Alexandra Gibbs

List of Publications by Year
in descending order

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69 papers	2,038 citations	279778 23 h-index	233409 45 g-index
70 all docs	70 docs citations	70 times ranked	2673 citing authors

#	Article	IF	Citations
1	The crystal and defect structures of polar KBiNb2O7. Dalton Transactions, 2022, 51, 1866-1873.	3.3	0
2	Site-Selective d¹⁰/d⁰ Substitution in an S = ¹/₂ Spin Ladder Ba₂CuTe_{1â€“x}W_xO₆ (0 â‰¤ Tj ETQq0 0 0 rgBT /Overloc	4.0	3
3	Interplay between Oxygen Octahedral Rotation and Deformation in the Acentric ARTiO₄ Series toward Negative Thermal Expansion. Chemistry of Materials, 2022, 34, 6492-6504.	6.7	5
4	Quantum materials with strong spinâ€“orbit coupling: challenges and opportunities for materials chemists. Journal of Materials Chemistry C, 2021, 9, 11640-11654.	5.5	18
5	Comprehensive determination of the high-pressure structural behaviour of BaTiO₃. Materials Advances, 2021, 2, 6094-6103.	5.4	5
6	Structural phase transitions in the geometric ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LaTa</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	3.2	2
7	High-temperature electrical and thermal transport properties of polycrystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>PdCoO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2021, 5, .	2.4	5
8	High-sensitivity heat-capacity measurements on Sr ₂ RuO ₄ under uniaxial pressure. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	33
9	Strain-Stabilized (Ï€, Ï€) Order at the Surface of Fe_{1+x}Te. Nano Letters, 2021, 21, 2786-2792.	9.1	2
10	Ultrawide Temperature Range Super-Invar Behavior of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>R</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml stretchy="false">(</mml:mo><mml:mi>Fe</mml:mi><mml:mo>,</mml:mo><mml:mi>Co</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlo		

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19	Impact of Li Doping on the Structure and Phase Stability in AgNbO₃. Inorganic Chemistry, 2020, 59, 12595-12607.	4.0	16
20	Phase transitions in the hexagonal tungsten bronze RbNbW2O9. Journal of Solid State Chemistry, 2020, 286, 121275.	2.9	2
21	A comprehensive variable temperature study of the layered oxide, Ca2Mn3O8. Journal of Alloys and Compounds, 2020, 843, 155633.	5.5	1
22	HRPD-X; aÂproposed upgrade to the ISIS High-Resolution Powder Diffractometer. Journal of Neutron Research, 2020, 22, 91-98.	1.1	3
23	New Liâ€“Mg phosphates with a 3D framework: experimental and ab initio calculations. Dalton Transactions, 2020, 49, 10069-10083.	3.3	0
24	Complex Structural Phase Transitions of the Hybrid Improper Polar Dionâ€“Jacobson Oxides RbNdM₂O₇ and CsNdM₂O₇ (M = Nb, Ta). Chemistry of Materials, 2020, 32, 4340-4346.	6.7	21
25	Robust spin-orbit coupling induced semimetallic state in hyperkagome iridate Li3Ir3O8. Physical Review Materials, 2020, 4, .	2.4	7
26	Realizing square and diamond lattice <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn> Heisenberg antiferromagnet models in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> phases of the coordination framework, <mml:math xmlns:mml="http://www. Physical Review Materials, 2020, 4, .	2.4	6
27	An Electronically Driven Improper Ferroelectric: Tungsten Bronzes as Microstructural Analogs for the Hexagonal Manganites. Advanced Materials, 2019, 31, 1903620.	21.0	10
28	Magnetic frustration and spontaneous rotational symmetry breaking in PdCrO2. Physical Review B, 2019, 100, .	3.2	6
29	High-Resolution Photoemission on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Reveals Correlation-Enhanced Effective Spin-Orbit Coupling and Dominantly Local Self-Energies. Physical Review X, 2019, 9, .	8.9	90
30	Pressure-induced collapse of the spin-orbital Mott state in the hyperhoneycomb iridate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mo>â^'</mml:mo> Physical Review B, 2019, 99, .	3.2	24
31	Intermultiplet transitions and magnetic long-range order in Sm-based pyrochlores. Physical Review B, 2019, 99, .	3.2	9
32	Octahedral tilting in the polar hexagonal tungsten bronzes RbNbW₂O₉ and KNbW₂O₉. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 815-821.	1.1	2
33	Large easy-axis anisotropy in the one-dimensional magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BaMo</mml:mi><mml:msub><mml:mrow></mml:mrow> Physical Review B, 2019, 100, .	3.2	12
34	Unexpected phase transition sequence in the ferroelectric Bi₄Ti₃O₁₂. IUCrJ, 2019, 6, 438-446.	2.2	6
35	Crystal structures of NiSO4Â·9H2O and NiSO4Â·8H2O: magnetic properties, stability with respect to morenosite (NiSO4Â·7H2O), the solid-solution series (MgxNi1â^'x)SO4Â·9H2O. Physics and Chemistry of Minerals, 2018, 45, 695-712.	0.8	4
36	Resistivity in the Vicinity of a van Hove Singularity: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> under Uniaxial Pressure. Physical Review Letters, 2018, 120, 076602.	7.8	76

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37	Spin dynamics of coupled spin ladders near quantum criticality in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2018, 98, .	3.2	11
38	Cation Exchange as a Mechanism To Engineer Polarity in Layered Perovskites. Chemistry of Materials, 2018, 30, 8915-8924.	6.7	25
39	Micron-scale measurements of low anisotropic strain response of local <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:math> in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2018, 98, .	3.2	37
40	Hybrid Improper Ferroelectricity in (Sr,Ca)₃Sn₂O₇ and Beyond: Universal Relationship between Ferroelectric Transition Temperature and Tolerance Factor in n = 2 Ruddlesdenâ€“Popper Phases. Journal of the American Chemical Society, 2018, 140, 15690-15700.	13.7	74
41	Ferroelectric Sr₃Zr₂O₇: Competition between Hybrid Improper Ferroelectric and Antiferroelectric Mechanisms. Advanced Functional Materials, 2018, 28, 1801856.	14.9	89
42	Carbonate: an alternative dopant to stabilize new perovskite phases; synthesis and structure of Ba₃Yb₂O₅CO₃ and related isostructural phases Ba₃Ln₂O₅CO₃ (Ln = Y, Dy, Ho, Er, Tm and Lu). Dalton Transactions, 2018, 47, 12901-12906.	3.3	6
43	Magnetic interactions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PdCrO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> and their effects on its magnetic structure. Physical Review B, 2018, 98, .	3.2	12
44	Temperature-induced polymorphism in methyl stearate. CrystEngComm, 2018, 20, 6885-6893.	2.6	9
45	Neutron scattering length determination by means of total scattering. Journal of Applied Crystallography, 2018, 51, 854-866.	4.5	3
46	Crystal structure and crystal growth of the polar ferrimagnet CaBaFe4O7. Physical Review Materials, 2018, 2, .	2.4	3
47	Strong peak in T _c of Sr ₂ RuO ₄ under uniaxial pressure. Science, 2017, 355, .	12.6	200
48	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:m critical spin ladders produced by orbital ordering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2017, 95, .	3.2	13
49	Theory and Neutrons Combine To Reveal a Family of Layered Perovskites without Inversion Symmetry. Chemistry of Materials, 2017, 29, 9489-9497.	6.7	36
50	High-resolution neutron-diffraction measurements to 8 kbar. High Pressure Research, 2017, 37, 486-494.	1.2	2
51	Robust Bain distortion in the premartensite phase of a platinum-substituted Ni2MnGa magnetic shape memory alloy. Nature Communications, 2017, 8, 1006.	12.8	26
52	Cation disorder and phase transitions in the structurally complex solar cell material Cu₂ZnSnS₄. Journal of Materials Chemistry A, 2017, 5, 16672-16680.	10.3	51
53	Structural Modification of the Cation-Ordered Ruddlesdenâ€“Popper Phase YSr₂Mn₂O₇ by Cation Exchange and Anion Insertion. Inorganic Chemistry, 2017, 56, 9988-9995.	4.0	13
54	Phase Transition Behavior of the Layered Perovskite CsBi0.6La0.4Nb2O7: A Hybrid Improper Ferroelectric. Crystals, 2017, 7, 135.	2.2	11

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55	Strain Control of Fermiology and Many-Body Interactions in Two-Dimensional Ruthenates. Physical Review Letters, 2016, 116, 197003.	7.8	82
56	Quantum oscillations and magnetic reconstruction in the delafossite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">PdCrO</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 92, .	3.2	30
57	An intermediate state between the kagome-ice and the fully polarized state in Dy$_2$Ti$_2$O$_7$. Papers in Physics, 2015, 7, .	0.2	7
58	Search for spontaneous edge currents and vortex imaging in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:n mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>mesostructures. Physical Review B, 2014, 89, .	3.2	65
59	Strong Increase of <i>T</i> _c of Sr ₂ RuO ₄ Under Both Tensile and Compressive Strain. Science, 2014, 344, 283-285.	12.6	270
60	Muon-spin rotation measurements of the vortex state in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:n mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>: Type-1.5 superconductivity, vortex clustering, and a crossover from a triangular to a square vortex lattice. Physical Review B, 2014, 89, .	3.2	34
61	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub></mml:math>Mn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.3</mml:mn></mml:mrow></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	4
62	Quantum Oscillations and High Carrier Mobility in the Delafossite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>PdCoO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2012, 109, 116401.	7.8	110
63	Vortex imaging in unconventional superconductors. Physica C: Superconductivity and Its Applications, 2012, 479, 65-68.	1.2	2
64	High-temperature phase transitions of hexagonal YMnO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review B, 2011, 83, .	3.2	184
65	Vortex imaging and vortex lattice transitions in superconducting Sr<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>RuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>single crystals. Physical Review B, 2011, 84, .	3.2	102
66	Quantum oscillations near the metamagnetic transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Sr</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub Physical Review B, 2010, 81, .	3.2	27
67	Unconventional Magnetization Processes and Thermal Runaway in Spin-IceDy2Ti2O7. Physical Review Letters, 2010, 105, 267205.	7.8	58
68	Evidence for the Sr2RuO4intercalations in the Sr3Ru2O7region of the Sr3Ru2O7â€“ Sr2RuO4eutectic system. Journal of Physics: Conference Series, 2009, 150, 052113.	0.4	2
69	Low-intermediate-temperature, high-pressure thermoelastic and crystallographic properties of thermoelectric clausthalite (PbSe-I). Materials Advances, 0, , .	5.4	1