

Johnpierre Paglione

List of Publications by Year in descending order

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167
docs citations

167
times ranked

9633
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge density wave activated excitons in TiSe ₂ –MoSe ₂ heterostructures. APL Materials, 2022, 10, .	2.2	6
2	Interplay between magnetism and superconductivity in UTe_2 . Physical Review B, 2022, 105, .	2.0	10
3	Observation of a Flat and Extended Surface State in a Topological Semimetal. Materials, 2022, 15, 2744.	1.3	1
4	Symmetry of magnetic correlations in spin-triplet superconductor UTe ₂ . Npj Quantum Materials, 2022, 7, .	1.8	11
5	Physical properties and electronic structure of single-crystal KCo_2 . Physical Review Materials, 2022, 6, .	1.0	2
6	Giant topological longitudinal circular photo-galvanic effect in the chiral multifold semimetal CoSi. Nature Communications, 2021, 12, 154.	5.8	89
7	Crystalline symmetry-protected non-trivial topology in prototype compound BaAl ₄ . Npj Quantum Materials, 2021, 6, .	1.8	7
8	Topologically driven linear magnetoresistance in helimagnetic FeP. Npj Quantum Materials, 2021, 6, .	1.8	18
9	Anomalous normal fluid response in a chiral superconductor UTe ₂ . Nature Communications, 2021, 12, 2644.	5.8	38
10	Bulk transport paths through defects in floating zone and Al flux grown SmB_6 . Physical Review Materials, 2021, 5, .	1.0	6
11	Campbell penetration depth in low carrier density superconductor YPtBi. Physical Review B, 2021, 104, .	1.1	3
12	Comparison of Two Different Synthesis Methods of Single Crystals of Superconducting Uranium Ditelluride. Journal of Visualized Experiments, 2021, , .	0.2	4
13	Multiple Charge Density Waves and Superconductivity Nucleation at Antiphase Domain Walls in the Nematic Pnictide $BaFe_2As_2$. Physical Review Letters, 2021, 127, 027602.	2.9	22
14	Multicomponent superconducting order parameter in UTe ₂ . Science, 2021, 373, 797-801.	6.0	83
15	Coupled spin waves and crystalline electric field levels in candidate multiferroic ErFeO ₃ . Journal of Applied Physics, 2021, 130, .	1.1	6
16	Expansion of the high field-boosted superconductivity in UTe ₂ under pressure. Npj Quantum Materials, 2021, 6, .	1.8	15
17	Artificial intelligence for search and discovery of quantum materials. Communications Materials, 2021, 2, .	2.9	29
18	Imaging emergent heavy Dirac fermions of a topological Kondo insulator. Nature Physics, 2020, 16, 52-56.	6.5	47

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19	Sixfold enhancement of superconductivity in a tunable electronic nematic system. Nature Physics, 2020, 16, 346-350.	6.5	45
20	Optical signatures of multifold fermions in the chiral topological semimetal CoSi. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27104-27110.	3.3	37
21	Tuning magnetic confinement of spin-triplet superconductivity. Npj Quantum Materials, 2020, 5, .	1.8	31
22	Quantum-critical scale invariance in a transition metal alloy. Communications Physics, 2020, 3, .	2.0	22
23	Electrical detection of the inverse Edelstein effect on the surface of SmB_6 . Physical Review B, 2020, 102, .	1.1	4
24	Quantum oscillations from networked topological interfaces in a Weyl semimetal. Npj Quantum Materials, 2020, 5, .	1.8	9
25	Refine Intervention: Characterizing Disordered $\text{Yb}_{0.5}\text{Co}_3\text{Ge}_3$. Crystal Growth and Design, 2020, 20, 6715-6721.	1.4	8
26	Pressure-induced suppression of ferromagnetism in the itinerant ferromagnet LaCrSb_3 . Physical Review B, 2020, 101, .	1.1	2
27	Low Energy Band Structure and Symmetries of UTe_2 . Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2020, 124, 076401.	2.9	59
28	Comprehensive surface magnetotransport study of SmB_6 . Physical Review B, 2020, 101, .	1.1	1
29	Enhancement and reentrance of spin triplet superconductivity in UTe_2 under pressure. Physical Review B, 2020, 101, .	1.1	48
30	Long-range magnetic order in hydroxide-layer-doped $(\text{Li}_{1-x}\text{Fe}_x\text{MnyOD})\text{FeSe}$. Physical Review Materials, 2020, 4, .	0.9	3
31	Nearly ferromagnetic spin-triplet superconductivity. Science, 2019, 365, 684-687.	6.0	351
32	Electrical detection of the surface spin polarization of the candidate topological Kondo insulator SmB_6 . Physical Review B, 2019, 99, .	1.1	13
33	Unconventional Josephson junctions with topological Kondo insulator weak links. Physical Review B, 2019, 100, .	1.1	3
34	Intrinsic Low-Temperature Magnetism in SmB_6 . Physical Review Letters, 2019, 123, 197203.	2.9	11
35	Coexistence of ferromagnetic fluctuations and superconductivity in the actinide superconductor UTe_2 . Physical Review B, 2019, 100, .	1.1	87
36	Observation of two collapsed phases in CaRbF_4 . Physical Review B, 2019, 100, .	1.1	9

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37	Perfect Andreev reflection due to the Klein paradox in a topological superconducting state. Nature, 2019, 570, 344-348.	13.7	38
38	Law and Disorder: Special Stacking Units Building the Intergrowth Ce ₆ Co ₅ Ge ₁₆ . Inorganic Chemistry, 2019, 58, 6037-6043.	1.9	11
39	Unconventional Charge Density Wave Order in the Pnictide Superconductor Ba		

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55	Ambipolar surface state transport in nonmetallic stoichiometric Bi_2Te_3 crystals. Physical Review B, 2017, 95, .		
56	Influence of Shape Anisotropy and Temperature on Magnetostrictive Behavior in Single-Crystal Galfenol Alloys. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	0
57	Superconductivity and magnetism in iron sulfides intercalated by metal hydroxides. Chemical Science, 2017, 8, 3781-3788.	3.7	41
58	Quantum spin fluctuations in the bulk insulating state of pure and Fe-doped SmB_6 . Physical Review B, 2017, 95, .		
59	Quantum oscillations in the anomalous spin density wave state of FeAs. Physical Review B, 2017, 96, .	1.1	3
60	Influence of shape anisotropy and temperature on magnetostrictive behaviors in single crystal Galfenol alloys. , 2017, , .		0
61	Metastable Layered Cobalt Chalcogenides from Topochemical Deintercalation. Journal of the American Chemical Society, 2016, 138, 16432-16442.	6.6	61
62	Role of electron-electron interactions in the charge dynamics of rare-earth-doped CaF_2 . Physical Review B, 2016, 94, .	1.1	8
63	Strong anisotropy in nearly ideal tetrahedral superconducting FeS single crystals. Physical Review B, 2016, 93, .	1.1	67
64	Breakdown of compensation and persistence of nonsaturating magnetoresistance in gated WT_2e thin flakes. Physical Review B, 2016, 93, .	1.1	49
65	Pressure-Resistant Intermediate Valence in the Kondo Insulator SmB_6 . Physical Review Letters, 2016, 116, 156401.	2.9	30
66	Quantum Critical Quasiparticle Scattering within the Superconducting State of CeCoIn_5 . Physical Review Letters, 2016, 117, 016601.	2.9	7
67	Observation of the Superconducting Proximity Effect in the Surface State of SmB_6 Thin Films. Physical Review X, 2016, 6, .	2.8	19
68	Electrical and thermal transport properties of the electron-doped cuprate $\text{Sm}_{2-x}\text{Ce}_x\text{CuO}_4$ system. Journal of Physics Condensed Matter, 2016, 28, 485702.	0.7	2
69	The preparation and phase diagrams of $(\text{Li}_{1-x}\text{Fe}_x\text{OD})\text{FeSe}$ and $(\text{Li}_{1-x}\text{Fe}_x\text{OH})\text{FeSe}$ superconductors. Journal of Materials Chemistry C, 2016, 4, 3934-3941.	2.7	31
70	One-dimensional edge state transport in a topological Kondo insulator. Nature Physics, 2016, 12, 213-217.	6.5	76
71	Tunable electronic anisotropy in single-crystal $\text{A}_2\text{Cr}_3\text{As}_3$ (A=K, Rb) quasi-one-dimensional superconductors. Physical Review B, 2015, 92, .	1.1	24
72	Neutron investigation of the magnetic scattering in an iron-based ferromagnetic superconductor. Physical Review B, 2015, 92, .	1.1	24

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73	Creating nanostructured superconductors on demand by local current annealing. <i>Physical Review B</i> , 2015, 92, .	1.1	10
74	Topological PdBi half-Heusler semimetals: A new family of noncentrosymmetric magnetic superconductors. <i>Science Advances</i> , 2015, 1, e1500242.	4.7	166
75	Tuning Bulk and Surface Conduction in the Proposed Topological Kondo Insulator SmB_6 . <i>Physical Review Letters</i> , 2015, 114, 096601.	2.9	115
76	High-temperature superconductivity stabilized by electron-hole interband coupling in collapsed tetragonal phase of KFe_2As_2 under high pressure. <i>Physical Review B</i> , 2015, 91, .	1.1	37
77	Publisher's Note: High-temperature superconductivity stabilized by electron-hole interband coupling in collapsed tetragonal phase of KFe_2As_2 under high pressure [Phys. Rev. B 91, 060508(R) (2015)]. <i>Physical Review B</i> , 2015, 91, .	1.1	1
78	Isotropic multi-gap superconductivity in $\text{BaFe}_{1.9}\text{Pt}_{0.1}\text{As}_2$ from thermal transport and spectroscopic measurements. <i>Superconductor Science and Technology</i> , 2015, 28, 014004.	1.8	3
79	Air-stable doping of Bi_2Se_3 by MoO_3 into the topological regime. , 2014, , .		0
80	Persistent Fe moments in the normal-state collapsed-tetragonal phase of the pressure-induced superconductor $\text{Ca}_{0.67}\text{Sr}_{0.33}\text{Fe}_2\text{As}_2$. <i>Physical Review B</i> , 2014, 90, .	1.1	8
81	Ambipolar Surface State Thermoelectric Power of Topological Insulator Bi_2Se_3 . <i>Nano Letters</i> , 2014, 14, 1701-1706.	4.5	56
82	Segregation of antiferromagnetism and high-temperature superconductivity in $\text{Ca}_{1-x}\text{La}_x\text{Fe}_2\text{As}_2$. <i>Physical Review B</i> , 2014, 89, .	1.1	15
83	The RELiSn_2 (RE=La, Nd, Sm, and Gd; $0 \leq x \leq 1$) series revisited. Synthesis, crystal chemistry, and magnetic susceptibilities. <i>Journal of Solid State Chemistry</i> , 2014, 211, 95-105.	1.4	11
84	Air-Stable Electron Depletion of Bi_2Se_3 Using Molybdenum Trioxide into the Topological Regime. <i>ACS Nano</i> , 2014, 8, 6400-6406.	7.3	29
85	Biofunctionalized Gadolinium-Containing Prussian Blue Nanoparticles as Multimodal Molecular Imaging Agents. <i>Bioconjugate Chemistry</i> , 2014, 25, 129-137.	1.8	73
86	Stability and Surface Reconstruction of Topological Insulator Bi_2Se_3 on Exposure to Atmosphere. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20413-20419.	1.5	62
87	Spin-State Transition in the Fe Pnictides. <i>Physical Review Letters</i> , 2013, 110, 047003.	2.9	56
88	Pressure-Induced Unconventional Superconducting Phase in the Topological Insulator Bi_2Se_3 . <i>Physical Review Letters</i> , 2013, 111, 087001.	2.9	195
89	Polarity-Driven Surface Metallicity in SmB_6 . <i>Physical Review Letters</i> , 2013, 111, 216402.	2.9	112
90	Rare-earth metal gallium silicides via the gallium self-flux method. Synthesis, crystal structures, and magnetic properties of $\text{RE}(\text{Ga}_{1-x}\text{Si}_x)_2$ (RE=Y, La, Nd, Sm, Gd, Yb, Lu). <i>Journal of Solid State Chemistry</i> , 2013, 201, 191-203.	1.4	5

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91	Magnetothermoelectric properties of Bi_2Se_3 . Physical Review Letters, 2013, 110, 216401.	1.1	49
92	Hybridization, Inter-Ion Correlation, and Surface States in the Kondo Insulator SmB_6 . Physical Review X, 2013, 3, .	2.8	143
93	Layer-By-Layer Entangled Spin-Orbital Texture of the Topological Surface State in Bi_2Se_3 . Physical Review Letters, 2013, 110, 216401.	2.9	107
94	Coherent topological transport on the surface of Bi_2Se_3 . Nature Communications, 2013, 4, 2040.	5.8	116
95	Quenched Fe moment in the collapsed tetragonal phase of $\text{Ca}_2\text{PrFe}_2\text{As}_2$. Chinese Physics B, 2013, 22, 057401.	0.7	15
96	Universal pair-breaking in transition-metal-substituted iron-pnictide superconductors. Physical Review B, 2012, 86, .	1.1	29
97	Tuning magnetism in FeAs-based materials via a tetrahedral structure. Physical Review B, 2012, 86, .	1.1	14
98	Structural collapse and superconductivity in rare-earth-doped CaFeAs_2 . Physical Review B, 2012, 85, .	1.1	145
99	Rare earth substitution in lattice-tuned $\text{Sr}_{0.3}\text{Ca}_{0.7}\text{Fe}_2\text{As}_2$ solid solutions. Superconductor Science and Technology, 2012, 25, 084014.	1.8	1
100	Surface conduction of topological Dirac electrons in bulk insulating Bi_2Se_3 . Nature Physics, 2012, 8, 459-463.	6.5	330
101	New rare-earth metal germanides with bismuth substitution. Synthesis, structural variations, and magnetism of the $\text{RE}[\text{Bi}_x\text{Ge}_{1-x}]_2$ (RE=Y, Pr, Nd, Sm, Gd, Tm, Lu) compounds. Journal of Solid State Chemistry, 2012, 196, 586-595.	1.4	9
102	Synthesis, Structure, Chemical Bonding, and Magnetism of the Series RELiGe_2 (RE=La, Nd, Sm, Eu). Inorganic Chemistry, 2012, 51, 620-628.	1.9	33
103	Quantum critical scaling at the edge of Fermi liquid stability in a cuprate superconductor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8440-8444.	3.3	43
104	High pressure transport properties of the topological insulator Bi_2Se_3 . Journal of Physics Condensed Matter, 2012, 24, 035602.	0.7	52
105	Intrinsic Electron-Phonon Resistivity of Bi_2Se_3 in the Topological Regime. Physical Review Letters, 2012, 109, 166801.	2.9	73
106	Topological Insulator Quantum Dot with Tunable Barriers. Nano Letters, 2012, 12, 469-472.	4.5	50
107	Towards spin injection from silicon into topological insulators: Schottky barrier between Si and Bi_2Se_3 . Applied Physics Letters, 2012, 101, .	1.5	28
108	Suppression of magnetism and development of superconductivity within the collapsed tetragonal phase of Ca_6O_7 . Physical Review Letters, 2012, 109, 166801.	1.1	32

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109	Insulating Behavior in Ultrathin Bismuth Selenide Field Effect Transistors. Nano Letters, 2011, 11, 1925-1927.	4.5	152
110	Phase separation and superconductivity in Fe _{1+x} Te _{0.5} Se _{0.5} . Chemical Communications, 2011, 47, 11297.	2.2	22
111	Rashba Spin-Splitting Control at the Surface of the Topological Insulator Bi ₂ Se ₃ . Physical Review Letters, 2011, 107, 186405.	2.9	169
112	Chemical control of interstitial iron leading to superconductivity in Fe _{1+x} Te _{0.7} Se _{0.3} . Chemical Science, 2011, 2, 1782.	3.7	53
113	High-temperature resistivity in the iron pnictides and the electron-doped cuprates. Physical Review B, 2011, 83, .	1.1	24
114	Uniform chemical pressure effect in solid solutions Ba _{1-x} Sr _x Fe ₂ As ₂ and Sr _{1-x} Ca _x Fe ₂ As ₂ . Journal of Physics: Conference Series, 2011, 273, 012104.	0.3	9
115	Superconductivity in the topological semimetal YPtBi. Physical Review B, 2011, 84, .	1.1	201
116	Sr adatoms on As bridge positions on SrFe ₂ As ₂ observed by scanning tunneling microscopy at 4.2 K. Journal of Physics Condensed Matter, 2011, 23, 265702.	0.7	4
117	Topological Insulator Bi ₂ Se ₃ . Physical Review Letters, 2011, 107, 186405.	1.1	106
118	Correlated Electron State in Ce _{1-x} Mo _x by Cooperative Valence Fluctuations. Physical Review Letters, 2011, 106, 156403.	2.0	28
119	Noncollinear spin-density-wave antiferromagnetism in FeAs. Physical Review B, 2011, 83, .	1.1	57
120	Interplay between magnetism, structure, and strong electron-phonon coupling in binary FeAs under pressure. Physical Review B, 2011, 83, .	1.1	11
121	Nitrogen contamination in elastic neutron scattering. Measurement Science and Technology, 2011, 22, 047001.	1.4	2
122	Link between spin fluctuations and electron pairing in copper oxide superconductors. Nature, 2011, 476, 73-75.	13.7	171
123	Annealing effects on superconductivity in SrFe ₂ As ₂ . Physica C: Superconductivity and Its Applications, 2010, 470, S379-S381.	0.6	14
124	High-temperature superconductivity in iron-based materials. Nature Physics, 2010, 6, 645-658.	6.5	1,292
125	Effective carrier type and field dependence of the reduced superconducting state in SrFe ₂ As ₂ . Physical Review B, 2010, 81, .	1.1	29
126	Evidence of a universal and isotropic k_F in 122-type iron pnictide superconductors over a wide doping range. Physical Review B, 2010, 82, .	1.1	21

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127	Resistivity at low temperatures in electron-doped cuprate superconductors. Physical Review B, 2010, 82, .	1.1	11
128	Superfluid density and field-induced magnetism in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ and $\text{Sr}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ measured with muon spin relaxation. Physical Review B, 2010, 82, .	1.1	36
129	Phase Separation and Suppression of the Structural and Magnetic Transitions in Superconducting Doped Iron Tellurides, $\text{Fe}_{1+x}\text{Te}_{1-y}\text{S}_y$. Journal of the American Chemical Society, 2010, 132, 13000-13007.	6.6	62
130	Terahertz Kerr and reflectivity measurements on the topological insulator Bi_2Te_3 . Physical Review B, 2010, 82, .	1.1	60
131	Strong surface scattering in ultrahigh-mobility insulator crystals. Physical Review B, 2010, 81, .	1.1	382
132	Superconductivity at 23 K in Pt doped BaFe_2As_2 single crystals. Journal of Physics Condensed Matter, 2010, 22, 072204.	0.7	49
133	Far-infrared cyclotron resonance and Faraday effect in Bi_2Se_3 . Physical Review B, 2010, 82, .	1.1	68
134	Superconductivity and magnetism in platinum-substituted SrFe_2As_2 crystals. Physical Review B, 2010, 82, .	1.1	20
135	Superconductivity in the iron-pnictide parent compound SrFe_2As_2 . , 2009, .		0
136	Evolution of bulk superconductivity in $\text{SrFe}_{2-x}\text{Ni}_x\text{As}_2$ Ni substitution. Physical Review B, 2009, 79, .	1.1	68
137	Josephson effect between electron-doped and hole-doped iron pnictide single crystals. Applied Physics Letters, 2009, 95, 062510.	1.5	34
138	Superconducting and Ferromagnetic Phases Induced by Lattice Distortions in Stoichiometric SrFe_2As_2 Crystals. Physical Review Letters, 2009, 103, 037005.	2.9	94
139	Observation of de Haas-van Alphen oscillations across the phase diagram of $\text{CeRh}_1-x\text{Co}_x\text{In}_5$. Journal of Physics: Conference Series, 2009, 150, 042193.	0.3	4
140	Magnetic ordering in $\text{PrFe}_4\text{As}_{12}$. Physica B: Condensed Matter, 2008, 403, 869-870.	1.3	3
141	Fermi-Surface Reconstruction in $\text{CeRh}_1-x\text{Co}_x\text{In}_5$. Physical Review Letters, 2008, 101, 056402.	1.1	19
142	Thermodynamic and transport studies of the ferromagnetic filled skutterudite compound $\text{PrFe}_4\text{As}_{12}$. Physical Review B, 2008, 77, .	1.1	23
143	Conductivity deep in the magnetic state of $\text{CeRh}_1-x\text{Co}_x\text{In}_5$. Physical Review B, 2008, 77, .	1.1	20
144	Doping dependence of the superconducting gap in $\text{Tl}_2\text{Ba}_2\text{CuO}_6 + \delta$ from heat transport. Physical Review B, 2007, 75, .	1.1	38

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145	Anisotropic Violation of the Wiedemann-Franz Law at a Quantum Critical Point. <i>Science</i> , 2007, 316, 1320-1322.	6.0	119
146	Incoherent non-Fermi-liquid scattering in a Kondo lattice. <i>Nature Physics</i> , 2007, 3, 703-706.	6.5	60
147	Thermal Conductivity in the Vicinity of the Quantum Critical End Point in Sr ₃ Ru ₂ O ₇ . <i>Physical Review Letters</i> , 2006, 97, 067005.	2.9	27
148	Nonvanishing Energy Scales at the Quantum Critical Point of CeCoIn ₅ . <i>Physical Review Letters</i> , 2006, 97, 106606.	2.9	86
149	Origin of anomalous low-temperature downturns in the thermal conductivity of cuprates. <i>Physical Review B</i> , 2005, 71, .	1.1	51
150	Heat Transport as a Probe of Electron Scattering by Spin Fluctuations: The Case of Antiferromagnetic CeRhIn ₅ . <i>Physical Review Letters</i> , 2005, 94, 216602.	2.9	43
151	Delocalized Fermions in Underdoped Cuprate Superconductors. <i>Physical Review Letters</i> , 2005, 94, 147004.	2.9	61
152	Unpaired Electrons in the Heavy-Fermion Superconductor CeCoIn ₅ . <i>Physical Review Letters</i> , 2005, 95, 067002.	2.9	94
153	Giant Electron-Electron Scattering in the Fermi-Liquid State of Na _{0.7} CoO ₂ . <i>Physical Review Letters</i> , 2004, 93, 056401.	2.9	119
154	Field-induced thermal metal-to-insulator transition in underdoped LSCO. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 725-726.	0.6	1
155	Doping dependence of superconducting gap in YBa ₂ Cu ₃ O _y from universal heat transport. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 672-673.	0.6	2
156	Field-induced quantum critical point in CeCoIn ₅ . <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 705-706.	0.6	15
157	Multi-band superconductivity in NbSe ₂ from heat transport. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 727-728.	0.6	5
158	Elastic tensor of YNi ₂ B ₂ C. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 397, 1-6.	0.6	9
159	Heat Conduction in the Vortex State of NbSe ₂ : Evidence for Multiband Superconductivity. <i>Physical Review Letters</i> , 2003, 90, 117003.	2.9	210
160	Field-Induced Quantum Critical Point in CeCoIn ₅ . <i>Physical Review Letters</i> , 2003, 91, 246405.	2.9	314
161	Field-Induced Thermal Metal-to-Insulator Transition in Underdoped La _{2-x} Sr _x CuO ₄ +δ. <i>Physical Review Letters</i> , 2003, 90, 197004.	2.9	43
162	Elastic tensor of Sr ₂ RuO ₄ . <i>Physical Review B</i> , 2002, 65, .	1.1	38