Jian-Xin Zhu

List of Publications by Year
in descending order

252	7,539	53794 45	74163 75
papers	citations	h-index	g-index

261	261	261	7698
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photocurrent-driven transient symmetry breaking in the Weyl semimetal TaAs. Nature Materials, 2022, 21, 62-66.	27.5	20
2	Gapless Higgs mode in the Fulde-Ferrell-Larkin-Ovchinnikov state of a superconductor. Physical Review B, 2022, 105, .	3.2	1
3	Correlation-driven electronic reconstruction in FeTe1â^'xSex. Communications Physics, 2022, 5, .	5.3	17
4	Pressure-induced concomitant topological and metal-insulator quantum phase transitions in Ce3Pd3Bi4. Npj Quantum Materials, 2022, 7, .	5.2	2
5	Multipole polaron roams the devilâ€™s staircase. Nature Materials, 2022, 21, 384-385.	27.5	0
6	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">DFT</mml:mi><mml:mo>+</mml:mo><mml:mi mathvariant="normal">DMFT</mml:mi></mml:math> study of dopant effects in the heavy-fermion compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">CeCoIn</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math>. Physical Review B, 2022, 105, .	3.2	2
7	Direct Observation of Coherent Longitudinal and Shear Acoustic Phonons in TaAs Using Ultrafast X-Ray Diffraction. Physical Review Letters, 2022, 128, 155301.	7.8	7
8	Spin-polarized imaging of strongly interacting fermions in the ferrimagnetic state of the Weyl candidate CeBi. Physical Review B, 2022, 105, .	3.2	5
9	Colossal piezoresistance in narrow-gap <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Eu</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2022, 106, .	3.2	2
10	Ultrafast Magnetic Field-Dependent Dynamics in the High-Temperature Superconductor La2â^'xSrxCuO4. , 2021, , .		0
11	Digital quantum simulation of non-equilibrium quantum many-body systems. Quantum Information Processing, 2021, 20, 1.	2.2	20
12	Orbital Selectivity in Electron Correlations and Superconducting Pairing of Iron-Based Superconductors. Frontiers in Physics, 2021, 9, .	2.1	16
13	Nanoscale heterogeneity induced by nonmagnetic Zn dopants in the quantum critical metal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CeCoIn</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math>: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>In</mml:mi><mml:mprescripts /><mml:none /><mml:mn>115</mml:mn></mml:mmultiscripts></mml:math> NQR/NMR and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Co</mml:mi><mml:mi>Ph	3.2	3
14	Low barrier height in a ZnO nanorods/NbSe2 heterostructure prepared by van der Waals epitaxy. APL Materials, 2021, 9, .	5.1	2
15	Incommensurate Spin Fluctuations in the Spin-Triplet Superconductor Candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>UTe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Physical Review Letters, 2020, 125, 237003.	7.8	60
16	Laser pulse driven control of charge and spin order in the two-dimensional Kondo lattice. Physical Review B, 2020, 102, .	3.2	8
17	Stable Higgs mode in anisotropic quantum magnets. Physical Review B, 2020, 102, .	3.2	6
18	Thickness dependence of electronic structure and optical properties of a correlated van der Waals antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NiPS</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> thin film. Physical Review B, 2020, 102, .	3.2	26

#	Article	IF	Citations
19	Quenching of the relaxation pathway in the Weyl semimetal TaAs. Physical Review B, 2020, 102, .	3.2	4
20	Hybridization effect on the x-ray absorption spectra for actinide materials: Application to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Pu</mml:mi><mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	3.2	3
21	Exploring itinerant states in divalent hexaborides using rare-earth L edge resonant inelastic x-ray scattering. Journal of Physics Condensed Matter, 2020, 32, 135601.	1.8	2
22	Electronic correlation induced expansion of Fermi pockets inΓ´-plutonium. Physical Review B, 2020, 101, .	3.2	9
23	Landscape of coexisting excitonic states in the insulating single-layer cuprates and nickelates. Physical Review B, 2020, 101, .	3.2	7
24	From Trivial Kondo Insulator Ce3Pt3Bi4 to Topological Nodal-Line Semimetal Ce3Pd3Bi4. Physical Review Letters, 2020, 124, 166403.	7.8	19
25	Machine learning study of magnetism in uranium-based compounds. Physical Review Materials, 2020, 4, .	2.4	10
26	Observation of interacting polaronic gas behavior in Ta-doped TiO2 thin films via terahertz time-domain spectroscopy. Applied Physics Letters, 2020, 117, 261902.	3.3	1
27	Prediction of spin polarized Fermi arcs in quasiparticle interference in CeBi. Physical Review B, 2020, 102, .	3.2	7
28	Putative hybridization gap in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaMn</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> under applied pressure. Physical Review B, 2019, 100, .	3.2	3
29	Monitoring Electronâ€“Phonon Interactions in Lead Halide Perovskites Using Time-Resolved THz Spectroscopy. ACS Nano, 2019, 13, 8826-8835.	14.6	52
30	Optical absorption spectroscopy in hybrid systems of plasmons and excitons. Nanoscale, 2019, 11, 2037-2047.	5.6	3
31	Electronic and Magnetic Properties of Lanthanum and Strontium Doped Bismuth Ferrite: A First-Principles Study. Scientific Reports, 2019, 9, 194.	3.3	42
32	Ultrafast X-Ray Absorption Spectroscopy of Strongly Correlated Systems: Core Hole Effect. Physical Review Letters, 2019, 122, 207401.	7.8	0
33	Tracking Ultrafast Photocurrents in the Weyl Semimetal TaAs Using THz Emission Spectroscopy. Physical Review Letters, 2019, 122, 197401.	7.8	76
34	Spin-fermion model for skyrmions in MnGe derived from strong correlations. Physical Review B, 2019, 99, .	3.2	10
35	Kondo Signatures of a Quantum Magnetic Impurity in Topological Superconductors. Physical Review Letters, 2019, 122, 087001.	7.8	20
36	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Pu</mml:mi><mml:mprescripts /><mml:none /><mml:mn>239</mml:mn></mml:mmultiscripts></mml:math> nuclear magnetic resonance in the candidate topological insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PuB</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> Physical Review B, 2019, 99, .	3.2	8

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37	Dirac state in a centrosymmetric superconductor <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, .	3.2	11
38	Band Dependent Interlayer f -Electron Hybridization in CeRhIn5. Physical Review Letters, 2018, 120, 066403.	7.8	49
39	Spatial dependence of the super-exchange interactions for transition-metal trimers in graphene. Journal of Applied Physics, 2018, 123, .	2.5	7
40	Solution-Processed n-Type Graphene Doping for Cathode in Inverted Polymer Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 4874-4881.	8.0	24
41	Invariance of Topological Indices Under Hilbert Space Truncation. Physical Review Letters, 2018, 120, 016403.	7.8	3
42	Design principles from multiscale simulations to predict nanostructure in self-assembling ionic liquids. Faraday Discussions, 2018, 206, 159-181.	3.2	9
43	A high-throughput data analysis and materials discovery tool for strongly correlated materials. Npj Computational Materials, 2018, 4, .	8.7	17
44	Orbital-selective superconductivity in the nematic phase of FeSe. Physical Review B, 2018, 98, .	3.2	31
45	Orbital Selectivity Enhanced by Nematic Order in FeSe. Physical Review Letters, 2018, 121, 227003.	7.8	35
46	Experimental and theoretical study of topology and electronic correlations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PuB</mml:mi><mml:mn>4</mml:mn></mml:msub></mm Physical Review B, 2018, 97, .	3.2	11
47	Local quantum criticality of a one-dimensional Kondo insulator model. Physical Review B, 2018, 97, .	3.2	4
48	Temperature-tunable Fano resonance induced by strong coupling between Weyl fermions and phonons in TaAs. Nature Communications, 2017, 8, 14933.	12.8	57
49	Magnetic, electronic, and optical properties of double perovskite Bi2FeMnO6. APL Materials, 2017, 5, .	5.1	38
50	Topological-insulator-based terahertz modulator. Scientific Reports, 2017, 7, 13486.	3.3	20
51	Probing the superconducting gap symmetry of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>â^'</mml:mo><mml:msub><mml:mn mathvariant="bold">PdBi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> : A penetration depth study. Physical Review B, 2017, 95, .	3.2	23
52	Iron Carbides in Fischerâ€“Tropsch Synthesis: Theoretical and Experimental Understanding in Epsilon-Iron Carbide Phase Assignment. Journal of Physical Chemistry C, 2017, 121, 21390-21396.	3.1	45
53	Low-frequency optical phonon modes and carrier mobility in the halide perovskite CH3NH3PbBr3 using terahertz time-domain spectroscopy. Applied Physics Letters, 2017, 111, .	3.3	54
54	Explicit inclusion of electronic correlation effects in molecular dynamics. Physical Review B, 2017, 96, .	3.2	3

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55	Voltage-dependent spin flip in magnetically substituted graphene nanoribbons: Towards the realization of graphene-based spintronic devices. Physical Review B, 2017, 95, .	3.2	9
56	Impurity-induced magnetic droplet in unconventional superconductors near a magnetic instability: Application to Nd-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CeCoIn</mml:mi><mml:mn>5</mml:mn></mml:msub></ Physical Review B, 2017, 96, .	3.2	5
57	Local moments in the heterogeneous electronic state of Cd-substituted CeCoIn₅: NQR relaxation rates. Journal of Physics: Conference Series, 2017, 807, 032001.	0.4	3
58	Low-energy surface states in the normal state of Î±â˜PdBi2 superconductor. Physical Review Materials, 2017, 1, .	2.4	5
59	Polarization-dependent surface-bulk scattering in the Weyl semimetal NbAs. , 2017, , .		0
60	Vibrational signatures in the THz spectrum of 1,3-DNB: A first-principles and experimental study. Europhysics Letters, 2016, 114, 37010.	2.0	1
61	Oxygen vacancy effects on double perovskite Bi ₂ FeMnO ₆ : A first-principles study. Europhysics Letters, 2016, 116, 57002.	2.0	5
62	Observation of Dirac-like semi-metallic phase in NdSb. Journal of Physics Condensed Matter, 2016, 28, 23LT02.	1.8	35
63	Local Electronic Structure Around a Single Impurity in Superconductors. Lecture Notes in Physics, 2016, , 69-88.	0.7	0
64	Disorder Effects on Electronic and Transport Properties in Superconductors. Lecture Notes in Physics, 2016, , 89-109.	0.7	0
65	Transport Across Normal-Metal/Superconductor Junctions. Lecture Notes in Physics, 2016, , 141-167.	0.7	0
66	Topological and Quantum Size Effects in Superconductors at Reduced Length Scale. Lecture Notes in Physics, 2016, , 169-185.	0.7	0
67	Probing ultrafast spin dynamics through a magnon resonance in the antiferromagnetic multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>HoMnO</mml:mtext><mml:mn>3</mml:mn></mml:m Physical Review B, 2016, 94, .	3.2	16
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70	Electronic correlation and magnetism in the ferromagnetic metal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>3</mml:mn></mml:msub></mml: Physical Review B, 2016, 93, .	3.2	119
71	Unusual superconducting isotope effect in the presence of a quantum criticality. Physical Review B, 2016, 93, .	3.2	14
72	Interfacial effects revealed by ultrafast relaxation dynamics in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi mathvariant="normal">YBa</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:math>bilayers. Physical Re	3.2	7

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73	Strain-Driven Approach to Quantum Criticality in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>A</mml:mi><mml:mrow><mml:msub><mml:mrow><mml:mi>Fe</mml:mi><mml:mrow><mml xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>A<. Physical Review Letters, 2016, 116, 237003.	7.8	44
74	Observation of the spin-polarized surface state in a noncentrosymmetric superconductor BiPd. Nature Communications, 2016, 7, 13315.	12.8	42
75	Electronic structure and relaxation dynamics in a superconducting topological material. Scientific Reports, 2016, 6, 22557.	3.3	21
76	Site-mixing effect on the XMCD spectrum in double perovskite Bi2FeMnO6. Applied Physics Letters, 2016, 108, 242907.	3.3	11
77	Bogoliubov-de Gennes Method and Its Applications. Lecture Notes in Physics, 2016, , .	0.7	67
78	Onâ€Fabrication Solidâ€State Nâ€Doping of Graphene by an Electronâ€Transporting Metal Oxide Layer for Efficient Inverted Organic Solar Cells. Advanced Energy Materials, 2016, 6, 1600172.	19.5	46
79	Phonon Mode Transformation Across the Orthohombicâ€"Tetragonal Phase Transition in a Lead Iodide Perovskite CH₃NH₃PbI₃: A Terahertz Time-Domain Spectroscopy Approach. Journal of Physical Chemistry Letters, 2016, 7, 1-6.	4.6	109
80	Ground-state wave function of plutonium in PuSb as determined via x-ray magnetic circular dichroism. Physical Review B, 2015, 91, .	3.2	7
81	First-principles study of the Kondo physics of a single Pu impurity in a Th host. Physical Review B, 2015, 91, .	3.2	8
82	Many-body instabilities and mass generation in slow Dirac materials. Physical Review B, 2015, 92, .	3.2	8
83	Microscopic investigation of electronic inhomogeneity induced by substitutions in a quantum critical metal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CeCoIn</mml:mi><mml:mn>5</mml:mn></mml:msub></ Physical Review B, 2015, 92, .	3.2	19
84	Ultrafast carrier dynamics in the large-magnetoresistance material<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mn Physical Review B, 2015, 92, .	3.2	58
85	Edge states and local electronic structure around an adsorbed impurity in a topological superconductor. Physical Review B, 2015, 92, .	3.2	5
86	Electron-hole compensation effect between topologically trivial electrons and nontrivial holes in NbAs. Physical Review B, 2015, 92, .	3.2	66
87	Experimental observation of incoherent-coherent crossover and orbital-dependent band renormalization in iron chalcogenide superconductors. Physical Review B, 2015, 92, .	3.2	46
88	Theory of nodal sÂ±-wave pairing symmetry in the Pu-based 115 superconductor family. Scientific Reports, 2015, 5, 8632.	3.3	12
89	Electronic structure of U₂PtC₂and U₂RhC₂. Journal of Physics: Conference Series, 2015, 592, 012037.	0.4	2
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91	â€œNodal Gapâ€•Induced by the Incommensurate Diagonal Spin Density Modulation in Underdoped High-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:msub><mml:mrow><mml:mi>T</mml:mi></mml:mrow><mml:mrow><mml:mi>c</mml:mi></mml:mrow	1.1	2
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93	Observation of universal strong orbital-dependent correlation effects in iron chalcogenides. Nature Communications, 2015, 6, 7777.	12.8	148
94	Fermi surface reconstruction and multiple quantum phase transitions in the antiferromagnet CeRhIn ₅. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 673-678.	7.1	67
95	Emergent topological mirror insulator int2g-orbital systems. Physical Review B, 2015, 91, .	3.2	2
96	Proximity-induced magnetism in transition-metal substituted graphene. Scientific Reports, 2015, 5, 12322.	3.3	30
97	Unified description of superconducting pairing symmetry in electron-doped Fe-based-122 compounds. Physical Review B, 2015, 91, .	3.2	1
98	The valence-fluctuating ground state of plutonium. Science Advances, 2015, 1, e1500188.	10.3	89
99	First-Principles Investigation of Nanopore Sequencing Using Variable Voltage Bias on Graphene-Based Nanoribbons. Journal of Physical Chemistry Letters, 2015, 6, 2616-2621.	4.6	22
100	Building blocks for correlated superconductors and magnets. APL Materials, 2015, 3, .	5.1	3
101	Bonding between graphene and MoS2 monolayers without and with Li intercalation. Applied Physics Letters, 2015, 107, 043903.	3.3	20
102	Optical properties of organometallic perovskite: An ab initio study using relativistic GW correction and Bethe-Salpeter equation. Europhysics Letters, 2014, 108, 67015.	2.0	47
103	Electrical and Thermal Control of Magnetic Exchange Interactions. Physical Review Letters, 2014, 113, 257201.	7.8	27
104	Asymmetric Andreev reflection induced electrical and thermal Hall-like effects in metal/anisotropic superconductor junctions. Physical Review B, 2014, 89, .	3.2	5
105	Ultrafast Photoemission Spectroscopy of the Uranium Dioxide<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>UO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></	7.8	24
	Insulator: Evidence for a Robust Energy Gap Structure. Physical Review Letters, 2014, 112, .		
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108	Spin fluctuations, Fermi surface hotspots and nesting in PuCoGa5. Materials Research Society Symposia Proceedings, 2014, 1683, 7.	0.1	0

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109	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:math> calculations with spin-orbit coupling for the light actinides. Physical Review B, 2014, 89, .	3.2	14
110	Disorder in quantum critical superconductors. Nature Physics, 2014, 10, 120-125.	16.7	57
111	Pressure-induced topological quantum phase transition in Sb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	47
112	Evolution of quasiparticle states with and without a Zn impurity in doped 122 iron pnictides. Physical Review B, 2014, 90, .	3.2	5
113	Interface-induced magnetic coupling in multiferroic/ferromagnetic bilayer: An ultrafast pump-probe study. Applied Physics Letters, 2014, 104, 141602.	3.3	7
114	Induced Magnetization in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub></mml:math> Physical Review Letters, 2014, 113, 047204.	7.8	59
115	Nanoscale Spin Seebeck Rectifier: Controlling Thermal Spin Transport across Insulating Magnetic Junctions with Localized Spin. Physical Review B, 2014, 89, .	3.2	33
116	Orbital-selective superconductivity, gap anisotropy, and spin resonance excitations in a multiorbital<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>t</mml:mi></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>J</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>J</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> for iron pnictides. Physical Review B, 2014, 89, .	3.2	57
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123	Fermi surface topology and de Haasâ€“van Alphen orbits in PuIn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>and PuSn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>compounds. Physical Review B, 2013, 88, .	3.2	6
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125	Electronic correlation strength of Pu. Physical Review B, 2013, 87, .	3.2	7
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