high pressure. <i>Journal of Crystal Growth</i> , 2013 , 382, 75-79	1.6	17
108	Measurement of the penetration depth and coherence length of MgB2 in all directions using transmission electron microscopy. <i>Physical Review B</i> , 2015 , 91,	3.3	17
107	Pr4Fe2As2Te1-xO4: A layered FeAs-based superconductor. <i>Physical Review B</i> , 2013 , 87,	3.3	17
106	Interplay of composition, structure, magnetism, and superconductivity in SmFeAs1-xPxO1-y. <i>Physical Review B</i> , 2011 , 84,	3.3	17
105	Homologous series of high-Tc superconductors (Cu,C)Sr2Can-1CunOy (n=2,5) and (Cu,N,C)Sr2Can-1CunOy (n=3-5) synthesized under high pressure. <i>Physica C: Superconductivity and Its Applications</i> , 1998 , 307, 177-188	1.3	17

104	Raman and electrical transport properties of few-layered arsenic-doped black phosphorus. <i>Nanoscale</i> , 2019 , 11, 18449-18463	7.7	17
103	Rearrangement of the antiferromagnetic ordering at high magnetic fields in SmFeAsO and SmFeAsO _{0.9} F _{0.1} single crystals. <i>Physical Review B</i> , 2011 , 83,	3.3	16
102	Thermal conductivity of Al-doped MgB ₂ : Impurity scattering and the validity of the Wiedemann-Franz law. <i>Physical Review B</i> , 2006 , 74,	3.3	16
101	Effect of field-dependent core size on reversible magnetization of high-T _c superconductors. <i>Physical Review B</i> , 2006 , 74,	3.3	16
100	Infrared properties of Mg _{1-x} Al _x (B _{1-y} C _y) ₂ single crystals in the normal and superconducting state. <i>Physical Review B</i> , 2006 , 73,	3.3	16
99	Comparative study of neutron irradiation and carbon doping in MgB ₂ single crystals. <i>Physical Review B</i> , 2007 , 75,	3.3	16
98	Anomalies in the Fermi surface and band dispersion of quasi-one-dimensional CuO chains in the high-temperature superconductor YBa ₂ Cu ₄ O ₈ . <i>Physical Review Letters</i> , 2010 , 105, 267003	7.4	15
97	Measuring the penetration depth anisotropy in MgB ₂ using small-angle neutron scattering. <i>Physical Review B</i> , 2006 , 73,	3.3	15
96	Local tunneling study of three-dimensional order parameter in the Γ band of Al-doped MgB ₂ single crystals. <i>Physical Review B</i> , 2007 , 76,	3.3	15
95	Dual character of the electronic structure of YBa ₂ Cu ₄ O ₈ : the conduction bands of CuO ₂ planes and CuO chains. <i>Physical Review Letters</i> , 2007 , 98, 157002	7.4	15
94	High-Pressure Synthesis and Characterization of a New Series of V-Based Superconductors (Cu _{0.5} V _{0.5})Sr ₂ Can-1CunO _y . <i>Chemistry of Materials</i> , 1999 , 11, 2185-2190	9.6	15
93	An infrared spectroscopic study of Li ₂ B ₄ O ₇ . <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 6551-6561	1.8	14
92	Conventional superconductivity and hysteretic Campbell penetration depth in single crystals MgCNi ₃ . <i>Physical Review B</i> , 2013 , 87,	3.3	13
91	Anomalous asymmetry in the Fermi surface of the high-temperature superconductor YBa ₂ Cu ₄ O ₈ revealed by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2009 , 80,	3.3	13
90	Local lattice distortions vs. structural phase transition in NdFeAsO $1 \times \Gamma \times F$. <i>Physica C: Superconductivity and Its Applications</i> , 2016 , 527, 55-62	1.3	13
89	Strain-Induced Enhancement of the Electron Energy Relaxation in Strongly Correlated Superconductors. <i>Physical Review X</i> , 2014 , 4,	9.1	12
88	Nonadiabatic effects in the phonon dispersion of Mg _{1-x} Al _x B ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	11
87	Spontaneous growth of diamond from MnNi solvent-catalyst using opposed anvil-type high-pressure apparatus. <i>Journal of Crystal Growth</i> , 2014 , 395, 1-4	1.6	11

86	Critical current anisotropy in Nd-1111 single crystals and the influence of neutron irradiation. <i>Superconductor Science and Technology</i> , 2014 , 27, 044009	3.1	11
85	Observation of well-ordered metastable vortex lattice phases in superconducting MgB2 using small-angle neutron scattering. <i>Physical Review Letters</i> , 2012 , 108, 167001	7.4	11
84	Point-contact spectroscopy in Co-doped CaFe2As2: nodal superconductivity and topological Fermi surface transition. <i>Superconductor Science and Technology</i> , 2012 , 25, 065007	3.1	11
83	High pressure crystal growth of the antiperovskite centrosymmetric superconductor SrPt3P. <i>Journal of Crystal Growth</i> , 2016 , 455, 94-98	1.6	11
82	Growth of bulk single-crystal MnP helimagnet and its structural and NMR characterization. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 1027-1034	5.7	10
81	Disorder effects and current percolation in FeAs-based superconductors. <i>Superconductor Science and Technology</i> , 2010 , 23, 054006	3.1	10
80	Structural instability of Bi2.2Sr18CaCu2O8+x single crystal: An X-ray diffraction study in the temperature range 5-273 K. <i>Phase Transitions</i> , 1993 , 43, 167-171	1.3	10
79	Crystal structure and magnetic properties of some Mn2Sb-based alloys. <i>Crystal Research and Technology</i> , 1990 , 25, 165-169	1.3	10
78	Magnetic states of MnP: muon-spin rotation studies. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 164008	0.8	9
77	Two-gap superconductivity and topological surface states in TaOsSi. <i>Physical Review B</i> , 2019 , 100,	3.3	9
76	Doping influence on Sm1-xThxOFeAs superconducting properties: Observation of the effect of intrinsic multiple Andreev reflections and determination of the superconducting parameters. <i>JETP Letters</i> , 2014 , 99, 136-145	1.2	9
75	Pairing of weakly correlated electrons in the platinum-based centrosymmetric superconductor SrPt3P. <i>Physical Review B</i> , 2015 , 91,	3.3	9
74	Point-Contact Andreev-Reflection Spectroscopy in Fe-Based Superconductors: Multigap Superconductivity and Strong Electron-Boson Interaction. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012 , 25, 1297-1301	1.5	9
73	Normal state bottleneck and nematic fluctuations from femtosecond quasiparticle relaxation dynamics in Sm(Fe,Co)AsO. <i>Physical Review B</i> , 2013 , 87,	3.3	9
72	Magnetic structure of individual flux vortices in superconducting MgB2 derived using transmission electron microscopy. <i>Physical Review B</i> , 2013 , 87,	3.3	9
71	Observation of topological surface states in the high-temperature superconductor MgB2. <i>Physical Review B</i> , 2019 , 100,	3.3	9
70	Extreme magnetoresistance and pressure-induced superconductivity in the topological semimetal candidate YBi. <i>Physical Review B</i> , 2019 , 99,	3.3	8
69	Change of the charge modulation during superconducting transition in SmFeAsO 0.91 F 0.09 seen by 57 Fe Mössbauer spectroscopy. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 520-524	5.7	8

68	Slow magnetic fluctuations and superconductivity in fluorine-doped NdFeAsO. <i>Physical Review B</i> , 2015 , 91,	3.3	8
67	Quantum oscillations of the superconductor LaRu ₂ P ₂ : Comparable mass enhancement μ in Ru and Fe phosphides. <i>Physical Review B</i> , 2011 , 84,	3.3	8
66	High-pressure synthesis and superconductivity of Ca _{2-x} NaxCuO ₂ Cl ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 460-462, 372-373	1.3	8
65	In-plane magnetic penetration depth μ_b in Ca _{2-x} NaxCuO ₂ Cl ₂ : Role of the apical sites. <i>Physical Review B</i> , 2007 , 76,	3.3	8
64	Unusual behaviour of lithium tetraborate Li ₂ B ₄ O ₇ at low temperatures: An X-ray diffraction study. <i>Physica Status Solidi A</i> , 1995 , 152, 329-339		8
63	Probing two- and three-dimensional electrons in MgB ₂ with soft x-ray angle-resolved photoemission. <i>Physical Review B</i> , 2015 , 91,	3.3	7
62	Li ₄ Fe ₂ As ₂ Te _{1-x} O _{4-y} F _y (L=Pr,Sm,Gd): A layered oxypnictide superconductor with T _c up to 45 K. <i>Physical Review B</i> , 2014 , 89,	3.3	7
61	Quantitative imaging of flux vortices in the type-II superconductor MgB ₂ using cryo-Lorentz transmission electron microscopy. <i>Physical Review B</i> , 2013 , 88,	3.3	7
60	Analyses of lithium-doped and pure magnesium diboride using ultraviolet nano- and femtosecond laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 193-195	3.7	7
59	Structural and superconducting properties of RbOs ₂ O ₆ single crystals. <i>Physical Review B</i> , 2008 , 77,	3.3	7
58	X-ray diffraction study of the incommensurate structure in Bi _{2.2} Sr _{1.8} CaCu ₂ O _{8+x} single crystals. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 8969-8975	1.8	7
57	Chiral singlet superconductivity in the weakly correlated metal LaPtP. <i>Nature Communications</i> , 2021 , 12, 2504	17.4	7
56	High-pressure growth and characterization of bulk MnAs single crystals. <i>Journal of Crystal Growth</i> , 2017 , 480, 148-153	1.6	6
55	Superconducting order parameter and bosonic mode in hydrogen-substituted NdFeAsO _{0.6} H _{0.36} revealed by multiple-Andreev-reflection spectroscopy. <i>Physical Review B</i> , 2019 , 100,	3.3	6
54	Critical current oscillations in the intrinsic hybrid vortex state of SmFeAs(O,F). <i>Physical Review Letters</i> , 2014 , 113, 186402	7.4	6
53	Persistence of metastable vortex lattice domains in MgB ₂ in the presence of vortex motion. <i>Physical Review Letters</i> , 2013 , 111, 107002	7.4	6
52	High-energy electronic interaction in the 3d band of high-temperature iron-based superconductors. <i>Physical Review B</i> , 2017 , 96,	3.3	6
51	Photoinduced Quasiparticle Relaxation Dynamics in Near-optimally Doped SmFeAsO _{0.8} F _{0.2} Single Crystals. <i>Journal of Superconductivity and Novel Magnetism</i> , 2009 , 22, 575-578	1.5	6

50	Possible Multigap Superconductivity in SmFeAsO _{0.8} F _{0.2} : A Point-contact Andreev-reflection Spectroscopy Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2009 , 22, 543-547	1.5	6
49	Spontaneous emission of color centers at 4eV in hexagonal boron nitride under hydrostatic pressure. <i>Superlattices and Microstructures</i> , 2019 , 131, 1-7	2.8	5
48	Self-Consistent Two-Gap Approach in Studying Multi-Band Superconductivity of NdFeAsO _{0.65} F _{0.35} . <i>Frontiers in Physics</i> , 2020 , 8,	3.9	5
47	Intrinsic Charge Dynamics in High-T _c AFeAs(O,F) Superconductors. <i>Physical Review Letters</i> , 2018 , 120, 087001	7.4	5
46	Vacancies, disorder-induced smearing of the electronic structure, and its implications for the superconductivity of anti-perovskite MgCNI. <i>Scientific Reports</i> , 2017 , 7, 10148	4.9	5
45	Exploring Multi-Component Superconducting Compounds by a High-Pressure Method and Ceramic Combinatorial Chemistry. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 79-84	1.5	5
44	Field-dependent superfluid density in the optimally doped SmFeAsO 1-x F y superconductor. <i>Europhysics Letters</i> , 2010 , 91, 47005	1.6	5
43	Raman Investigations of C-, Li- and Mn-Doped MgB ₂ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2009 , 22, 169-172	1.5	5
42	Multiband superconductivity in LaFeAsO _{0.9} F _{0.1} single crystals probed by high-field vortex torque magnetometry. <i>Physical Review B</i> , 2011 , 83,	3.3	5
41	Effect of Heavy Al Doping on MgB ₂ : A Point-Contact Study of Crystals and Polycrystals. <i>Journal of Superconductivity and Novel Magnetism</i> , 2007 , 20, 555-558	1.5	5
40	Light element analysis in oxycarbonate superconductors using EELS. <i>Journal of Electron Microscopy</i> , 2001 , 50, 307-10		5
39	Diamagnetism and some peculiarities of interatomic interactions in Cu ₂ Sb. <i>Crystal Research and Technology</i> , 1988 , 23, 945-948	1.3	5
38	Intrinsic Multiple Andreev Reflections in Layered Th-Doped Sm _{1-x} Th _x OFeAs. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 673-677	1.5	4
37	The Order-Parameter Symmetry and Fermi Surface Topology of 122 Fe-Based Superconductors: A Point-Contact Andreev-Reflection Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 1331-1337	1.5	4
36	Non-linear lattice response of Sm oxypnictides to hydrostatic pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2013 , 74, 1465-1469	3.9	4
35	Synthesis and bulk properties of oxychloride superconductor Ca _{2-x} NaxCuO ₂ Cl ₂ . <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012121	0.3	4
34	High-pressure synthesis and properties of a new oxycarbonitrate superconductors in the Sr-Ca-Cu-N-C-O system. <i>Superconductor Science and Technology</i> , 2000 , 13, 1246-1251	3.1	4
33	Evidence of a multiple boson emission in Sm 1-x Th x OFeAs. <i>Europhysics Letters</i> , 2017 , 119, 17007	1.6	3

32	Electron-hole counts in Al-substituted MgB2 superconductors from x-ray Raman scattering. <i>Physical Review B</i> , 2008 , 78,	3.3	3
31	Influence of the synthesis conditions on the phase formation and superconducting properties of Bi1.6Pb0.4Sr2-xKxCa2Cu3F0.8Oy ceramics. <i>Superconductor Science and Technology</i> , 2000 , 13, 1424-1427 ³⁻¹		3
30	Structural transition kinetics and activated behavior in the superconducting vortex lattice. <i>Physical Review B</i> , 2019 , 99,	3.3	2
29	Phonon softening and MIR absorption in superconducting. <i>Superconductor Science and Technology</i> , 1997 , 10, 209-212	3.1	2
28	Influence of heat treatment conditions on the phase composition and superconducting properties of Bi1.6Pb0.4Sr1.98K0.02Ca2Cu3F0.8Oy ceramic. <i>Technical Physics Letters</i> , 1997 , 23, 548-549	0.7	2
27	Influence of potassium and fluorine on the formation and properties of the high-temperature 2223 phase in a (Bi, Pb)-Sr-Ca-Cu-O system. <i>Technical Physics Letters</i> , 1998 , 24, 374-376	0.7	2
26	Probing superconductivity in MgB2 confined to magnetic field tuned cylinders by means of critical fluctuations. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 135208	1.8	2
25	Effect of C and Li doping on the rf magnetic susceptibility in MgB2 single crystals. <i>Physical Review B</i> , 2008 , 78,	3.3	2
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