

# Nikolai D Zhigadlo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

175  
papers

4,288  
citations

36  
h-index

58  
g-index

184  
ext. papers

4,652  
ext. citations

4.1  
avg, IF

5.08  
L-index

#	Paper	IF	Citations
175	Spin-glass-like behavior in SmFeAsO <sub>0.8</sub> F <sub>0.2</sub> . <i>Mendeleev Communications</i> , <b>2022</b> , 32, 305-307	1.9	
174	Chiral singlet superconductivity in the weakly correlated metal LaPtP. <i>Nature Communications</i> , <b>2021</b> , 12, 2504	17.4	7
173	Self-Consistent Two-Gap Approach in Studying Multi-Band Superconductivity of NdFeAsO <sub>0.65</sub> F <sub>0.35</sub> . <i>Frontiers in Physics</i> , <b>2020</b> , 8,	3.9	5
172	Multiple-Band Andreev Transport in Optimally Doped Superconducting Oxypnictides. <i>JETP Letters</i> , <b>2020</b> , 112, 491-497	1.2	1
171	Structural studies of metastable and equilibrium vortex lattice domains in MgB <sub>2</sub> . <i>New Journal of Physics</i> , <b>2019</b> , 21, 063003	2.9	0
170	Bilayer Lateral Heterostructures of Transition-Metal Dichalcogenides and Their Optoelectronic Response. <i>ACS Nano</i> , <b>2019</b> , 13, 12372-12384	16.7	50
169	Two-gap superconductivity and topological surface states in TaOsSi. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	9
168	Extreme magnetoresistance and pressure-induced superconductivity in the topological semimetal candidate YBi. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	8
167	Crystal growth and characterization of the antiperovskite superconductor MgC <sub>1</sub> -Ni <sub>3</sub> -. <i>Journal of Crystal Growth</i> , <b>2019</b> , 520, 56-61	1.6	
166	Spontaneous emission of color centers at 4eV in hexagonal boron nitride under hydrostatic pressure. <i>Superlattices and Microstructures</i> , <b>2019</b> , 131, 1-7	2.8	5
165	Structural transition kinetics and activated behavior in the superconducting vortex lattice. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	2
164	Superconducting order parameter and bosonic mode in hydrogen-substituted NdFeAsO <sub>0.6</sub> H <sub>0.36</sub> revealed by multiple-Andreev-reflection spectroscopy. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	6
163	Raman and electrical transport properties of few-layered arsenic-doped black phosphorus. <i>Nanoscale</i> , <b>2019</b> , 11, 18449-18463	7.7	17
162	Observation of topological surface states in the high-temperature superconductor MgB <sub>2</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	9
161	Observation of high-T <sub>c</sub> superconductivity in inhomogeneous combinatorial ceramics. <i>Solid State Sciences</i> , <b>2019</b> , 88, 6-12	3.4	1
160	Intrinsic Charge Dynamics in High-T <sub>c</sub> AFeAs(O,F) Superconductors. <i>Physical Review Letters</i> , <b>2018</b> , 120, 087001	7.4	5
159	Topological Type-II Dirac Fermions Approaching the Fermi Level in a Transition Metal Dichalcogenide NiTe <sub>2</sub> . <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4823-4830	9.6	57

158	Nodal-to-nodeless superconducting order parameter in LaFeAs <sub>1-x</sub> P <sub>x</sub> O synthesized under high pressure. <i>Npj Quantum Materials</i> , <b>2018</b> , 3,	5	1
157	Crystal growth, characterization, and point-contact Andreev-reflection spectroscopy of the noncentrosymmetric superconductor Mo <sub>3</sub> Al <sub>2</sub> C. <i>Physical Review B</i> , <b>2018</b> , 97,	3-3	1
156	Evolution of superconducting gaps in Th-substituted Sm <sub>1-x</sub> Th <sub>x</sub> OFeAs studied by multiple Andreev reflection spectroscopy. <i>Physical Review B</i> , <b>2017</b> , 95,	3-3	17
155	Magnetic states of MnP: muon-spin rotation studies. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 164003	4-3	9
154	Critical fields and fluctuations determined from specific heat and magnetoresistance in the same nanogram SmFeAs(O,F) single crystal. <i>Physical Review B</i> , <b>2017</b> , 96,	3-3	1
153	High-pressure growth and characterization of bulk MnAs single crystals. <i>Journal of Crystal Growth</i> , <b>2017</b> , 480, 148-153	1-6	6
152	Evidence of a multiple boson emission in Sm <sub>1-x</sub> Th <sub>x</sub> OFeAs. <i>Europhysics Letters</i> , <b>2017</b> , 119, 17007	1-6	3
151	Vacancies, disorder-induced smearing of the electronic structure, and its implications for the superconductivity of anti-perovskite MgCNi. <i>Scientific Reports</i> , <b>2017</b> , 7, 10148	4-9	5
150	Growth of bulk single-crystal MnP helimagnet and its structural and NMR characterization. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 725, 1027-1034	5-7	10
149	High-energy electronic interaction in the 3d band of high-temperature iron-based superconductors. <i>Physical Review B</i> , <b>2017</b> , 96,	3-3	6
148	Exploring Multi-Component Superconducting Compounds by a High-Pressure Method and Ceramic Combinatorial Chemistry. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2017</b> , 30, 79-84	1-5	5
147	The role of spin-orbit coupling in the electronic structure of iron-based superconductors. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1600550	1-3	1
146	Nonadiabatic effects in the phonon dispersion of Mg <sub>1-x</sub> Al <sub>x</sub> B <sub>2</sub> . <i>Physical Review B</i> , <b>2016</b> , 93,	3-3	11
145	High-pressure magnetic state of MnP probed by means of muon-spin rotation. <i>Physical Review B</i> , <b>2016</b> , 93,	3-3	20
144	Intrinsic Multiple Andreev Reflections in Layered Th-Doped Sm <sub>1-x</sub> Th <sub>x</sub> OFeAs. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2016</b> , 29, 673-677	1-5	4
143	Direct observation of spin-orbit coupling in iron-based superconductors. <i>Nature Physics</i> , <b>2016</b> , 12, 311-317	6.2	139
142	Change of the charge modulation during superconducting transition in SmFeAsO <sub>0.91</sub> F <sub>0.09</sub> seen by <sup>57</sup> Fe Mössbauer spectroscopy. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 658, 520-524	5-7	8
141	Local lattice distortions vs. structural phase transition in NdFeAsO <sub>1-x</sub> F <sub>x</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2016</b> , 527, 55-62	1-3	13

140	High pressure crystal growth of the antiperovskite centrosymmetric superconductor SrPt <sub>3</sub> P. <i>Journal of Crystal Growth</i> , <b>2016</b> , 455, 94-98	1.6	11
139	Pressure induced lattice anomalies in pnictides. <i>Journal of Physics and Chemistry of Solids</i> , <b>2015</b> , 84, 28-33,9		
138	Snapshots of the retarded interaction of charge carriers with ultrafast fluctuations in cuprates. <i>Nature Physics</i> , <b>2015</b> , 11, 421-426	16.2	78
137	Inhomogeneity of charge-density-wave order and quenched disorder in a high-T <sub>c</sub> superconductor. <i>Nature</i> , <b>2015</b> , 525, 359-62	50.4	213
136	Pairing of weakly correlated electrons in the platinum-based centrosymmetric superconductor SrPt <sub>3</sub> P. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	9
135	Slow magnetic fluctuations and superconductivity in fluorine-doped NdFeAsO. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	8
134	High-temperature superconductivity from fine-tuning of Fermi-surface singularities in iron oxypnictides. <i>Scientific Reports</i> , <b>2015</b> , 5, 18273	4.9	25
133	Pressure-induced electronic phase separation of magnetism and superconductivity in CrAs. <i>Scientific Reports</i> , <b>2015</b> , 5, 13788	4.9	34
132	Interaction-induced singular Fermi surface in a high-temperature oxypnictide superconductor. <i>Scientific Reports</i> , <b>2015</b> , 5, 10392	4.9	40
131	Probing two- and three-dimensional electrons in MgB <sub>2</sub> with soft x-ray angle-resolved photoemission. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	7
130	Measurement of the penetration depth and coherence length of MgB <sub>2</sub> in all directions using transmission electron microscopy. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	17
129	Spontaneous growth of diamond from MnNi solvent-catalyst using opposed anvil-type high-pressure apparatus. <i>Journal of Crystal Growth</i> , <b>2014</b> , 395, 1-4	1.6	11
128	Critical current oscillations in the intrinsic hybrid vortex state of SmFeAs(O,F). <i>Physical Review Letters</i> , <b>2014</b> , 113, 186402	7.4	6
127	Crystal growth of hexagonal boron nitride (hBN) from MgB <sub>2</sub> /Ni solvent system under high pressure. <i>Journal of Crystal Growth</i> , <b>2014</b> , 402, 308-311	1.6	32
126	Doping influence on Sm <sub>1-x</sub> Th <sub>x</sub> OFeAs superconducting properties: Observation of the effect of intrinsic multiple Andreev reflections and determination of the superconducting parameters. <i>JETP Letters</i> , <b>2014</b> , 99, 136-145	1.2	9
125	L <sub>4</sub> Fe <sub>2</sub> As <sub>2</sub> Te <sub>1-x</sub> O <sub>4x/3</sub> F <sub>y</sub> (L=Pr,Sm,Gd): A layered oxypnictide superconductor with T <sub>c</sub> up to 45 K. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	7
124	Strain-Induced Enhancement of the Electron Energy Relaxation in Strongly Correlated Superconductors. <i>Physical Review X</i> , <b>2014</b> , 4,	9.1	12
123	SrPt <sub>3</sub> P: A two-band single-gap superconductor. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	21

122	Magnetic field penetration in MgB2 single crystals: Pinning and Meissner holes. <i>Low Temperature Physics</i> , <b>2014</b> , 40, 621-625	0.7	1
121	Critical current anisotropy in Nd-1111 single crystals and the influence of neutron irradiation. <i>Superconductor Science and Technology</i> , <b>2014</b> , 27, 044009	3.1	11
120	Andreev spectroscopy of iron-based superconductors: temperature dependence of the order parameters and scaling of $\Delta_{\text{L, S}}$ with $T_{\text{C}}$ . <i>Physics-Uspekhi</i> , <b>2014</b> , 57, 819-827	2.8	23
119	Persistence of metastable vortex lattice domains in MgB2 in the presence of vortex motion. <i>Physical Review Letters</i> , <b>2013</b> , 111, 107002	7.4	6
118	Huge critical current density and tailored superconducting anisotropy in SmFeAsO <sub>1-x</sub> F <sub>x</sub> by low-density columnar-defect incorporation. <i>Nature Communications</i> , <b>2013</b> , 4, 2655	17.4	59
117	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> , <b>2013</b> , 26, 1331-1337	1.5	4
116	Transition from slow Abrikosov to fast moving Josephson vortices in iron pnictide superconductors. <i>Nature Materials</i> , <b>2013</b> , 12, 134-8	27	36
115	Growth of whisker-like and bulk single crystals of PrFeAs(O,F) under high pressure. <i>Journal of Crystal Growth</i> , <b>2013</b> , 382, 75-79	1.6	17
114	Non-linear lattice response of Sm oxypnictides to hydrostatic pressure. <i>Journal of Physics and Chemistry of Solids</i> , <b>2013</b> , 74, 1465-1469	3.9	4
113	Lattice Effects Across the Phase Diagram of Pnictides. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2013</b> , 26, 1325-1330	1.5	1
112	Normal state bottleneck and nematic fluctuations from femtosecond quasiparticle relaxation dynamics in Sm(Fe,Co)AsO. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	9
111	Conventional superconductivity and hysteretic Campbell penetration depth in single crystals MgCNi3. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	13
110	Magnetic structure of individual flux vortices in superconducting MgB2 derived using transmission electron microscopy. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	9
109	Quantitative imaging of flux vortices in the type-II superconductor MgB2 using cryo-Lorentz transmission electron microscopy. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	7
108	Pr4Fe2As2Te1-xO4: A layered FeAs-based superconductor. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	17
107	High-pressure flux growth, structural, and superconducting properties of LnFeAsO (Ln = Pr, Nd, Sm) single crystals. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	53
106	Scanning Hall probe microscopy of unconventional vortex patterns in the two-gap MgB2 superconductor. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	49
105	Observation of well-ordered metastable vortex lattice phases in superconducting MgB2 using small-angle neutron scattering. <i>Physical Review Letters</i> , <b>2012</b> , 108, 167001	7.4	11

104	Point-Contact Andreev-Reflection Spectroscopy in Fe-Based Superconductors: Multigap Superconductivity and Strong Electron-Boson Interaction. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2012</b> , 25, 1297-1301	1.5	9
103	Point-contact spectroscopy in Co-doped CaFe <sub>2</sub> As <sub>2</sub> : nodal superconductivity and topological Fermi surface transition. <i>Superconductor Science and Technology</i> , <b>2012</b> , 25, 065007	3.1	11
102	Anisotropic phase diagram and superconducting fluctuations of single-crystalline SmFeAsO <sub>0.85</sub> F <sub>0.15</sub> . <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	42
101	Enhanced Charge-Carrier Mobility in High-Pressure-Crystallized Poly(3-hexylthiophene). <i>Macromolecules</i> , <b>2011</b> , 44, 1221-1225	5.5	49
100	Doping Dependent Quasiparticle Relaxation Dynamics in SmFeAsO <sub>1-x</sub> F <sub>x</sub> Single Crystals: Comparison of Spin-Density Wave and Superconducting States. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2011</b> , 24, 489-493	1.5	1
99	Tuning of competing magnetic and superconducting phase volumes in LaFeAsO <sub>0.945</sub> F <sub>0.055</sub> by hydrostatic pressure. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	34
98	Multiband superconductivity in LaFeAsO <sub>0.9</sub> F <sub>0.1</sub> single crystals probed by high-field vortex torque magnetometry. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	5
97	Interplay of composition, structure, magnetism, and superconductivity in SmFeAs <sub>1-x</sub> P <sub>x</sub> O <sub>1-y</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	17
96	Rearrangement of the antiferromagnetic ordering at high magnetic fields in SmFeAsO and SmFeAsO <sub>0.9</sub> F <sub>0.1</sub> single crystals. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	16
95	Quantum oscillations of the superconductor LaRu <sub>2</sub> P <sub>2</sub> : Comparable mass enhancement $\mu$ in Ru and Fe phosphides. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	8
94	High-field electron spin resonance spectroscopy study of GdFeAsO <sub>1-x</sub> F <sub>x</sub> superconductors. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	18
93	High magnetic-field scales and critical currents in SmFeAs(O, F) crystals. <i>Nature Materials</i> , <b>2010</b> , 9, 628-337	3.3	110
92	Disorder effects and current percolation in FeAs-based superconductors. <i>Superconductor Science and Technology</i> , <b>2010</b> , 23, 054006	3.1	10
91	Quasiparticle relaxation dynamics in spin-density-wave and superconducting SmFeAsO <sub>1-x</sub> F <sub>x</sub> single crystals. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	47
90	Influence of Mg deficiency on crystal structure and superconducting properties in MgB <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	20
89	Anomalies in the Fermi surface and band dispersion of quasi-one-dimensional CuO chains in the high-temperature superconductor YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> . <i>Physical Review Letters</i> , <b>2010</b> , 105, 267003	7.4	15
88	Field-dependent superfluid density in the optimally doped SmFeAsO <sub>1-x</sub> F <sub>y</sub> superconductor. <i>Europhysics Letters</i> , <b>2010</b> , 91, 47005	1.6	5
87	Influence of carbon on intraband scattering in Mg(B <sub>1-x</sub> C <sub>x</sub> ) <sub>2</sub> . <i>Europhysics Letters</i> , <b>2010</b> , 90, 27009	1.6	1

86	Th-substituted SmFeAsO: Structural details and superconductivity with Tc above 50 K. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	46
85	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> , <b>2010</b> , 25, 193-195	3-7	7
84	Local quasiparticle density of states of superconducting SmFeAsO(1-x)F(x) single crystals: evidence for spin-mediated pairing. <i>Physical Review Letters</i> , <b>2010</b> , 105, 167005	7-4	30
83	Structural phase transition and superlattice misfit strain of RFeAsO (R=La, Pr, Nd, Sm). <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	35
82	Influence of the carbon substitution on the critical current density and AC losses in MgB2 single crystals. <i>European Physical Journal B</i> , <b>2010</b> , 78, 359-365	1-2	1
81	Evidence of spin-density-wave order in RFeAsO1-xFx from measurements of thermoelectric power. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	21
80	Inelastic x-ray scattering study of superconducting SmFeAsO1-xFy single crystals: Evidence for strong momentum-dependent doping-induced renormalizations of optical phonons. <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	28
79	Distinct pseudogap and quasiparticle relaxation dynamics in the superconducting state of nearly optimally doped SmFeAsO0.8F0.2 single crystals. <i>Physical Review Letters</i> , <b>2009</b> , 102, 117002	7-4	77
78	Point-contact Andreev-reflection spectroscopy in ReFeAsO1-xFx (Re = La, Sm): Possible evidence for two nodeless gaps. <i>Physica C: Superconductivity and Its Applications</i> , <b>2009</b> , 469, 512-520	1-3	50
77	Single crystals of LnFeAsO1-xFx (Ln=La, Pr, Nd, Sm, Gd) and Ba1-xRbxFe2As2: Growth, structure and superconducting properties. <i>Physica C: Superconductivity and Its Applications</i> , <b>2009</b> , 469, 370-380	1-3	110
76	Raman Investigations of C-, Li- and Mn-Doped MgB2. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2009</b> , 22, 169-172	1-5	5
75	Anisotropy of Superconducting Single Crystal SmFeAsO0.8F0.2 Studied by Torque Magnetometry. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2009</b> , 22, 325-329	1-5	53
74	Evidence for Two Distinct Anisotropies in the Oxypnictide Superconductors SmFeAsO0.8F0.2 and NdFeAsO0.8F0.2. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2009</b> , 22, 347-351	1-5	50
73	Photoinduced Quasiparticle Relaxation Dynamics in Near-optimally Doped SmFeAsO0.8F0.2 Single Crystals. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2009</b> , 22, 575-578	1-5	6
72	Possible Multigap Superconductivity in SmFeAsO0.8F0.2: A Point-contact Andreev-reflection Spectroscopy Study. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2009</b> , 22, 543-547	1-5	6
71	Vortex structure in superconducting iron pnictide single crystals. <i>JETP Letters</i> , <b>2009</b> , 90, 299-302	1-2	22
70	High-field phase-diagram of Fe arsenide superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2009</b> , 469, 566-574	1-3	26
69	Anomalous asymmetry in the Fermi surface of the high-temperature superconductor YBa2Cu4O8 revealed by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	13

68	Type-1.5 superconductivity. <i>Physical Review Letters</i> , <b>2009</b> , 102, 117001	7.4	211
67	Magnetic penetration depth of single-crystalline SmFeAsO <sub>1-x</sub> Fy. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	97
66	Superconductivity at 23 K and low anisotropy in Rb-substituted BaFe <sub>2</sub> As <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	52
65	Evidence for two-gap nodeless superconductivity in SmFeAsO <sub>1-x</sub> Fx from point-contact Andreev-reflection spectroscopy. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	57
64	Evidence of nodeless superconductivity in FeSe <sub>0.85</sub> from a muon-spin-rotation study of the in-plane magnetic penetration depth. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	92
63	Single crystals of superconducting SmFeAsO <sub>1-x</sub> Fy grown at high pressure. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 342202	1.8	110
62	Probing superconductivity in MgB <sub>2</sub> confined to magnetic field tuned cylinders by means of critical fluctuations. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 135208	1.8	2
61	Point-contact Andreev-reflection spectroscopy in segregation-free Mg <sub>1-x</sub> Al <sub>x</sub> B <sub>2</sub> single crystals up to x = 0.32. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 085225	1.8	19
60	Electron-hole counts in Al-substituted MgB <sub>2</sub> superconductors from x-ray Raman scattering. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	3
59	MgB <sub>2</sub> single crystals substituted with Li and with Li-C: Structural and superconducting properties. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	20
58	Structural and superconducting properties of RbOs <sub>2</sub> O <sub>6</sub> single crystals. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	7
57	Effect of C and Li doping on the rf magnetic susceptibility in MgB <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	2
56	Synthesis and bulk properties of oxychloride superconductor Ca <sub>2-x</sub> NaxCuO <sub>2</sub> Cl <sub>2</sub> . <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 97, 012121	0.3	4
55	Single crystals of MgB <sub>2</sub> : Synthesis, substitutions and properties. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 456, 3-13	1.3	66
54	Multi-gap superconductivity in MgB <sub>2</sub> : Magneto-Raman spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 456, 75-82	1.3	19
53	High-pressure synthesis and superconductivity of Ca <sub>2-x</sub> NaxCuO <sub>2</sub> Cl <sub>2</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 460-462, 372-373	1.3	8
52	Effect of Heavy Al Doping on MgB <sub>2</sub> : A Point-Contact Study of Crystals and Polycrystals. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2007</b> , 20, 555-558	1.5	5
51	Point-Contact Spectroscopy in Mn-Doped MgB <sub>2</sub> Single Crystals: Effects of Magnetic Impurities in a Two-Band Superconductor. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2007</b> , 20, 523-526	1.5	1

50	Anharmonicity and self-energy effects of the E <sub>2g</sub> phonon in MgB <sub>2</sub> . <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	25
49	Manifestations of fine features of the density of states in the transport properties of KOs <sub>2</sub> O <sub>6</sub> . <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	1
48	Local tunneling study of three-dimensional order parameter in the $\Gamma$ band of Al-doped MgB <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2007</b> , 76,	3-3	15
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33	Infrared properties of Mg <sub>1-x</sub> Al <sub>x</sub> (B <sub>1-y</sub> C <sub>y</sub> ) <sub>2</sub> single crystals in the normal and superconducting state. <i>Physical Review B</i> , <b>2006</b> , 73,	3-3	16

32	Influence of carbon substitution on the heat transport in single crystalline MgB <sub>2</sub> . <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	36
31	Specific features of the growth of barium chromate crystals from different precursors. <i>Crystallography Reports</i> , <b>2005</b> , 50, 1064-1067	0.6	1
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29	Inelastic x-ray scattering study of collective electron excitations in MgB <sub>2</sub> . <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	21
28	Al substitution in MgB <sub>2</sub> crystals: Influence on superconducting and structural properties. <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	99
27	Carbon substitution in MgB <sub>2</sub> single crystals: Structural and superconducting properties. <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	201
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23	Superconductivity in the geometrically frustrated pyrochlore RbOs <sub>2</sub> O <sub>6</sub> . <i>Physical Review B</i> , <b>2004</b> , 70,	3-3	73
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18	HRTEM study of new series of oxycarbonitrate superconductors (Cu,C,N)Sr <sub>2</sub> Ca(n - 1)Cu(n)O <sub>y</sub> (n = 1-6). <i>Journal of Electron Microscopy</i> , <b>2001</b> , 50, 457-63		1
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16	Light element analysis in oxycarbonate superconductors using EELS. <i>Journal of Electron Microscopy</i> , <b>2001</b> , 50, 307-10		5
15	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> , <b>2000</b> , 13, 1246-1251	3-1	4

14	Influence of the synthesis conditions on the phase formation and superconducting properties of Bi <sub>1.6</sub> Pb <sub>0.4</sub> Sr <sub>2-x</sub> K <sub>x</sub> Ca <sub>2</sub> Cu <sub>3</sub> F <sub>0.8</sub> O <sub>y</sub> ceramics. <i>Superconductor Science and Technology</i> , <b>2000</b> , 13, 1424-1427 <sup>3.1</sup>		3
13	New oxycarbonate superconductors (C <sub>1-x</sub> N <sub>x</sub> )Sr <sub>2</sub> CuO <sub>5+y</sub> with a 1201-type structure <b>2000</b> , 98-100		
12	High-Pressure Synthesis and Characterization of a New Series of V-Based Superconductors (Cu <sub>0.5</sub> V <sub>0.5</sub> )Sr <sub>2</sub> Ca <sub>n-1</sub> Cu <sub>n</sub> O <sub>y</sub> . <i>Chemistry of Materials</i> , <b>1999</b> , 11, 2185-2190	9.6	15
11	New V-based superconductors (Cu,V)Sr <sub>2</sub> Ca <sub>n-1</sub> Cu <sub>n</sub> O <sub>y</sub> (n=3 $\bar{4}$ ) synthesized under high pressure <b>1999</b> , 375-378		1
10	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> , <b>1998</b> , 24, 374-376	0.7	2
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8	Phonon softening and MIR absorption in superconducting. <i>Superconductor Science and Technology</i> , <b>1997</b> , 10, 209-212	3.1	2
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6	Above T <sub>c</sub> phonon renormalization in Bi <sub>1.7</sub> Pb <sub>0.3</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> : an infrared spectroscopic study. <i>European Physical Journal D</i> , <b>1996</b> , 46, 1243-1244		
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