

Sergey L Bud'ko

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4121118/publications.pdf>

Version: 2024-02-01

265
papers

10,194
citations

31976

53
h-index

45317

90
g-index

268
all docs

268
docs citations

268
times ranked

7138
citing authors

#	ARTICLE	IF	CITATIONS
1	Small-moment antiferromagnetic ordering in single-crystalline LaMnO_2 . Physical Review B, 2022, 105, .	2.2	0
2	Topological magnetic hysteresis in single crystals of CeAgSb_2 ferromagnet. Journal of Physics Condensed Matter, 2022, 34, 145802.	1.8	2
3	Temperature dependent striction effect in a single crystalline $\text{Nd}_2\text{Fe}_{14}\text{B}$ revealed using a novel high temperature resistivity measurement technique. Measurement Science and Technology, 2022, 33, 055901.	2.6	0
4	High-Temperature Superconductivity in Hydrides: Experimental Evidence and Details. Journal of Superconductivity and Novel Magnetism, 2022, 35, 965-977.	1.8	32
5	Magnetisation and magneto-transport measurements on CeBi single crystals. Philosophical Magazine, 2022, 102, 542-558.	1.6	6
6	Emergence of Fermi arcs due to magnetic splitting in an antiferromagnet. Nature, 2022, 603, 610-615.	27.8	25
7	Hydrostatic pressure effect on the Co-based honeycomb magnet BaCo_2As_2 . Physical Review B, 2022, 105, .	2.2	0
8	Magnetic field screening in hydrogen-rich high-temperature superconductors. Nature Communications, 2022, 13, .	12.8	32
9	Avoided ferromagnetic quantum critical point in pressurized LaMnO_5 . Physical Review B, 2021, 103, .	3.2	9
10	Formation of short-range magnetic order and avoided ferromagnetic quantum criticality in pressurized LaCrGe . Physical Review B, 2021, 103, .	3.2	21
11	Evidence for a large Rashba splitting in PtPb_4 from angle-resolved photoemission spectroscopy. Physical Review B, 2021, 103, .	3.2	3
12	Comment on "Unconventional enhancement of ferromagnetic interactions in Cd-doped $\text{GdFe}_2\text{Zn}_{20}$ single crystals studied by ESR and ^{57}Fe Mössbauer spectroscopies". Physical Review B, 2021, 103, .	3.2	3
13	Magnetic properties of the itinerant ferromagnet LaCrGe under pressure studied by NMR. Physical Review B, 2021, .	3.2	8
14	Magnetic order in the van der Waals antiferromagnet CrPS_4 : Anisotropic phase diagrams and effects of pressure. Physical Review B, 2021, 103, .	3.2	7
15	Ubiquity of amplitude-modulated magnetic ordering in the H^T phase diagram of the frustrated non-Fermi-liquid YbAgGe . Physical Review B, 2021, 104, .	3.2	0
16	Dual Targeting with Cell Surface Electrical Charge and Folic Acid via Superparamagnetic $\text{Fe}_3\text{O}_4@\text{Cu}_2\text{S}$ for Photothermal Cancer Cell Killing. Cancers, 2021, 13, 5275.	3.7	13
17	Pressure-induced ferromagnetism in the topological semimetal CeCdAs_3 . Physical Review B, 2021, 104, .	3.2	21
18	Phase diagram of CeSb from magnetostriction and magnetization measurements: Evidence for ferrimagnetic and antiferromagnetic states. Physical Review B, 2021, 104, .	3.2	3

#	ARTICLE	IF	CITATIONS
19	A Low-Temperature Structural Transition in Canfieldite, Ag_8Sn_6 , Single Crystals. <i>Inorganic Chemistry</i> , 2021, 60, 19345-19355.	4.0	3
20	Visualizing band selective enhancement of quasiparticle lifetime in a metallic ferromagnet. <i>Nature Communications</i> , 2021, 12, 7169.	12.8	4
21	The specific features of phononic and magnetic subsystems of type-VII clathrate EuNi_2P_4 . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18025-18034.	2.8	0
22	Pressure tuning of structural and magnetic transitions in EuAg_4As_2 . <i>Physical Review B</i> , 2020, 101, .	3.2	7
23	Magnetism and its coexistence with superconductivity in $\text{CaKFe}_4\text{As}_8$. <i>Physical Review B</i> , 2020, 102, .	3.2	4
24	Clathrate BaNi_2P_4 : An Interplay of Heat and Charge Transport Due to Strong Host-Guest Interactions. <i>Chemistry of Materials</i> , 2020, 32, 7932-7940.	6.7	9
25	Hydrostatic and Uniaxial Pressure Tuning of Iron-Based Superconductors: Insights into Superconductivity, Magnetism, Nematicity, and Collapsed Tetragonal Transitions. <i>Annalen Der Physik</i> , 2020, 532, 2000248.	2.4	18
26	Characterization of the pressure coefficient of manganin and temperature evolution of pressure in piston-cylinder cells. <i>Review of Scientific Instruments</i> , 2020, 91, 095103.	1.3	7
27	Tuning of charge density wave transitions in LaAu_3Sb_7 by pressure and Au stoichiometry. <i>Physical Review B</i> , 2020, 102, .	3.2	7
28	Impact of nematicity on the relationship between antiferromagnetic fluctuations and superconductivity in FeSe_2S under pressure. <i>Physical Review B</i> , 2020, 101, .	1.2	1
29	Study of the ferromagnetic quantum phase transition in $\text{Ce}_3\text{Mg}_x\text{Co}_9$. <i>Philosophical Magazine</i> , 2020, 100, 1607-1619.	1.6	6
30	Nanocrystallites via Direct Melt Spinning of $\text{Fe}_{77}\text{Ni}_{5.5}\text{Co}_{5.5}\text{Zr}_7\text{B}_4\text{Cu}$ for Enhanced Magnetic Softness. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900680.	1.8	2
31	Measurements of elastoresistance under pressure by combining in-situ tunable quasi-uniaxial stress with hydrostatic pressure. <i>Review of Scientific Instruments</i> , 2020, 91, 023904.	1.3	3
32	Manipulating magnetism in the topological semimetal EuCd_2As_2 . <i>Physical Review B</i> , 2020, 101, .	1.2	1
33	Processing of Soft Magnetic Fine Powders Directly From As-Spun Partial Crystalline $\text{Fe}_{77}\text{Ni}_{5.5}\text{Co}_{5.5}\text{Zr}_7\text{B}_4\text{Cu}$ Ribbon via Ball Mill Without Devitrification. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-9.	2.1	1
34	Crystal-field approach to rare-earth higher borides: Dimerization, thermal, and magnetic properties of RB_5O_4 (R=Tb,Dy,Ho,Er,Tm). <i>Physical Review Materials</i> , 2020, 4, .	2.4	2
35	Electron irradiation effects on superconductivity in PdTe_2 : An application of a generalized Anderson theorem. <i>Physical Review Research</i> , 2020, 2, .	3.6	25
36	Role of the Fermi surface for the pressure-tuned nematic transition in the BaFe_2As_2 family. <i>Physical Review B</i> , 2019, 100, .	1.2	1

#	ARTICLE	IF	CITATIONS
37	Bulk Superconductivity and Role of Fluctuations in the Iron-Based Superconductor FeSe at High Pressures. Physical Review Letters, 2019, 123, 167002.	7.8	19
38	Magnetic fluctuations in the itinerant ferromagnet LaCrGe studied by NMR. Physical Review B, 2019, 100, .	3.2	4
39	Multiple ferromagnetic transitions and structural distortion in the van der Waals ferromagnet VI_3 at ambient and finite pressures. Physical Review B, 2019, 100, .	3.2	14
40	Single-Crystal Permanent Magnets: Extraordinary Magnetic Behavior in the Ta-, Cu-, and Fe-Substituted CeCo_5 Systems. Physical Review Applied, 2019, 11, .	3.8	15
41	Fragility of Fermi arcs in Dirac semimetals. Physical Review B, 2019, 99, .	3.2	19
42	Anisotropy induced vortex lattice rearrangement in $\text{CaKFe}_4\text{As}_2$. Physical Review B, 2019, 99, .	3.2	4
43	Use of Cernox thermometers in AC specific heat measurements under pressure. Review of Scientific Instruments, 2019, 90, 023911.	1.3	17
44	Magnetic and structural transitions in EuAg_4As_2 studied using ^{151}Eu Mössbauer spectroscopy. AIP Advances, 2019, 9, .	1.3	6
45	Thermodynamic properties and lattice dynamics investigation of LuB_2C : experiment and ab initio calculations. Physical Chemistry Chemical Physics, 2019, 21, 24684-24694.	2.8	2
46	Magnetoelastoresistance in WTe_2 : Exploring electronic structure and extremely large magnetoresistance under strain. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25524-25529.	7.1	19
47	Effect of pressure on the physical properties of the superconductor NiBi_3 . Journal of Physics Condensed Matter, 2019, 31, 035701.	1.8	9
48	Near room temperature antiferromagnetic ordering with a potential low-dimensional magnetism in AlMn_2B . Physical Review Materials, 2019, 3, .	1.8	0
49	In-plane magnetic penetration depth of superconducting $\text{CaKFe}_4\text{As}_2$. Physical Review B, 2018, 97, .	3.2	10
50	Pressure dependence of coherence-incoherence crossover behavior in KFe_2As_2 observed by resistivity and As75 -NMR/NQR. Physical Review B, 2018, 97, .	3.2	10
51	75As NMR and XRD Study of Structural and Electronic Inhomogeneities in $\text{Ba}(\text{Fe}_{1-x}\text{Ni}_x)_2\text{As}_2$. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3289-3295.	1.8	0
52	Hedgehog spin-vortex crystal stabilized in a hole-doped iron-based superconductor. Npj Quantum Materials, 2018, 3, .	5.2	85
53	Quantum tricritical point in the temperature-pressure-magnetic field phase diagram of CeTiGe_3 . Physical Review B, 2018, 97, .	3.2	10
54			

#	ARTICLE	IF	CITATIONS
55	Direct visualization of phase separation between superconducting and nematic domains in Co-doped CaFe_2As_2 . <i>Physical Review B</i> , 2018, 97, .	3.2	14
56	Using first-principles calculations to screen for fragile magnetism: Case study of LaCrGe_3 and LaCrSb_3 . <i>Physical Review B</i> , 2018, 97, .	3.2	6
57	Pressure-tuned superconductivity and normal-state behavior in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physical Review B</i> , 2018, 97, .	3.2	5
58	Robust s -wave pairing in $\text{CaK}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physical Review B</i> , 2018, 97, .	3.2	16
59	Uniaxial strain control of spin-polarization in multicomponent nematic order of BaFe_2As_2 . <i>Nature Communications</i> , 2018, 9, 1058.	12.8	41
60	Collapse of the Kondo state and ferromagnetic quantum phase transition in $\text{YbFe}_2\text{Zn}_{20}$. <i>Physical Review B</i> , 2018, 98, .	3.2	5
61	Nonequilibrium Pair Breaking in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physical Review B</i> , 2018, 98, .	3.2	1
62	Electronic structure of the topological superconductor candidate $\text{Au}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physical Review B</i> , 2018, 98, .	3.2	1
63	Effect of nickel substitution on magnetism in the layered van der Waals ferromagnet $\text{Fe}(\text{Fe}_{1-x}\text{Ni}_x)_2\text{As}_2$. <i>Physical Review B</i> , 2018, 98, .	3.2	1
64	Universal doping evolution of the superconducting gap anisotropy in single crystals of electron-doped $\text{Ba}(\text{Fe}_{1-x}\text{Rh}_x)_2\text{As}_2$ from London penetration depth measurements. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 225602.	1.8	2
65	Doping evolution of spin fluctuations and their peculiar suppression at low temperatures in $\text{Ca}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physical Review B</i> , 2018, 97, .	3.2	5
66	Vibrational anomalies in $\text{As}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physical Review B</i> , 2018, 98, .	3.2	5
67	Persistent correlation between superconductivity and antiferromagnetic fluctuations near a nematic quantum critical point in $\text{FeSe}(\text{S}_{1-x}\text{Te}_x)$. <i>Physical Review B</i> , 2018, 98, .	3.2	1
68	Nodeless superconductivity in the type-II Dirac semimetal PdTe_2 : London penetration depth and pairing-symmetry analysis. <i>Physical Review B</i> , 2018, 98, .	3.2	1
69	An inverse Ruddlesden-Popper nitride $\text{Ca}_7(\text{Li}_{1-x}\text{Fe}_x)_2\text{Te}_2\text{N}_2$ grown from Ca -rich. <i>Philosophical Magazine Letters</i> , 2018, 98, 118-125.	1.2	2
70	Lipid-coated superparamagnetic nanoparticles for thermoresponsive cancer treatment. <i>International Journal of Pharmaceutics</i> , 2018, 548, 297-304.	5.2	16
71	Multi-band effects in in-plane resistivity anisotropy of strain-detwinned disordered $\text{Ba}(\text{Fe}_{1-x}\text{Ru}_x)_2\text{As}_2$. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 315601.	1.8	7
72	Giant microwave absorption in fine powders of superconductors. <i>Scientific Reports</i> , 2018, 8, 11480.	3.3	5

#	ARTICLE	IF	CITATIONS
73	Specific features of thermal and magnetic properties of YbB50 at low temperatures. Physical Review Materials, 2018, 2, .	2.4	4
74	Defect mode and crystal-electric-field effects on the thermal expansion and heat capacity of RB50 boride. Journal of Thermal Analysis and Calorimetry, 2017, 129, 15-21.	3.6	9
75	Nodeless multiband superconductivity in stoichiometric single-crystalline CaKFeAs_4 . Physical Review B, 2017, 95, .	3.2	41
76	Pressure-induced half-collapsed-tetragonal phase in CaKFeAs_4 . Physical Review B, 2017, 96, .	3.2	41
77	Superelasticity and cryogenic linear shape memory effects of CaFe_2As_2 . Nature Communications, 2017, 8, 1083.	12.8	22
78	Growth and characterization of BaZnGa. Philosophical Magazine, 2017, 97, 3317-3324.	1.6	0
79	Tricritical wings and modulated magnetic phases in LaCrGe_3 under pressure. Nature Communications, 2017, 8, 546.	12.8	46
80	Electronic structure of $\text{R}_2\text{Sb}_2\text{R}_2\text{O}_{10}$ ($\text{R} = \text{La, Ce}$) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML")	3.2	41
81	angle-resolved photoemission spectroscopy. Physical Review B, 2017, 96, CaKFeAs_4 Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML")	1.6	13
82	Flux Crystal Growth of the $\text{RE}_2\text{Ru}_3\text{Ge}_5$ ($\text{RE} = \text{La, Ce}$) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML")	4.0	14
83	Local nematic susceptibility in stressed BaFe_2As_2 from NMR electric field gradient measurements. Physical Review B, 2017, 96, .	3.2	5
84	Enhancement of the Superconducting Gap by Nesting in CaKFeAs_4 . A New High Temperature Superconductor. Physical Review Letters, 2016, 117, 277001.	7.8	71
85	Combined effects of Sr substitution and pressure on the ground states in CaFe_2As_2 . Physical Review B, 2016, 94, .	3.2	5
86	NMR study of nematic spin fluctuations in a detwinned single crystal of underdoped BaFe_2As_2 . Physical Review B, 2016, 94, .	3.2	5
87	Physical properties of A_2FeAs_2 ($\text{A} = \text{Ca, Sr}$) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML")	3.2	21
88	Dirac node arcs in PtSn_4 . Nature Physics, 2016, 12, 667-671.	16.7	223
89	On the determination of hardness and elastic modulus in BaFe_2As_2 lamellar-like material. Journal of Materials Research, 2016, 31, 1413-1422.	2.6	8
90	Ferromagnetic Quantum Critical Point Avoided by the Appearance of Another Magnetic Phase in LaCrGe_3 under Pressure. Physical Review Letters, 2016, 117, 037207.	7.8	47

#	ARTICLE	IF	CITATIONS
91	Enhancement of superconducting transition temperature by pointlike disorder and anisotropic energy gap in FeSe single crystals. Physical Review B, 2016, 94, .	3.2	50
92	Asymmetric mass acquisition in LaBi: Topological semimetal candidate. Physical Review B, 2016, 94, .	3.2	52
93	Origin of the Resistivity Anisotropy in the Nematic Phase of FeSe. Physical Review Letters, 2016, 117, 127001.	7.8	93
94	Transition to collapsed tetragonal phase in CaFe_2 crystals as seen by Mössbauer spectroscopy. Physical Review B, 2016, 93, .	3.2	15
95	Robust tunability of magnetoresistance in half-Heusler MgPtBi . Physical Review B, 2016, 93, .	3.2	18
96	Preserved entropy and fragile magnetism. Reports on Progress in Physics, 2016, 79, 084506.	20.1	27
97	Strong cooperative coupling of pressure-induced magnetic order and nematicity in FeSe. Nature Communications, 2016, 7, 12728.	12.8	106
98	Super-heavy electron material as metallic refrigerant for adiabatic demagnetization cooling. Science Advances, 2016, 2, e1600835.	10.3	24
99	Physical properties of single crystalline R_2Mg_2 . Physical Review B, 2016, 93, .		

#	ARTICLE	IF	CITATIONS
109	Pressure-induced collapsed-tetragonal phase in SrCo ₂ As ₂ . Physical Review B, 2015, 92, .	3.2	16
110	Competing Magnetic Fluctuations in Iron Pnictide Superconductors: Role of Ferromagnetic Spin Correlations Revealed by NMR. Physical Review Letters, 2015, 115, 137001.	7.8	34
111	Temperature-Induced Lifshitz Transition in WTe_2 . Physical Review Letters, 2015, 115, 166602.	7.8	176
112	Solidification and loss of hydrostaticity in liquid media used for pressure measurements. Review of Scientific Instruments, 2015, 86, 123904.	1.3	58
113	On the Structure and Stability of BaAl ₄ -Type Ordered Derivatives in the Sr-Au-Sn System for the 600 Å°C Section. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 375-382.	1.2	3
114	Superconductivity in K- and Na-doped BaFe ₂ As ₂ : What can we learn from heat capacity and pressure dependence of T _c . Modern Physics Letters B, 2015, 29, 1430019.	1.9	3
115	⁵⁷ Fe Mössbauer study of Lu ₂ Fe ₃ Si ₅ iron silicide superconductor. Journal of Physics and Chemistry of Solids, 2015, 83, 58-63.	4.0	3
116	Study of ⁵⁷ Fe Mössbauer effect in RFe ₂ Zn ₂₀ (R = Lu, Yb, Gd). Journal of Physics Condensed Matter, 2015, 27, 336003.	1.8	6
117	Physical properties of CeGe ₂ (x = 0.24) single crystals. Journal of Physics Condensed Matter, 2014, 26, 146005.	1.8	6
118	Magnetic and transport properties of i-R-Cd icosahedral quasicrystals. Physical Review B, 2014, 90, .	3.2	27
119	Heat capacity jump at T _c and pressure derivatives of superconducting transition temperature in the Ba _{1-x} NaxFe ₂ As ₂ (0.1 ≤ x ≤ 0.9) series. Physical Review B, 2014, 89, .	3.2	20
120	Complex magnetic ordering in CeGe _{1.76} studied by neutron diffraction. Physical Review B, 2014, 90, .	3.2	1
121	Crossover from spin waves to diffusive spin excitations in underdoped Ba _{1-x} Fe _x . Physical Review B, 2014, 89, .	3.2	1
122	Upper critical field of K _{1-x} Fe ₂ As ₂ pressure: A test for the change in the superconducting gap structure. Physical Review B, 2014, 89, .	3.2	1
123	Infrared pseudogap in cuprate and pnictide high-temperature superconductors. Physical Review B, 2014, 90, .	3.2	21
124	Thermal expansion and lattice dynamics of RB ₆₆ compounds at low temperatures. Physics of the Solid State, 2014, 56, 2069-2076.	0.6	2
125	Heat capacity and thermal expansion of icosahedral lutetium boride LuB ₆₆ . Journal of Thermal Analysis and Calorimetry, 2014, 116, 765-769.	3.6	10
126	Giant magnetic anisotropy and tunnelling of the magnetization in Li ₂ (Li _{1-x} Fex)N. Nature Communications, 2014, 5, 3333.	12.8	60

#	ARTICLE	IF	CITATIONS
127	Ultrafast observation of critical nematic fluctuations and giant magnetoelastic coupling in iron pnictides. Nature Communications, 2014, 5, 3229.	12.8	64
128	Effect of spatial confinement on magnetic hyperthermia via dipolar interactions in Fe ₃ O ₄ nanoparticles for biomedical applications. Materials Science and Engineering C, 2014, 42, 52-63.	7.3	119
129	Suppression of ferromagnetism in the La(V _x Cr _{1-x})Sb ₃ system. Philosophical Magazine, 2014, 94, 1277-1300.	1.6	7
130	Fermi surface reconstruction in FeAs_2 system. Physical Review Letters, 2014, 112, 167201.	3.2	25
131	Dual nature of electron spin resonance in YbCo ₂ Zn ₂₀ intermetallic compound. JETP Letters, 2014, 99, 153-157.	1.4	5
132	Native defects in tetradymite Bi ₂ Te ₃ .		

#	ARTICLE	IF	CITATIONS
145	Heat capacity jump at Tc and pressure derivatives of superconducting transition temperature in the Ba _{1-x} K _x Fe ₂ As ₂ (0.2 ≤ x ≤ 1.0) series. Physical Review B, 2013, 87, .	3.2	36
146	Effect of heavy-ion irradiation on London penetration depth in overdoped Ba(Fe _{1-x} Co _x) ₂ As ₂ . Physical Review B, 2013, 88, .	3.2	13
147	Magnonlike Dispersion of Spin Resonance in Ni-doped $Ba_{1-x}Co_xFe_2As_2$. Physical Review Letters, 2013, 110, 177002.	7.8	21
148	Signatures of quantum criticality in the thermopower of Ba(Fe _{1-x} Ti _x) ₂ As ₂ . Physical Review Letters, 2013, 110, 177002.	3.2	10
149	Inelastic Neutron Scattering Study of a Nonmagnetic Collapsed Tetragonal Phase in Nonsuperconducting CaFe ₂ As ₂ . Physical Review Letters, 2013, 111, 227002.	3.2	26
150	Evidence of the Impact of Spin Fluctuations on Superconductivity in the Iron-Arsenide Compounds. Physical Review Letters, 2013, 111, 227002.	3.2	4
151	Electrical resistivity study of CeZn ₁₁ . Magnetic field and pressure phase diagram up to 5 GPa. Physical Review B, 2013, 88, .	3.2	4
152	Quantum Bicriticality in the Heavy-Fermion Metamagnet YbAgGe. Physical Review Letters, 2013, 111, 116401.	7.8	57
153	Boron isotope effect in single crystals of superconductor. Philosophical Magazine, 2013, 93, 1748-1754.	1.6	1
154	Thermoelectric power of Ba(Fe _{1-x} Co _x) ₂ As ₂ (0 ≤ x ≤ 0.05) and Ba(Fe _{1-x} Rh _x) ₂ As ₂ (0 ≤ x ≤ 0.171). Philosophical Magazine, 2013, 93, 661-672.	1.9	18
155	Magnetic and structural transitions in the iron-chalcogenide high-Tc superconductor: K _{0.8} Fe _{1.76} Se _{2.00} . Journal of Applied Physics, 2012, 111, 07E126.	2.5	2
156	Magnetically polarized Ir dopant atoms in superconducting Ba(Fe _{1-x} Ti _x) ₂ As ₂ . Physical Review Letters, 2013, 111, 177002.	3.2	9
157	Thermoelectric power of the Yb ₂ Zn ₂ As ₄ . Physical Review Letters, 2013, 111, 177002.	3.2	9

#	ARTICLE	IF	CITATIONS
163	Competition between stripe and checkerboard magnetic instabilities in Mn-doped BaFe \times As \times Physical Review B, 2012, 86, .	3.2	44
164	Upper critical fields and two-band superconductivity in Sr \times Eux(Fe \times Co \times) \times As \times (x=0.20 and 0.46). Physical Review B, 2012, 85, .	3.2	10
165	Effect of tensile stress on the in-plane resistivity anisotropy in BaFe \times As \times Physical Review B, 2012, 85, .	3.2	51
166	Magnetic excitations in underdoped Ba(Fe \times) \times As \times Physical Review B, 2012, 85, .	3.2	29
167	Frequency dependence of the spin glass freezing temperatures in icosahedral R \times Mg \times Zn (R \times = rare earth) quasicrystals. Philosophical Magazine, 2012, 92, 4492-4497.	1.6	5
168	Magnetic Properties of RB66 (R = Gd, Tb, Ho, Er, and Lu). Journal of Superconductivity and Novel Magnetism, 2012, 25, 2371-2375.	1.8	12
169	Magnetic phase diagram of magnetoelectric LiMnPO Physical Review B, 2012, 85, .	3.2	47
170	Hydrostatic and uniaxial pressure dependence of superconducting transition temperature of KFe \times As \times Physical Review B, 2012, 86, .	3.2	24
171	Magnetism, optical absorbance, and \times F NMR spectra of nafion films with self-assembling paramagnetic networks. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 129-138.	2.1	2
172	Development of viable solutions for the synthesis of sulfur bearing single crystals. Philosophical Magazine, 2012, 92, 2436-2447.	1.6	31
173	Enhancement of Thermopower of TAGS \times High \times Performance Thermoelectric Material by Doping with the Rare Earth Dy. Advanced Functional Materials, 2012, 22, 2766-2774.	14.9	81
174	Magnetic order in GdBiPt studied by x-ray resonant magnetic scattering. Physical Review B, 2011, 84, .	3.2	27
175	Coexistence of antiferromagnetic ordering and superconductivity in the Ba(Fe \times Ph \times) \times As \times compound studied by \times spectroscopy. Physical Review B, 2011, 84, .	3.2	18
176	Metallic surface electronic state in half-Heusler compounds		

#	ARTICLE	IF	CITATIONS
199	Flux pinning in PrFeAsO . Physical Review B, 2010, 82, . PrFeAsO	3.2	103
200	Commensurate antiferromagnetic ordering in BaFeAsO . Physical Review B, 2010, 82, . BaFeAsO	3.2	18
201	Anomalous Meissner effect in pnictide superconductors. Physical Review B, 2010, 82, . Unexpected Fermi-surface nesting in the pnictide parent compounds	3.2	17
202	BaFe_2As_2 and CaFe_2As_2 . Physical Review B, 2010, 81, . BaFe_2As_2 CaFe_2As_2	3.2	76
203	FeAs-Based Superconductivity: A Case Study of the Effects of Transition Metal Doping on BaFe_2As_2 . Annual Review of Condensed Matter Physics, 2010, 1, 27-50.	14.5	366
204	Local magnetic inhomogeneities in $\text{Ba}(\text{Fe}_{1-x}\text{Ni}_x)_2\text{As}_2$ seen via ^75S NMR. Physical Review B, 2010, 82, .	3.2	38
205	Anisotropic and quasipropagating spin excitations in superconducting BaFe_2As_2 . Physical Review B, 2010, 82, . BaFe_2As_2	3.2	54
206	Multigap superconductivity and Shubnikov-de Haas oscillations in single crystals of the layered boride OsB_2 . Physical Review B, 2010, 82, . OsB_2	3.2	31
207	Superconducting state coexisting with a phase-separated static magnetic order in BaFe_2As_2 . Physical Review B, 2009, 80, . BaFe_2As_2	3.2	122
208	Muon spin rotation measurement of the magnetic field penetration depth in BaFe_2As_2 . Physical Review B, 2009, 80, . BaFe_2As_2	3.2	64
209	Optical spectroscopy of superconducting BaFe_2As_2 . Physical Review B, 2009, 80, . BaFe_2As_2	3.2	68
210	Small-angle neutron scattering study of the vortex lattice in superconducting $\text{LuNi}_2\text{B}_2\text{C}$. Physical Review B, 2009, 79, . $\text{LuNi}_2\text{B}_2\text{C}$	3.2	12
211	Upper and lower critical magnetic fields of superconducting NdFeAsO single crystals studied by Hall-probe magnetization and specific heat. Physical Review B, 2009, 79, . NdFeAsO	3.2	50
212	Nonexponential London penetration depth of external magnetic fields in superconducting BaFe_2As_2 . Physical Review B, 2009, 80, . BaFe_2As_2	3.2	77
213	Magnetic properties of FeCo . Physical Review B, 2009, 80, . FeCo	3.2	62
214	London penetration depth in single crystals of BaFe_2As_2 . Physical Review B, 2009, 79, . BaFe_2As_2	3.2	92
215	In situ high energy x-ray synchrotron diffraction study of the synthesis and stoichiometry of $\text{LaFeAsO}_{1-x}\text{F}_x$. Journal of Applied Physics, 2009, 105, 123912.	2.5	10
216	Absence of superconductivity in single-phase CaFe_2As_2 under hydrostatic pressure. Physical Review B, 2009, 79, . CaFe_2As_2	3.2	156

#	ARTICLE	IF	CITATIONS
217	<p>Thermal expansion and anisotropic pressure derivatives of</p> $\frac{\partial \ln V}{\partial T} = \frac{1}{V} \left(\frac{\partial V}{\partial T} \right)_P$		

#	ARTICLE	IF	CITATIONS
235	Magnetism and superconductivity in rare earth nickel borocarbides. <i>Comptes Rendus Physique</i> , 2006, 7, 56-67.	0.9	36
236	Physical properties of $\text{Lu}_{1-x}\text{Yb}_x\text{Ni}_2\text{B}_2\text{C}$. <i>Philosophical Magazine</i> , 2006, 86, 3021-3041.	1.6	4
237	Magnetic-field-induced quantum critical point in YbPtIn and $\text{YbPt}_{0.98}\text{In}$ single crystals. <i>Physical Review B</i> , 2006, 73, .	3.2	13
238	Versatile and compact capacitive dilatometer. <i>Review of Scientific Instruments</i> , 2006, 77, 123907.	1.3	93
239	Effect of pressure and chemical substitutions on the charge-density-wave in LaAgSb_2 . <i>Physical Review B</i> , 2006, 73, .	3.2	20
240	Magnetic-field-induced orientation of superconducting MgB_2 crystallites determined by x-ray diffraction. <i>Physical Review B</i> , 2006, 74, .	3.2	1
241	Systematic study of the superconducting and normal-state properties of neutron-irradiated MgB_2 . <i>Physical Review B</i> , 2006, 73, .	3.2	49
242	Energy gaps in doped MgB_2 . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 1743-1748.	0.8	5
243	Imaging antiferromagnetic domains in GdNi_2Ge_2 with x-ray resonant magnetic scattering. <i>Applied Physics Letters</i> , 2005, 87, 202505.	3.3	6
244	Field-dependent Hall effect in single-crystal heavy-fermion YbAgGe below 1K. <i>Physical Review B</i> , 2005, 72, .	3.2	23
245	Kondo insulator description of spin state transition in FeSb_2 . <i>Physical Review B</i> , 2005, 72, .	3.2	113
246	Neutron scattering study of TbPtIn intermetallic compound. <i>Journal of Applied Physics</i> , 2004, 95, 6921-6923.	2.5	12
247	Systematic study of two-band/two-gap superconductivity in carbon-substituted MgB_2 by point-contact spectroscopy. <i>Physical Review B</i> , 2004, 70, .	3.2	54
248	Anisotropy and internal-field distribution of MgB_2 in the mixed state at low temperatures. <i>Physical Review B</i> , 2004, 70, .	3.2	27
249	Absence of a boron isotope effect in the magnetic penetration depth of MgB_2 . <i>Physical Review B</i> , 2004, 70, .	3.2	16
250	CVD Routes to MgB_2 Conductors. <i>ChemInform</i> , 2003, 34, no.	0.0	0
251	Observation of domain boundaries in a $\text{TbNi}_2\text{B}_2\text{C}$ single crystal. <i>JETP Letters</i> , 2003, 77, 502-504.	1.4	6
252	Two-band/two-gap superconductivity in carbon-substituted MgB_2 evidenced by point-contact spectroscopy. <i>Physical Review B</i> , 2003, 68, .	3.2	53

#	ARTICLE	IF	CITATIONS
253	Charge-density-wave orderings in LaAgSb ₂ : An x-ray scattering study. Physical Review B, 2003, 68, .	3.2	50
254	NMR spectroscopy of the normal and superconducting states of MgB ₂ and comparison to AlB ₂ . Physical Review B, 2002, 66, .	3.2	34
255	MAGNETOTRANSPORT AND THE MAGNETIC PHASE DIAGRAM OF SUPERCONDUCTING ErNi ₂ B ₂ C. International Journal of Modern Physics B, 2002, 16, 3212-3215.	2.0	3
256	Basic properties and possible high superconducting anisotropy of MgB ₂ sintered powders and wire segments. AIP Conference Proceedings, 2002, , .	0.4	2
257	Microwave properties of superconducting MgB ₂ . Applied Physics Letters, 2001, 78, 4160-4162.	3.3	16
258	X-ray magnetic circular dichroism study of TbNi ₂ B ₂ C. Physical Review B, 2001, 64, .	3.2	9
259	Superconducting MgB ₂ thin films by pulsed laser deposition. Applied Physics Letters, 2001, 79, 227-229.	3.3	92
260	¹¹ B NMR and relaxation in the MgB ₂ superconductor. Physical Review B, 2001, 64, .	3.2	33
261	Superconductivity in presence of localized magnetic moments. Case study of Er(Ni,Co) ₂ B ₂ C. Physica B: Condensed Matter, 2000, 280, 356-361.	2.7	8
262	Design of a metallic Ising spin glass in the Y _{1-x} Tb _x Ni ₂ Ge ₂ system. Physical Review B, 2000, 62, 15056-15066.	3.2	15
263	Effects of Band Filling on Magnetic Structures: The Case of RNi ₂ Ge ₂ . Physical Review Letters, 1999, 83, 2817-2820.	7.8	19
264	TRANSITION FROM HEAVY FERMION METAL TO 16 K SUPERCONDUCTOR IN SINGLE CRYSTAL Yb _x Lu _(1-x) Ni ₂ B ₂ C: TRANSPORT STUDIES. International Journal of Modern Physics B, 1999, 13, 3725-3728.	2.0	7
265	de Haas-van Alphen and Shubnikov-de Haas oscillations in RAgSb ₂ (R=Y, La-Nd, Sm). Physical Review B, 1999, 60, 13371-13379.	3.2	45