

Johnpierre Paglione

List of Publications by Year in descending order

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162
papers

9,386
citations

38742

50
h-index

39675

94
g-index

167
all docs

167
docs citations

167
times ranked

8671
citing authors

#	ARTICLE	IF	CITATIONS
1	High-temperature superconductivity in iron-based materials. Nature Physics, 2010, 6, 645-658.	16.7	1,292
2	Strong surface scattering in ultrahigh-mobility insulator crystals. Physical Review B, 2010, 81, . $\langle \text{Bi} \rangle_2$	3.2	382
3	Nearly ferromagnetic spin-triplet superconductivity. Science, 2019, 365, 684-687.	12.6	351
4	Surface conduction of topological Dirac electrons in bulk insulating Bi ₂ Se ₃ . Nature Physics, 2012, 8, 459-463.	16.7	330
5	Field-Induced Quantum Critical Point in CeCoIn ₅ . Physical Review Letters, 2003, 91, 246405.	7.8	314
6	Machine learning modeling of superconducting critical temperature. Npj Computational Materials, 2018, 4, .	8.7	274
7	Heat Conduction in the Vortex State of NbSe ₂ : Evidence for Multiband Superconductivity. Physical Review Letters, 2003, 90, 117003.	7.8	210
8	Superconductivity in the topological semimetal YPtBi. Physical Review B, 2011, 84, .	3.2	201
9	Pressure-Induced Unconventional Superconducting Phase in the Topological Insulator $\langle \text{Bi} \rangle_2 \langle \text{Se} \rangle$ Physical Review Letters, 2013, 111, 087001.	7.8	195
10	Link between spin fluctuations and electron pairing in copper oxide superconductors. Nature, 2011, 476, 73-75.	27.8	171
11	Rashba Spin-Splitting Control at the Surface of the Topological Insulator $\langle \text{Bi} \rangle_2 \langle \text{Se} \rangle$ Physical Review Letters, 2011, 107, 186405.	7.8	169
12	Topological $\langle \text{R} \rangle$ PdBi half-Heusler semimetals: A new family of noncentrosymmetric magnetic superconductors. Science Advances, 2015, 1, e1500242.	10.3	166
13	Insulating Behavior in Ultrathin Bismuth Selenide Field Effect Transistors. Nano Letters, 2011, 11, 1925-1927.	9.1	152
14	Structural collapse and superconductivity in rare-earth-doped CaFe $\langle \text{As} \rangle$ Physical Review B, 2012, 85, .	3.2	145
15	Hybridization, Inter-Ion Correlation, and Surface States in the Kondo Insulator $\langle \text{SmB} \rangle_6$ Physical Review X, 2013, 3, .	8.9	143
16	Extreme magnetic field-boosted superconductivity. Nature Physics, 2019, 15, 1250-1254.	16.7	138
17	Beyond triplet: Unconventional superconductivity in a spin-3/2 topological semimetal. Science Advances, 2018, 4, eaao4513.	10.3	130
18	Giant Electron-Electron Scattering in the Fermi-Liquid State of Na _{0.7} CoO ₂ . Physical Review Letters, 2004, 93, 056401.	7.8	119

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19	Anisotropic Violation of the Wiedemann-Franz Law at a Quantum Critical Point. <i>Science</i> , 2007, 316, 1320-1322.	12.6	119
20	Coherent topological transport on the surface of Bi ₂ Se ₃ . <i>Nature Communications</i> , 2013, 4, 2040.	12.8	116
21	Tuning Bulk and Surface Conduction in the Proposed Topological Kondo Insulator $S\text{mB}_6$. <i>Physical Review Letters</i> , 2015, 114, 096601.	7.8	115
22	Polarity-Driven Surface Metallicity in $S\text{mB}_6$. <i>Physical Review Letters</i> , 2013, 111, 216402.	7.8	112
23	Layer-By-Layer Entangled Spin-Orbital Texture of the Topological Surface State in Bi_2Se_3 . <i>Physical Review Letters</i> , 2013, 111, 216401.	7.8	107
24	Spatially resolved femtosecond pump-probe study of topological insulator Bi_2Se_3 . <i>Physical Review Letters</i> , 2013, 111, 216401.	3.2	106
25	Unpaired Electrons in the Heavy-Fermion Superconductor CeCoIn_5 . <i>Physical Review Letters</i> , 2005, 95, 067002.	7.8	94
26	Superconducting and Ferromagnetic Phases Induced by Lattice Distortions in Stoichiometric SrFe_2As_2 Crystals. <i>Physical Review Letters</i> , 2009, 103, 037005.	7.8	94
27	Giant topological longitudinal circular photo-galvanic effect in the chiral multifold semimetal CoSi . <i>Nature Communications</i> , 2021, 12, 154.	12.8	89
28	Coexistence of ferromagnetic fluctuations and superconductivity in the actinide superconductor UTe_2 . <i>Physical Review B</i> , 2019, 100, .	3.2	87
29	Nonvanishing Energy Scales at the Quantum Critical Point of CeCoIn_5 . <i>Physical Review Letters</i> , 2006, 97, 106606.	7.8	86
30	Multicomponent superconducting order parameter in UTe_2 . <i>Science</i> , 2021, 373, 797-801.	12.6	83
31	One-dimensional edge state transport in a topological Kondo insulator. <i>Nature Physics</i> , 2016, 12, 213-217.	16.7	76
32	Intrinsic Electron-Phonon Resistivity of Bi_2Se_3 in the Topological Regime. <i>Physical Review Letters</i> , 2012, 109, 166801.	7.8	73
33	Biofunctionalized Gadolinium-Containing Prussian Blue Nanoparticles as Multimodal Molecular Imaging Agents. <i>Bioconjugate Chemistry</i> , 2014, 25, 129-137.	3.6	73
34	Point-node gap structure of the spin-triplet superconductor UTe_2 . <i>Physical Review B</i> , 2019, 100, .	3.2	69
35	Far-infrared cyclotron resonance and Faraday effect in Bi_2Se_3 . <i>Physical Review B</i> , 2010, 82, .	3.2	68
36	Strong anisotropy in nearly ideal tetrahedral superconducting FeS single crystals. <i>Physical Review B</i> , 2016, 93, .	3.2	67

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37	Evolution of bulk superconductivity in $\text{SrFe}_{1-x}\text{Ni}_x$ substitution. Physical Review B, 2009, 79, .	23.2	63
38	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.	13.7	62
39	Stability and Surface Reconstruction of Topological Insulator Bi_2Se_3 on Exposure to Atmosphere. Journal of Physical Chemistry C, 2014, 118, 20413-20419.	3.1	62
40	Delocalized Fermions in Underdoped Cuprate Superconductors. Physical Review Letters, 2005, 94, 147004.	7.8	61
41	Metastable Layered Cobalt Chalcogenides from Topochemical Deintercalation. Journal of the American Chemical Society, 2016, 138, 16432-16442.	13.7	61
42	Incoherent non-Fermi-liquid scattering in a Kondo lattice. Nature Physics, 2007, 3, 703-706.	16.7	60
43	Terahertz Kerr and reflectivity measurements on the topological insulator Bi_2Te_3 . Physical Review B, 2010, 82, .	3.2	60
44	Low Energy Band Structure and Symmetries of UTe_2 . Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2020, 124, 076401.	7.8	59
45	Noncollinear spin-density-wave antiferromagnetism in FeAs . Physical Review B, 2011, 83, .	3.2	57
46	Spin-State Transition in the Fe Pnictides. Physical Review Letters, 2013, 110, 047003.	7.8	56
47	Ambipolar Surface State Thermoelectric Power of Topological Insulator Bi_2Se_3 . Nano Letters, 2014, 14, 1701-1706.	9.1	56
48	Chemical control of interstitial iron leading to superconductivity in $\text{Fe}_{1+x}\text{Te}_{0.7}\text{Se}_{0.3}$. Chemical Science, 2011, 2, 1782.	7.4	53
49	High pressure transport properties of the topological insulator Bi_2Se_3 . Journal of Physics Condensed Matter, 2012, 24, 035602.	1.8	52
50	Origin of anomalous low-temperature downturns in the thermal conductivity of cuprates. Physical Review B, 2005, 71, .	3.2	51
51	Fermi-Surface Reconstruction in $\text{CeRh}_{1-x}\text{Ir}_x$. Physical Review Letters, 2008, 101, 056402.	7.8	51
52	Single-crystal investigation of the proposed type-II Weyl semimetal CeAlGe . Physical Review B, 2018, 98, .	3.2	51
53	Topological Insulator Quantum Dot with Tunable Barriers. Nano Letters, 2012, 12, 469-472.	9.1	50
54	Superconductivity at 23 K in Pt doped BaFe_2As_2 single crystals. Journal of Physics Condensed Matter, 2010, 22, 072204.	1.8	49

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55	Magneto-thermoelectric properties of Bi_2Se_3 . Physical Review B, 2013, 87, .	3.2	49
56	Breakdown of compensation and persistence of nonsaturating magnetoresistance in gated WT_eMn_2 thin flakes. Physical Review B, 2016, 93, .	3.2	49
57	Enhancement and reentrance of spin triplet superconductivity in UTe_2 under pressure. Physical Review B, 2020, 101, .	3.2	48
58	Imaging emergent heavy Dirac fermions of a topological Kondo insulator. Nature Physics, 2020, 16, 52-56.	16.7	47
59	Sixfold enhancement of superconductivity in a tunable electronic nematic system. Nature Physics, 2020, 16, 346-350.	16.7	45
60	Field-Induced Thermal Metal-to-Insulator Transition in Underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. Physical Review Letters, 2003, 90, 197004.	7.8	43
61	Heat Transport as a Probe of Electron Scattering by Spin Fluctuations: The Case of Antiferromagnetic CeRhIn_5 . Physical Review Letters, 2005, 94, 216602.	7.8	43
62	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.	7.1	43
63	Superconductivity and magnetism in iron sulfides intercalated by metal hydroxides. Chemical Science, 2017, 8, 3781-3788.	7.4	41
64	Elastic tensor of Sr_2RuO_4 . Physical Review B, 2002, 65, .	3.2	38
65	Doping dependence of the superconducting gap in $\text{Tl}_2\text{Ba}_2\text{CuO}_6$ from heat transport. Physical Review B, 2007, 75, .	3.2	38
66	Perfect Andreev reflection due to the Klein paradox in a topological superconducting state. Nature, 2019, 570, 344-348.	27.8	38
67	Anomalous normal fluid response in a chiral superconductor UTe_2 . Nature Communications, 2021, 12, 2644.	12.8	38
68	High-temperature superconductivity stabilized by electron-hole interband coupling in collapsed tetragonal phase of KFe_2 high pressure. Physical Review B, 2015, 91, .	3.2	37
69	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.	7.1	37
70	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, .	3.2	36
71	Frustrated magnetism in the tetragonal CoSe analog of superconducting FeSe . Physical Review B, 2018, 97, .	3.2	35
72	Josephson effect between electron-doped and hole-doped iron pnictide single crystals. Applied Physics Letters, 2009, 95, 062510.	3.3	34

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73	Synthesis, Structure, Chemical Bonding, and Magnetism of the Series RELiGe_2 ($\text{RE} = \text{La, Nd, Sm, Eu}$). <i>Inorganic Chemistry</i> , 2012, 51, 620-628.	4.0	33
74	Unconventional Charge Density Wave Order in the Pnictide Superconductor BaMo		

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91	Quantum-critical scale invariance in a transition metal alloy. Communications Physics, 2020, 3, .	5.3	22
92	Multiple Charge Density Waves and Superconductivity Nucleation at Antiphase Domain Walls in the Nematic Pnictide $\text{Ba}_{1-x}\text{Bi}_x\text{Fe}_2\text{As}_2$. Physical Review Letters, 2021, 127, 027602.	7.8	22
93	Evidence of a universal and isotropic I^2 scaling in 122-type iron pnictide superconductors over a wide doping range. Physical Review B, 2010, 82, .	3.2	20
94	Ambient-pressure bulk superconductivity deep in the magnetic state of CeRhIn_5 . Superconductivity and magnetism in platinum-substituted $\text{SrFe}_{2-x}\text{Pt}_x\text{As}_2$ crystals. Physical Review B, 2010, 82, .	3.2	20
95	Field-dependent heat transport in the Kondo insulator SmB_6 : Phonons scattered by magnetic impurities. Physical Review B, 2018, 97, .	3.2	20
96	Interplay between magnetism and superconductivity in UTe_2 . Physical Review B, 2022, 105, .	3.2	20
97	Observation of the Superconducting Proximity Effect in the Surface State of Sb_2Te_3 Thin Films. Physical Review X, 2016, 6, .	8.9	19
98	Topologically driven linear magnetoresistance in helimagnetic FeP. Npj Quantum Materials, 2021, 6, .	5.2	18
99	Field-induced quantum critical point in CeCoIn_5 . Physica C: Superconductivity and Its Applications, 2004, 408-410, 705-706.	1.2	15
100	Quenched Fe moment in the collapsed tetragonal phase of $\text{Ca}_{1-x}\text{Pr}_x\text{Fe}_2\text{As}_2$. Chinese Physics B, 2013, 22, 057401.	1.4	15
101	Segregation of antiferromagnetism and high-temperature superconductivity in $\text{Ca}_{1-x}\text{La}_x\text{Fe}_2\text{As}_2$. Physical Review B, 2014, 89, .	3.2	15
102	Comprehensive surface magnetotransport study of SmB_6 . Physical Review B, 2020, 101, .	3.2	15
103	Expansion of the high field-boosted superconductivity in UTe_2 under pressure. Npj Quantum Materials, 2021, 6, .	5.2	15
104	Annealing effects on superconductivity in SrFe_2As_2 . Physica C: Superconductivity and Its Applications, 2010, 470, S379-S381.	1.2	14
105	Tuning magnetism in FeAs-based materials via a tetrahedral structure. Physical Review B, 2012, 86, .	3.2	14
106	Electrical detection of the surface spin polarization of the candidate topological Kondo insulator SmB_6 . Physical Review B, 2019, 99, .	3.2	13
107	Intrinsic insulating ground state in transition metal dichalcogenide TiSe_2 . Physical Review Materials, 2019, 3, .	2.4	13
108			

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109	Resistivity at low temperatures in electron-doped cuprate superconductors. <i>Physical Review B</i> , 2010, 82, .	3.2	11
110	Interplay between magnetism, structure, and strong electron-phonon coupling in binary FeAs under pressure. <i>Physical Review B</i> , 2011, 83, .	3.2	11
111	The RE _{1-x} Sn ₂ (RE=La, Nd, Sm, and Gd; 0 ≤ x ≤ 1) series revisited. Synthesis, crystal chemistry, and magnetic susceptibilities. <i>Journal of Solid State Chemistry</i> , 2014, 211, 95-105.	2.9	11
112	Ambipolar surface state transport in nonmetallic stoichiometric Bi ₂ Te ₃ crystals. <i>Physical Review B</i> , 2017, 95, .	2.2	11
113	Quantum spin fluctuations in the bulk insulating state of pure and Fe-doped SmB ₆ . <i>Physical Review B</i> , 2017, 95, .	2.2	11
114	Freezing out of a low-energy bulk spin exciton in SmB ₆ . <i>Npj Quantum Materials</i> , 2018, 3, .	5.2	11
115	Evolution of structure and superconductivity in Ba _{1-x} Bi _x Te ₃ . <i>Physical Review B</i> , 2018, 97, .	3.1	11
116	Intrinsic Low-Temperature Magnetism in SmB ₆ . <i>Physical Review Letters</i> , 2019, 123, 197203.	7.8	11
117	Law and Disorder: Special Stacking Units Building the Intergrowth Ce ₆ Co ₅ Ge ₁₆ . <i>Inorganic Chemistry</i> , 2019, 58, 6037-6043.	4.0	11
118	Symmetry of magnetic correlations in spin-triplet superconductor UTe ₂ . <i>Npj Quantum Materials</i> , 2022, 7, .	5.2	11
119	Creating nanostructured superconductors on demand by local current annealing. <i>Physical Review B</i> , 2015, 92, .	3.2	10
120	Elastic tensor of YNi ₂ B ₂ C. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 397, 1-6.	1.2	9
121	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 . <i>Journal of Physics: Conference Series</i> , 2011, 273, 012104.	0.4	9
122	New rare-earth metal germanides with bismuth substitution. Synthesis, structural variations, and magnetism of the RE[BixGe _{1-x}] ₂ (RE=Y, Pr, Nd, Sm, Gd, Tm, Lu) compounds. <i>Journal of Solid State Chemistry</i> , 2012, 196, 586-595.	2.9	9
123	Observation of topological phases in CaRbF ₄ . <i>Physical Review B</i> , 2019, 100, .	3.2	9
124	Quantum oscillations from networked topological interfaces in a Weyl semimetal. <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	9
125	Bulk transport paths through defects in floating zone and Al flux grown SmB ₆ . <i>Physical Review Materials</i> , 2021, 5, .	2.2	9
126	Persistent Fe moments in the normal-state collapsed-tetragonal phase of the pressure-induced superconductor Ca _{0.67} Sr _{0.33} Fe ₂ As ₂ . <i>Physical Review B</i> , 2014, 90, .	3.2	8

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127	Quantum electron-electron interactions in the charge dynamics of rare-earth doped CaF_2 . Physical Review B, 2016, 94, .	3.2	8
128	Refine Intervention: Characterizing Disordered $\text{Yb}_{0.5}\text{Co}_3\text{Ge}_3$. Crystal Growth and Design, 2020, 20, 6715-6721.	3.0	8
129	Quantum Critical Quasiparticle Scattering within the Superconducting State of CeCoIn_5 . Physical Review Letters, 2016, 117, 016601.	7.8	7
130	Pressure-driven valence increase and metallization in the Kondo insulator $\text{Ce}_3\text{Bi}_4\text{Pt}_3$. Physical Review B, 2019, 100, .	3.2	7
131	Crystalline symmetry-protected non-trivial topology in prototype compound BaAl_4 . Npj Quantum Materials, 2021, 6, .	5.2	7
132	Pressure-dependent intermediate valence behavior in YbNiGa_4 and YbNiIn_4 . Physical Review B, 2018, 98, .	3.2	6
133	Coupled spin waves and crystalline electric field levels in candidate multiferroic ErFeO_3 . Journal of Applied Physics, 2021, 130, .	2.5	6
134	Charge density wave activated excitons in $\text{TiSe}_2/\text{MoSe}_2$ heterostructures. APL Materials, 2022, 10, .	5.1	6
135	Multi-band superconductivity in NbSe_2 from heat transport. Physica C: Superconductivity and Its Applications, 2004, 408-410, 727-728.	1.2	5
136	Rare-earth metal gallium silicides via the gallium self-flux method. Synthesis, crystal structures, and magnetic properties of $\text{RE}(\text{Ga}_{1-x}\text{Si}_x)_2$ ($\text{RE}=\text{Y}, \text{La}, \text{Nd}, \text{Sm}, \text{Gd}, \text{Yb}, \text{Lu}$). Journal of Solid State Chemistry, 2013, 201, 191-203.	2.9	5
137	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.	0.4	4
138	Sr adatoms on As bridge positions on SrFe_2As_2 observed by scanning tunneling microscopy at 4.2 K. Journal of Physics Condensed Matter, 2011, 23, 265702.	1.8	4
139	Electrical detection of the inverse Edelstein effect on the surface of SmB_6 . Physical Review B, 2020, 102, .	3.2	4
140	Comparison of Two Different Synthesis Methods of Single Crystals of Superconducting Uranium Ditelluride. Journal of Visualized Experiments, 2021, , .	0.3	4
141	Magnetic ordering in $\text{PrFe}_4\text{As}_{12}$. Physica B: Condensed Matter, 2008, 403, 869-870.	2.7	3
142	Isotropic multi-gap superconductivity in $\text{BaFe}_{1.9}\text{Pt}_{0.1}\text{As}_2$ from thermal transport and spectroscopic measurements. Superconductor Science and Technology, 2015, 28, 014004.	3.5	3
143	Quantum oscillations in the anomalous spin density wave state of FeAs . Physical Review B, 2017, 96, .	3.2	3
144	CoAs : The line of demarcation. Physical Review B, 2018, 97, .	3.2	3

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145	Unconventional Josephson junctions with topological Kondo insulator weak links. Physical Review B, 2019, 100, .	3.2	3
146	Campbell penetration depth in low carrier density superconductor YPtBi. Physical Review B, 2021, 104, .	3.2	3
147	Long-range magnetic order in hydroxide-layer-doped (Li $_{1-x}$ Fe $_x$ Mn $_y$ OD)FeSe. Physical Review Materials, 2020, 4, .	2.4	3
148	Doping dependence of superconducting gap in YBa $_2$ Cu $_3$ O $_y$ from universal heat transport. Physica C: Superconductivity and Its Applications, 2004, 408-410, 672-673.	1.2	2
149	Nitrogen contamination in elastic neutron scattering. Measurement Science and Technology, 2011, 22, 047001.	2.6	2
150	Electrical and thermal transport properties of the electron-doped cuprate Sm $_2$ Ce $_x$ CuO $_4$ system. Journal of Physics Condensed Matter, 2016, 28, 485702.	1.8	2
151	Strong electron-boson coupling in the iron-based superconductor BaFe $_{1.9}$ Pt $_{0.1}$ As $_2$ revealed by infrared spectroscopy. Physical Review B, 2018, 98, .	3.2	2
152	Pressure-induced suppression of ferromagnetism in the itinerant ferromagnet LaCrSb $_3$. Physical Review B, 2020, 101, .	3.2	2
153	Physical properties and electronic structure of single-crystal $\text{KCo}_2\text{P}_2\text{O}_{14}$. Physical Review Materials, 2022, 6, .		
154	Field-induced thermal metal-to-insulator transition in underdoped LSCO. Physica C: Superconductivity and Its Applications, 2004, 408-410, 725-726.	1.2	1
155	Rare earth substitution in lattice-tuned Sr $_{0.3}$ Ca $_{0.7}$ Fe $_2$ As $_2$ solid solutions. Superconductor Science and Technology, 2012, 25, 084014.	3.5	1
156	Publisher's Note: High-temperature superconductivity stabilized by electron-hole interband coupling in collapsed tetragonal phase of KFe $_2$ As $_2$ under high pressure [Phys. Rev. B91, 060508(R) (2015)]. Physical Review B, 2015, 91, .	3.2	1
157	Observation of a Flat and Extended Surface State in a Topological Semimetal. Materials, 2022, 15, 2744.	2.9	1
158	Superconductivity in the iron-pnictide parent compound SrFe $_2$ As $_2$. , 2009, .		0
159	Air-stable doping of Bi $_2$ Se $_3$ by MoO $_3$ into the topological regime. , 2014, .		0
160	Influence of Shape Anisotropy and Temperature on Magnetostrictive Behavior in Single-Crystal Galfenol Alloys. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	0
161	Influence of shape anisotropy and temperature on magnetostrictive behaviors in single crystal Galfenol alloys. , 2017, .		0
162	Influence of growth flux solvent on anneal-tuning of ground states in CaFe $_2$ As $_2$. Physical Review Materials, 2018, 2, .	2.4	0