Bernd BÃ¼chner

List of Publications by Year
in descending order

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1,130 papers	35,834 citations	4120 87 h-index	11288 136 g-index
1141 all docs	1141 docs citations	1141 times ranked	27675 citing authors

#	Article	IF	Citations
1	Experimental Realization of a Three-Dimensional Dirac Semimetal. Physical Review Letters, 2014, 113, 027603.	2.9	978
2	Prediction and observation of an antiferromagnetic topological insulator. Nature, 2019, 576, 416-422.	13.7	701
3	The electronic phase diagram of the LaO1âˆ’xFxFeAs superconductor. Nature Materials, 2009, 8, 305-309.	13.3	390
4	Atomic Resolution Imaging and Topography of Boron Nitride Sheets Produced by Chemical Exfoliation. ACS Nano, 2010, 4, 1299-1304.	7.3	337
5	Orbital-driven nematicity in FeSe. Nature Materials, 2015, 14, 210-214.	13.3	321
6	Direct Low-Temperature Nanographene CVD Synthesis over a Dielectric Insulator. ACS Nano, 2010, 4, 4206-4210.	7.3	311
7	Tunable Band Gap in Hydrogenated Quasi-Free-Standing Graphene. Nano Letters, 2010, 10, 3360-3366.	4.5	297
8	A high-mobility two-dimensional electron gas at the spinel/perovskite interface of Î³-Al2O3/SrTiO3. Nature Communications, 2013, 4, 1371.	5.8	285
9	Superconductivity without Nesting in LiFeAs. Physical Review Letters, 2010, 105, 067002.	2.9	280
10	A Phthalocyanineâ€Based Layered Twoâ€Dimensional Conjugated Metalâ€“Organic Framework as a Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2019, 58, 10677-10682.	7.2	278
11	Evidence for a Field-Induced Quantum Spin Liquid in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math> - <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>RuCl</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn>	2.9	277
12	display="inline"><mml:mmultiscripts><mml:mi>As</mml:mi><mml:mprescripts /><mml:none /><mml:mn>75</mml:mn></mml:mmultiscripts></mml:math>NMR Studies of Superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>LaFeAs</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>0.9</mml:mn></mml:msub><mml:msub><mml:mi mathvaria	2.9	268
13	Commensurate Spin Density Wave in LaFeAsO: A Local Probe Study. Physical Review Letters, 2008, 101, 077005.	2.9	267
14	Direct Imaging of Rotational Stacking Faults in Few Layer Graphene. Nano Letters, 2009, 9, 102-106.	4.5	225
15	Critical Buckling for the Disappearance of Superconductivity in Rare-Earth-DopedLa2âˆ’xSrxCuO4. Physical Review Letters, 1994, 73, 1841-1844.	2.9	224
16	Strength of the spin-fluctuation-mediated pairing interaction in a high-temperature superconductor. Nature Physics, 2009, 5, 217-221.	6.5	222
17	Orbital textures and charge density waves in transition metal dichalcogenides. Nature Physics, 2015, 11, 328-331.	6.5	217
18	Linear Plasmon Dispersion in Single-Wall Carbon Nanotubes and the Collective Excitation Spectrum of Graphene. Physical Review Letters, 2008, 100, 196803.	2.9	211

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19	Carbon nanotubes filled with a chemotherapeutic agent: a nanocarrier mediates inhibition of tumor cell growth. Nanomedicine, 2008, 3, 175-182.	1.7	210
20	Structural transformations in graphene studied with high spatial and temporal resolution. Nature Nanotechnology, 2009, 4, 500-504.	15.6	203
21	Chemical Aspects of the Candidate Antiferromagnetic Topological Insulator MnBi₂Te₄. Chemistry of Materials, 2019, 31, 2795-2806.	3.2	203
22	Graphene Synthesis on Cubic SiC/Si Wafers. Perspectives for Mass Production of Graphene-Based Electronic Devices. Nano Letters, 2010, 10, 992-995.	4.5	199
23	Momentum dependence of the superconducting gap in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ba</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn> Physical Review B, 2009, 79, .	1.1	196
24	Magnon heat transport in(Sr,Ca,La)14Cu24O41. Physical Review B, 2001, 64, .	1.1	195
25	Single molecule magnet with an unpaired electron trapped between two lanthanide ions inside a fullerene. Nature Communications, 2017, 8, 16098.	5.8	189
26	Carbon nanostructures as multi-functional drug delivery platforms. Journal of Materials Chemistry B, 2013, 1, 401-428.	2.9	186
27	The synthesis of carbon coated Fe, Co and Ni nanoparticles and an examination of their magnetic properties. Carbon, 2009, 47, 2821-2828.	5.4	184
28	(Ï€,â€‰Ï€) electronic order in iron arsenide superconductors. Nature, 2009, 457, 569-572.	13.7	179
29	Physics of grain boundaries in the colossal magnetoresistance manganites. Journal of Magnetism and Magnetic Materials, 2000, 211, 150-159.	1.0	178
30	Two Energy Gaps and Fermi-Surface â€œArcsâ€•in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>NbSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2009, 102, 166402.	2.9	177
31	Stacked topological insulator built from bismuth-based graphene sheet analogues. Nature Materials, 2013, 12, 422-425.	13.3	177
32	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">TaIrTe</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>: A ternary type-II Weyl semimetal. Physical Review B, 2016, 93, .	1.1	175
33	Direct observation of spinâ€“orbit coupling in iron-based superconductors. Nature Physics, 2016, 12, 311-317.	6.5	170
34	Field and Temperature Dependence of the Superfluid Density in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaFeAsO</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" mathvariant="normal">F</mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>x</mml:mi></mml:math>Superconductors: A Muon Spin Relaxation Study. Physical Review Letters, 2008, 101, 097009.	2.9	165
35	Evidence for Triplet Superconductivity in a Superconductor-Ferromagnet Spin Valve. Physical Review Letters, 2012, 109, 057005.	2.9	163
36	Pseudogap and Charge Density Waves in Two Dimensions. Physical Review Letters, 2008, 100, 196402.	2.9	162

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37	Frustrated Cuprate Route from Antiferromagnetic to Ferromagnetic Spin-12Heisenberg Chains:Li2ZrCuO4as a Missing Link near the Quantum Critical Point. Physical Review Letters, 2007, 98, 077202.	2.9	158
38	Unusual band renormalization in the simplest iron-based superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>FeSe</mml:mtext><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:math>. Physical Review B, 2014, 89, .	1.1	158
39	Field-induced quantum criticality in the Kitaev system <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>â^’</mml:mo></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	1.1	151
40	Unusual Phonon Heat Transport in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub><mml:mrow><mml:mi>RuCl</mml:mi></mml:mrow></mml:msub></mml:math> : Strong Spin-Phonon Scattering and Field-Induced Spin Gap. Physical Review Letters, 2018, 120, 117204.	2.9	146
41	Synthesis, Properties, and Applications of Ferromagnetic-Filled Carbon Nanotubes. Chemical Vapor Deposition, 2006, 12, 380-387.	1.4	133
42	Size and Shape Control of Colloidal Copper(I) Sulfide Nanorods. ACS Nano, 2012, 6, 5889-5896.	7.3	129
43	Graphene: Piecing it Together. Advanced Materials, 2011, 23, 4471-4490.	11.1	127
44	Inhomogeneous Low Frequency Spin Dynamics inLa1.65Eu0.2Sr0.15CuO4. Physical Review Letters, 2000, 85, 642-645.	2.9	126
45	Interplay between Charge Order, Magnetism, and Structure inLa0.875Sr0.125MnO3. Physical Review Letters, 1999, 82, 185-188.	2.9	125
46	Momentum-resolved superconducting gap in the bulk of Ba_{1â^’x}K_xFe₂As₂from combined ARPES and Î¼SR measurements. New Journal of Physics, 2009, 11, 055069.	1.2	124
47	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>R</mml:mi><mml:mtext>FeAsO</mml:mtext></mml:mrow></mml:math>	1.1	123
48	Half-Metallic Ferromagnetism with Unexpectedly Small Spin Splitting in the Heusler Compound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>FeSi</mml:mi></mml:math>. Physical Review Letters, 2013, 110, 066601.	2.9	123
49	On the Graphitization Nature of Oxides for the Formation of Carbon Nanostructures. Chemistry of Materials, 2007, 19, 4105-4107.	3.2	121
50	Novel Catalysts, Room Temperature, and the Importance of Oxygen for the Synthesis of Single-Walled Carbon Nanotubes. Nano Letters, 2005, 5, 1209-1215.	4.5	120
51	Low temperature tunneling magnetoresistance on (La,Sr)MnO3â^•Co junctions with organic spacer layers. Journal of Applied Physics, 2008, 103, .	1.1	120
52	Ballistic heat transport of quantum spin excitations as seen in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrCuO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2010, 81, .	1.1	120
53	Tailoring N-Doped Single and Double Wall Carbon Nanotubes from a Nondiluted Carbon/Nitrogen Feedstock. Journal of Physical Chemistry C, 2007, 111, 2879-2884.	1.5	119
54	Confinement of fractional quantum number particles in a condensed-matter system. Nature Physics, 2010, 6, 50-55.	6.5	119

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55	On the nature of grain boundaries in the colossal magnetoresistance manganites. Europhysics Letters, 1999, 47, 371-377.	0.7	116
56	Magnetic force microscopy sensors using iron-filled carbon nanotubes. Journal of Applied Physics, 2006, 99, 104905.	1.1	116
57	From Antiferromagnetic Order to Static Magnetic Stripes: The Phase Diagram of(La,Eu)2â^'xSrxCuO4. Physical Review Letters, 2000, 85, 4590-4593.	2.9	115
58	Carbon Nanotubes Filled with Ferromagnetic Materials. Materials, 2010, 3, 4387-4427.	1.3	114
59	Observation of a universal donor-dependent vibrational mode in graphene. Nature Communications, 2014, 5, 3257.	5.8	114
60	Air-stable redox-active nanomagnets with lanthanide spins radical-bridged by a metalâ€“metal bond. Nature Communications, 2019, 10, 571.	5.8	112
61	Dispersion and diameter separation of multi-wall carbon nanotubes in aqueous solutions. Journal of Colloid and Interface Science, 2010, 345, 138-142.	5.0	111
62	The intrinsic electronic phase diagram of iron-oxypnictide superconductors. Europhysics Letters, 2009, 87, 17005.	0.7	108
63	One- and Two-Triplon Spectra of a Cuprate Ladder. Physical Review Letters, 2007, 98, 027403.	2.9	106
64	One-Sign Order Parameter in Iron Based Superconductor. Symmetry, 2012, 4, 251-264.	1.1	106
65	Two-Gap Superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="bold">K</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>As</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> A Complementary Study of the Magnetic Penetration Depth by Muon-Spin Rotation and Angle-Re. Physical Review Letters, 2009, 102, 187005.	2.2	105
66	Charge ordering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mtext>Ca</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mtext>MnO</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review B, 2009, 79, .	1.1	105
67	Local antiferromagnetic correlations in the iron pnictide superconductors<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LaFeAsO</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mtext>Ca</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review B, 2010, 81, .	1.1	105
68	Improved catalytic performance of hierarchical ZSM-5 synthesized by desilication with surfactants. Microporous and Mesoporous Materials, 2013, 165, 148-157.	2.2	105
69	Phase diagram of charge order in La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>.</mml:mo><mml:mn>8</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mtext>Ca</mml:mtext></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mtext>MnO</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>	1.1	101
70	Experimental realization of type-II Weyl state in noncentrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TaIrTe</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> Physical Review B, 2017, 95, .	1.1	101
71	Growth and characterization of filled carbon nanotubes with ferromagnetic properties. Carbon, 2006, 44, 2316-2322.	5.4	100
72	Carbon nanotube based biomedical agents for heating, temperature sensoring and drug delivery. International Journal of Hyperthermia, 2008, 24, 496-505.	1.1	99

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73	Thermal Decomposition of Ferrocene as a Method for Production of Single-Walled Carbon Nanotubes without Additional Carbon Sources. Journal of Physical Chemistry B, 2006, 110, 20973-20977.	1.2	96
74	Graphene at High Bias: Cracking, Layer by Layer Sublimation, and Fusing. Nano Letters, 2012, 12, 1873-1878.	4.5	95
75	Record-high thermal barrier of the relaxation of magnetization in the nitride clusterfullerene Dy₂ScN@C₈₀-I_h. Chemical Communications, 2017, 53, 7901-7904.	2.2	95
76	Magnetic ordering and negative thermal expansion in PrFeAsO. Physical Review B, 2008, 78, .	1.1	94
77	Observation of Two-Magnon Bound States in the Two-Leg Ladders of(Ca,La)14Cu24O41. Physical Review Letters, 2001, 87, 127002.	2.9	93
78	Ferromagnetic filled carbon nanotubes and nanoparticles: synthesis and lipid-mediated delivery into human tumor cells. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 276-278.	1.0	92
79	Enhanced magnetism in Fe-filled carbon nanotubes produced by pyrolysis of ferrocene. Journal of Applied Physics, 2005, 98, 074315.	1.1	92
80	Independent Ordering of Two Interpenetrating Magnetic Sublattices in the Double Perovskite Sr₂CoOsO₆. Journal of the American Chemical Society, 2013, 135, 18824-18830.	6.6	92
81	Momentum and Energy Dependence of the Anomalous High-Energy Dispersion in the Electronic Structure of High Temperature Superconductors. Physical Review Letters, 2007, 99, 237002.	2.9	91
82	Oxide-Driven Carbon Nanotube Growth in Supported Catalyst CVD. Journal of the American Chemical Society, 2007, 129, 15772-15773.	6.6	91
83	Fermi surface nesting in several transition metal dichalcogenides. New Journal of Physics, 2008, 10, 125027.	1.2	91
84	Mg₃(Bi,Sb)₂ single crystals towards high thermoelectric performance. Energy and Environmental Science, 2020, 13, 1717-1724.	15.6	91
85	Evidence for a New Twoâ€Dimensional C₄Hâ€Type Polymer Based on Hydrogenated Graphene. Advanced Materials, 2011, 23, 4497-4503.	11.1	90
86	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>Ba</mml:mtext><mml:mn>2</mml:mn> A cubic double perovskite material with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mtext>Ir</mml:mtext><mml:mrow><mml:mn>5</mml:mn><mml: Physical Review B, 2016, 93, .	1.1	90
87	Magnon Heat Transport in DopedLa2CuO4. Physical Review Letters, 2003, 90, 197002.	2.9	89
88	Constituents of the Quasiparticle Spectrum Along the Nodal Direction of High-TcCuprates. Physical Review Letters, 2006, 97, 017002.	2.9	89
89	Investigating the Graphitization Mechanism of SiO₂ Nanoparticles in Chemical Vapor Deposition. ACS Nano, 2009, 3, 4098-4104.	7.3	89
90	MoO3â˜Î´ nanorods: Synthesis, characterization and magnetic properties. Solid State Sciences, 2007, 9, 1028-1032.	1.5	88

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91	Reexamination of the microscopic couplings of the quasi-one-dimensional antiferromagnetCuGeO3. Physical Review B, 1998, 57, 1102-1107.	1.1	86
92	Topological Electronic Structure and Intrinsic Magnetization in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MnBi</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>: A <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>. Physical Review X, 2019, 9, .	2.8	86
93	Transition Temperature of an Arsenic-Deficient<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaO</mml:mi><mml:mn>0.9</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">F</mml:mi><mml:mn>0.1</mml:mn></mml:msub><mml:msub><mml:mi>FeAs</mml:mi><mml:mrow><mml:mn> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mi>eff</mml:mi></mml:msub></mml:math>Description of the Honeycomb Mott Insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mrow><mml:mi>RuCl</mml:mi> Physical Review Letters, 2016, 117, 126403.	2.9	85
94		2.9	83
95	Investigating the Diameter-Dependent Stability of Single-Walled Carbon Nanotubes. ACS Nano, 2009, 3, 1557-1563.	7.3	82
96	Electronic structure and electron-phonon coupling of doped graphene layers in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>KC</mml:mtext></mml:mrow><mml:mn>8</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2009, 79, .	1.1	81
97	Crystal and magnetic structure of the oxypnictide superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LaFeAsO</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn> A neutron-diffraction study. Physical Review B, 2010, 82, .	1.1	81
98	Synthesis of carbon nanotubes with and without catalyst particles. Nanoscale Research Letters, 2011, 6, 303.	3.1	81
99	Specific heat and upper critical fields in KFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>As<mml:math	1.1	80
100	Valence states and metamagnetic phase transition in partially<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>B</mml:mi></mml:math>-site-disordered perovskite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Eu</mml:mi><mml:msub><mml:mi mathvariant="normal">Mn</mml:mi><mml:mn>0.5</mml:mn></mml:msub><mml:msub><mml:mi mathvar	1.1	79
101	Fine tuning the charge transfer in carbon nanotubes via the interconversion of encapsulated molecules. Physical Review B, 2008, 77, .	1.1	79
102	Effect of nematic ordering on electronic structure of FeSe. Scientific Reports, 2016, 6, 36834.	1.6	78
103	Atomic Structure of Interconnected Few-Layer Graphene Domains. ACS Nano, 2011, 5, 6610-6618.	7.3	77
104	Kinks, Nodal Bilayer Splitting, and Interband Scattering inYBa2Cu3O6+x. Physical Review Letters, 2006, 96, 117004.	2.9	76
105	Spin-State Polarons in Lightly-Hole-Doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaCoO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2008, 101, 247603.	2.9	76
106	Nanoscale Electronic Order in Iron Pnictides. Physical Review Letters, 2010, 104, 097001.	2.9	76
107	Anisotropic Particle-Hole Excitations in Black Phosphorus. Physical Review Letters, 2015, 115, 026404.	2.9	75
108	Pressure-induced dimerization and valence bond crystal formation in the Kitaev-Heisenberg magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub> Physical Review B, 2018, 97, .	1.1	75

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109	Full spin switch effect for the superconducting current in a superconductor/ferromagnet thin film heterostructure. Applied Physics Letters, 2010, 97, .	1.5	74
110	Synthesis, characterization, and electrical properties of nitrogen-doped single-walled carbon nanotubes with different nitrogen content. Diamond and Related Materials, 2010, 19, 1199-1206.	1.8	74
111	Thin film growth of Fe-based superconductors: from fundamental properties to functional devices. A comparative review. Reports on Progress in Physics, 2014, 77, 046502.	8.1	74
112	Methane as a Selectivity Booster in the Arcâ€Discharge Synthesis of Endohedral Fullerenes: Selective Synthesis of the Singleâ€Molecule Magnet Dy₂TiC@C₈₀ and Its Congener Dy₂TiC₂@C₈₀. Angewandte Chemie - International Edition, 2015, 54, 13411-13415.	7.2	74
113	Giant anomalies of the thermal expansion at the spin-Peierls transition inCuGeO3. Physical Review B, 1995, 51, 12884-12887.	1.1	73
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