Robert Cava

List of Publications by Year
in descending order

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371 papers	36,682 citations	6840 81 h-index	3941 183 g-index
376 all docs	376 docs citations	376 times ranked	26562 citing authors

#	Article	IF	Citations
1	Honeycombâ€Structure RuI₃, A New Quantum Material Related to Î±â€RuCl₃. Advanced Materials, 2022, 34, e2106831.	11.1	20
2	Ferromagnetic Double Perovskite Semiconductors with Tunable Properties. Advanced Science, 2022, 9, e2104319.	5.6	12
3	Evidence of magnetism-induced topological protection in the axion insulator candidate EuSn ₂ P ₂. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	12
4	Magnetic cations doped into a double perovskite semiconductor. Journal of Materials Chemistry C, 2022, 10, 3232-3240.	2.7	3
5	Evidence for a monolayer excitonic insulator. Nature Physics, 2022, 18, 87-93.	6.5	70
6	LaIr₃Ga₂: A Superconductor Based on a Kagome Lattice of Ir. Chemistry of Materials, 2022, 34, 2824-2832.	3.2	20
7	Catalogue of flat-band stoichiometric materials. Nature, 2022, 603, 824-828.	13.7	65
8	One-dimensional Luttinger liquids in a two-dimensional moirÃ© lattice. Nature, 2022, 605, 57-62.	13.7	44
9	Observation of three superconducting transitions in the pressurized CDW-bearing compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TaTe</mml:mi><mml:mn>2</mml:mn></mml:msub></ Physical Review Materials, 2022, 6, .	0.9	6
10	The non-centrosymmetric layered compounds IrTe₂I and RhTe₂I. Dalton Transactions, 2022, 51, 8688-8694.	1.6	1
11	Hydrostatic pressure effect on the Co-based honeycomb magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaCo</mml:mi><mml:mn>2</mml:mn></ Physical Review B, 2022, 105, .	1.1	2
12	Antiferromagnetic to Ferromagnetic Coupling Crossover in Hybrid Nickel Chain Perovskites. Inorganic Chemistry, 2022, 61, 10486-10492.	1.9	4
13	Phase tuning of multiple Andreev reflections of Dirac fermions and the Josephson supercurrent in Alâ€“MoTe ₂ â€“Al junctions. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	2
14	Nblr 2 B 2 and Talr 2 B 2 â€“ New Low Symmetry Noncentrosymmetric Superconductors with Strong Spinâ€“Orbit Coupling. Advanced Functional Materials, 2021, 31, 2007960.	7.8	18
15	Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries. Chemistry of Materials, 2021, 33, 4-18.	3.2	104
16	Hexagonal Perovskites as Quantum Materials. Chemical Reviews, 2021, 121, 2935-2965.	23.0	52
17	Structure, Magnetism, and First-Principles Modeling of the Na_{0.5}La_{0.5}RuO₃ Perovskite. Chemistry of Materials, 2021, 33, 600-607.	3.2	5
18	Temporal and field evolution of spin excitations in the disorder-free triangular antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Na</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:m Physical Review B, 2021, 103, .	1.1	14

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19	New material platform for superconducting transmon qubits with coherence times exceeding 0.3 milliseconds. Nature Communications, 2021, 12, 1779.	5.8	224
20	Widely spaced planes of magnetic dimers in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:msub><mml:mi>Rh</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mrow><mml:mn>17</mml:mn><mml:mo>â^’</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2021, 5, .	3.1	2
21	Duality and domain wall dynamics in a twisted Kitaev chain. Nature Physics, 2021, 17, 832-836.	6.5	28
22	Superconductivity in the Endohedral Ga Cluster Compound PdGa₅. Journal of Physical Chemistry C, 2021, 125, 11294-11299.	1.5	5
23	Generalizing the Chiral Self-Assembly of Spheres and Tetrahedra to Non-Spherical and Polydisperse Molecules in (C₇₀)_x(C₆₀)_{1â€“x}(SnI₄)₂. Nano Letters, 2021, 21, 4753-4756.	4.5	2
24	Local Observations of Orbital Diamagnetism and Excitation in Three-Dimensional Dirac Fermion Systems Bi1â^’xSbx. Journal of the Physical Society of Japan, 2021, 90, 053701.	0.7	4
25	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mg</mml:mi><mml:msub><mml:mi>Pd</mml:mi><mml:mi><mml:r : A Mg-based Heusler-type superconductor. Physical Review B, 2021, 103, .	1.1	15
26	Low-temperature high-frequency dynamic magnetic susceptibility of classical spin-ice Dy2Ti2O7. Journal of Physics Condensed Matter, 2021, 33, 455802.	0.7	0
27	sâ€“p Mixing in Stereochemically Active Lone Pairs Drives the Formation of 1D Chains of Lead Bromide Square Pyramids. Inorganic Chemistry, 2021, 60, 12676-12680.	1.9	3
28	Ferromagnetic Cr₄PtGa₁₇: A Half-Heusler-Type Compound with a Breathing Pyrochlore Lattice. Journal of the American Chemical Society, 2021, 143, 14342-14351.	6.6	6
29	Magnetic transitions in the 1D chain compounds NdPd₅Ge₃ and NdPt₅Ge₃. Journal of Physics Condensed Matter, 2021, 33, 435801.	0.7	3
30	Metastable Î²-NdCo2B2: A Triclinic Polymorph with Magnetic Ordering. Chemistry of Materials, 2021, 33, 6374-6382.	3.2	1
31	Frustration enhanced by Kitaev exchange in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mover accent="true"><mml:mi>j</mml:mi><mml:mo>ĵ</mml:mo></mml:mover><mml:mtext>eff</mml:mtext></mml:msub><mml:mo>=< triangular antiferromagnet. Physical Review B, 2021, 104, .	1.1	15
32	Unconventional supercurrent phase in Ising superconductor Josephson junction with atomically thin magnetic insulator. Nature Communications, 2021, 12, 5332.	5.8	27
33	Multi-hole bands and quasiâ€“two-dimensionality in Cr₂Ge₂Te₆ studied by angle-resolved photoemission spectroscopy. Europhysics Letters, 2021, 133, 27002.	0.7	5
34	Landau quantization and highly mobile fermions in an insulator. Nature, 2021, 589, 225-229.	13.7	54
35	Beyond magnons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mn>2</mml:mn></mml: : An Ising pyrochlore antiferromagnet with all-inâ€“all-out order and random fields. Physical Review B, 2021, 104, .	1.1	6
36	Singular angular magnetoresistance and sharp resonant features in a high-mobility metal with open orbits, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>ReO</mml:mi><mml:mn>3</mml:mn></mml: Physical Review Materials, 2021, 5, .	0.9	0

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37	Magnetic Frustration in a Zeolite. Chemistry of Materials, 2021, 33, 9725-9731.	3.2	1
38	Low energy electrodynamics of CrI3 layered ferromagnet. Scientific Reports, 2021, 11, 23405.	1.6	12
39	Self-Assembly of a Chiral Cubic Three-Connected Net from the High Symmetry Molecules C₆₀ and SnI₄. Journal of the American Chemical Society, 2020, 142, 13155-13161.	6.6	9
40	Observation of [V_{Cu}^{1â€“}In_i²⁺V_{Cu}^{1â€“}] Defect Triplets in Cu-Deficient CuInS₂. Journal of Physical Chemistry C, 2020, 124, 26415-26427.	1.5	5
41	Crystal Growth, Structure, and Magnetism of the 2D Spin ¹/₂ Triangular Lattice Material Rb₃Yb(PO₄)₂. Chemistry of Materials, 2020, 32, 10670-10677.	3.2	8
42	Synthesis, structure, and magnetism of BCC KIrO₃. Dalton Transactions, 2020, 49, 12018-12024.	1.6	4
43	Identifying candidate hosts for quantum defects via data mining. Npj Computational Materials, 2020, 6, .	3.5	28
44	Enhancement of the Magnetic Coupling in Exfoliated CrCl₃ Crystals Observed by Lowâ€Temperature Magnetic Force Microscopy and Xâ€ray Magnetic Circular Dichroism. Advanced Materials, 2020, 32, e2000566.	11.1	26
45	Softening of breathing elastic mode and trigonal elastic mode in the disordered pyrochlore magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>NaCaCo</mml:mi><mml:mn>2</mml:mn><mml:mi mathvariant="normal">F</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.7	8
46	Superconductivity on a Bi Square Net in LiBi. Chemistry of Materials, 2020, 32, 3150-3159.	3.2	11
47	Special topic on topological semimetalsâ€”New directions. APL Materials, 2020, 8, .	2.2	5
48	Concurrent probing of electron-lattice dephasing induced by photoexcitation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi></mml:mrow></mml:m -TaSeTe using ultrafast electron diffraction. Physical Review B, 2020, 101, .	3.7	6
49	Effects of composition and pressure on electronic states of iron in bridgmanite. American Mineralogist, 2020, 105, 1030-1039.	0.9	7
50	Understanding the Instability of the Halide Perovskite CsPbI₃ through Temperatureâ€Dependent Structural Analysis. Advanced Materials, 2020, 32, e2001069.	11.1	107
51	K3Ir2O6 and K16.3Ir8O30, Low-Dimensional Iridates with Infinite IrO6 Chains. Journal of the American Chemical Society, 2020, 142, 5389-5395.	6.6	10
52	Catalytic Mismatching of CuInSe₂ and Ni₃Al Demonstrates Selective Photoelectrochemical CO₂ Reduction to Methanol. ACS Applied Energy Materials, 2020, 3, 109-113.	2.5	15
53	Quantum spin liquids. Science, 2020, 367, .	6.0	513
54	Weak-field induced nonmagnetic state in a Co-based honeycomb. Science Advances, 2020, 6, eaay6953.	4.7	76

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55	A Giant Bulkâ€Type Dresselhaus Splitting with 3D Chiral Spin Texture in IrBiSe. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900684.	1.2	7
56	Evidence for an edge supercurrent in the Weyl superconductor MoTe ₂. Science, 2020, 368, 534-537.	6.0	66
57	The range of non-Kitaev terms and fractional particles in Î±-RuCl3. Npj Quantum Materials, 2020, 5, .	1.8	38
58	RuAl₆â€"An Endohedral Aluminide Superconductor. Chemistry of Materials, 2020, 32, 3805-3812.	3.2	10
59	Soft-mode enhanced type-I superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LiP</mml:mi><mml:msub><mml:mi mathvariant="normal">d</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Ge</mml:mi></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	1.1	15
60	Long-range and local crystal structures of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">Ru</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> RSAVS superconductors: Materials with a superconducting state that is robust against large volume shrinkage. Physical Review Materials, 2020, 4, .	0.9	9
61	Local electronic and magnetic properties of the doped topological insulators <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mn>2</mml:mn> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2020, 102, .	0.9	7
62	Frustrated spin-1/2 triangular compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">K</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn> with easy-axis anisotropy. Physical Review B, 2020, 102, .	1.1	7
63	Homogeneous reduced moment in a gapful scalar chiral kagome antiferromagnet. Physical Review B, 2019, 100, .	1.1	6
64	Time-reversal symmetry breaking type-II Weyl state in YbMnBi2. Nature Communications, 2019, 10, 3424.	5.8	155
65	Kinetically Stable Single Crystals of Perovskite-Phase CsPbI₃. Journal of the American Chemical Society, 2019, 141, 11435-11439.	6.6	155
66	Magnetoelastic excitation spectrum in the rare-earth pyrochlore <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Tb</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub> mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 99, .	1.1	8
67	Strong quantum fluctuations in a quantum spin liquid candidate with a Co-based triangular lattice. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14505-14510.	3.3	43
68	Multiple ferromagnetic transitions and structural distortion in the van der Waals ferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>VI</mml:mi><mml:mn>3</mml:mn></mml:msub> ambient and finite pressures. Physical Review B, 2019, 100, .	1.1	33
69	Liquid Salt Transport Growth of Single Crystals of the Layered Dichalcogenides MoS₂ and WS₂. Crystal Growth and Design, 2019, 19, 5762-5767.	1.4	16
70	Ferromagnetic Semiconductors: VI₃â€"a New Layered Ferromagnetic Semiconductor (Adv.) Tj ETQq1 1 0.784314 rgBT /Ov	11.1	7
71	A New Magnetic Topological Quantum Material Candidate by Design. ACS Central Science, 2019, 5, 900-910.	5.3	63

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73	Looking for a quantum spin liquid in the BaNi2(V1â^’xPx)2O8 spin 1 honeycomb system. Philosophical Magazine, 2019, 99, 2051-2062.	0.7	1
74	VI₃â€"a New Layered Ferromagnetic Semiconductor. Advanced Materials, 2019, 31, e1808074.	11.1	157
75	Ionic and electronic properties of the topological insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mm investigated via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> -detected nuclear magnetic relaxation and resonance of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:m. Physical Review B, 2019, 99, .	1.1	10
76	A gap-protected zero-Hall effect state in the quantum limit of the non-symmorphic metal KHgSb. Nature Materials, 2019, 18, 443-447.	13.3	14
77	Synthesis and physical properties of the 10.6 K ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Nd</mml:mi><mml:msub><mml:mi>... Physical Review B, 2019, 99, .	1.1	4
78	Magnetic interactions and spin dynamics in the bond-disordered pyrochlore fluoride <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>NaCaCo</mml:mi><mml:mn>2</mml:mn></ mathvariant="normal">F</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 99, .	1.1	6
79	Interacting multi-channel topological boundary modes in a quantum Hall valley system. Nature, 2019, 566, 363-367.	13.7	19
80	Importance of Specific Heat Characterization when Reporting New Superconductors: An Example of Superconductivity in LiGa₂Rh. Chemistry of Materials, 2019, 31, 2164-2173.	3.2	18
81	Triangular Rare-Earth Lattice Materials RbBa<i>R</i>(BO₃)₂ (<i>R</i> = Y,) Tj ETQq1 1 0.784314 rgBT /Overlo Chemistry, 2019, 58, 3308-3315.	1.9	25
82	Counterrotating magnetic order in the honeycomb layers of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>NaNi</mml:mi><mml:mn>2</mml:mn></mm Physical Review B, 2019, 100, .	1.1	12
83	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. Nature, 2019, 565, 337-342.	13.7	372
84	The <i>h</i>â€Sb_{<i>x</i>}WO_{3+2<i>x</i>} Oxygen Excess Antimony Tungsten Bronze. Chemistry - A European Journal, 2019, 25, 2082-2088.	1.7	6
85	Continuum of quantum fluctuations in a three-dimensional Sâ€‰=â€‰1 Heisenberg magnet. Nature Physics, 2019, 15, 54-59.	6.5	62
86	CeIr₃: superconductivity in a phase based on tetragonally close packed clusters. Superconductor Science and Technology, 2019, 32, 025008.	1.8	14
87	Trimer-based spin liquid candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mi>NbI</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:mrow></mml:math>. Phys	0.9	14
88	High-entropy alloy superconductors: Status, opportunities, and challenges. Physical Review Materials, 2019, 3, .	0.9	88
89	Magnetism on ideal triangular lattices in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>NaBaYb</mml:mi><mml:msub><mml:mrow><mml:mo>(Physical Review Materials, 2019, 3, .	0.9	20
90	Ultrafast broadband optical spectroscopy for quantifying subpicometric coherent atomic displacements in <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 Research, 2019, 1, .	1.3	7

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91	Smectic and nematic phase modulations and transitions under electron beam in Tb2Cu0.83Pd0.17O4. Physical Review Materials, 2019, 3, .	0.9	0
92	Band Structure of the IV-VI Black Phosphorus Analog and Thermoelectric SnSe. Physical Review Letters, 2018, 120, 156403.	2.9	49
93	Bursting at the seams: Rippled monolayer bismuth on NbSe ₂. Science Advances, 2018, 4, eaaq0330.	4.7	28
94	Spin-specific heat determination of the ratio of competing first- and second-neighbor exchange interactions in frustrated spin- 12 chains. Physical Review B, 2018, 97, .	1.1	7
95	Scâ€“Zrâ€“Nbâ€“Rhâ€“Pd and Scâ€“Zrâ€“Nbâ€“Taâ€“Rhâ€“Pd High-Entropy Alloy Superconductors on a CsCl-Type Lattice. Chemistry of Materials, 2018, 30, 906-914.	3.2	82
96	Observation of the quantum spin Hall effect up to 100 kelvin in a monolayer crystal. Science, 2018, 359, 76-79.	6.0	613
97	TaRh ₂ B ₂ and NbRh ₂ B ₂ : Superconductors with a chiral noncentrosymmetric crystal structure. Science Advances, 2018, 4, eaar7969.	4.7	73
98	Stable Hydrogen Evolution from an AgRhO₂ Photocathode under Visible Light. Chemistry of Materials, 2018, 30, 2574-2582.	3.2	19
99	RE₃Mo₁₄O₃₀ and RE₂Mo₉O₁₉, Two Reduced Rare-Earth Molybdates with Honeycomb-Related Structures (RE = Laâ€“Pr). Inorganic Chemistry, 2018, 57, 3873-3882.	1.9	4
100	Nonuniform carrier density in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> evidenced by optical spectroscopy. Physical Review B, 2018, 97, .	1.1	22
101	Anomalous Hall effect in ZrTe5. Nature Physics, 2018, 14, 451-455.	6.5	192
102	Dynamics of out-of-equilibrium electron and hole pockets in the type-II Weyl semimetal candidate <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></mml:math> Physical Review B, 2018, 97, .	1.1	27
103	Phase stability of iron germanate, FeGeO3, to 127ÂGPa. Physics and Chemistry of Minerals, 2018, 45, 367-379.	0.3	3
104	Independence of topological surface state and bulk conductance in three-dimensional topological insulators. Npj Quantum Materials, 2018, 3, .	1.8	33
105	Improved H₂ Evolution in Quaternary SCIGS Chalcopyrite Semiconductors. Journal of Physical Chemistry C, 2018, 122, 24512-24519.	1.5	7
106	Crystal field levels and magnetic anisotropy in the kagome compounds <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>14</mml:mn></mml:msub></mml:mrow></mml:math> , <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi>. Physical Review B, 2018, 98, .	1.1	13
107	Electrically tunable low-density superconductivity in a monolayer topological insulator. Science, 2018, 362, 926-929.	6.0	271
108	Stabilizing the Tb-based 214 cuprate by partial Pd substitution. Journal of Materials Research, 2018, 33, 1690-1697.	1.2	3

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109	Ferroelectric quantum Hall phase revealed by visualizing Landau level wavefunction interference. Nature Physics, 2018, 14, 796-800.	6.5	11
110	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe2. Nature Physics, 2018, 14, 900-906.	6.5	249
111	Pressure-induced melting of magnetic order and emergence of a new quantum state in Î±â^'RuCl3. Physical Review B, 2018, 97, .	1.1	43
112	A Family of Pb-based Superconductors with Variable Cubic to Hexagonal Packing. Journal of the Physical Society of Japan, 2018, 87, 074711.	0.7	5
113	Probing the pathway of an ultrafast structural phase transition to illuminate the transition mechanism in Cu2S. Applied Physics Letters, 2018, 113, 041904.	1.5	8
114	Magnetoelastically induced vibronic bound state in the spin-ice pyrochlore <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ho</mml:mi><mml:mn>2</mml:mn></mml: mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 98, .	1.1	20
115	High-entropy alloy superconductors on an Î±-Mn lattice. Journal of Materials Chemistry C, 2018, 6, 10441-10449.	2.7	62
116	Reversible Structure Manipulation by Tuning Electron Dose Rate on Metastable CU2S. Microscopy and Microanalysis, 2018, 24, 94-95.	0.2	1
117	Chalcopyrite CuIn(S_{1â€“x}Se_x)₂ for Photoelectrocatalytic H₂ Evolution: Unraveling the Energetics and Complex Kinetics of Photogenerated Charge Transfer in the Semiconductor Bulk. Chemistry of Materials, 2018, 30, 4422-4431.	3.2	13
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