

Youwen Long

List of Publications by Year in descending order

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102
papers

3,172
citations

159358

30
h-index

161609

54
g-index

108
all docs

108
docs citations

108
times ranked

3885
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature-induced A-B intersite charge transfer in an A-site-ordered LaCu ₃ Fe ₄ O ₁₂ perovskite. Nature, 2009, 458, 60-63.	13.7	357
2	Observation of unconventional chiral fermions with long Fermi arcs in CoSi. Nature, 2019, 567, 496-499.	13.7	260
3	Tunable Room-Temperature Ferromagnetism in Two-Dimensional Cr ₂ Te ₃ . Nano Letters, 2020, 20, 3130-3139.	4.5	175
4	Synthesis of cubic SrCoO ₃ single crystal and its anisotropic magnetic and transport properties. Journal of Physics Condensed Matter, 2011, 23, 245601.	0.7	152
5	Exceptional oxygen evolution reactivities on CaCoO ₃ and SrCoO ₃ . Science Advances, 2019, 5, eaav6262.	4.7	132
6	Observation of Magnetoelectric Multiferroicity in a Cubic Perovskite System: LaMnO_3 Physical Review Letters, 2015, 115, 087601.	11.9	1001
7	Splash-Resistant and Light-Weight Silk-Sheathed Wires for Textile Electronics. Nano Letters, 2018, 18, 7085-7091.	4.5	98
8	Anomalous Electronic State in CaCrO ₃ and SrCrO ₃ . Physical Review Letters, 2006, 96, 046408.	2.9	89
9	Superconductivity above 200 K discovered in superhydrides of calcium. Nature Communications, 2022, 13, .	5.8	89
10	Superconductivity in a unique type of copper oxide. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12156-12160.	3.3	83
11	Ultrastrong Boron Frameworks in ZrB ₁₂ : A Highway for Electron Conducting. Advanced Materials, 2017, 29, 1604003.	11.1	71
12	Intermetallic Charge Transfer in A-Site-Ordered Double Perovskite BiCu ₃ Fe ₄ O ₁₂ . Inorganic Chemistry, 2009, 48, 8489-8492.	1.9	70
13	Emergent topological spin structures in the centrosymmetric cubic perovskite SrFeO_3 . Physical Review B, 2020, 101, .	11.1	62
14	A combinatory ferroelectric compound bridging simple ABO ₃ and A-site-ordered quadruple perovskite. Nature Communications, 2021, 12, 747.	5.8	62
15	Various Valence States of Square-Coordinated Mn in A-Site-Ordered Perovskites. Journal of the American Chemical Society, 2009, 131, 16244-16247.	6.6	61
16	Hardness, elastic, and electronic properties of chromium monoboride. Applied Physics Letters, 2015, 106, .	1.5	54
17	A-Site and B-Site Charge Orderings in an <i>d</i> Level Controlled Perovskite Oxide PbCoO ₃ . Journal of the American Chemical Society, 2017, 139, 4574-4581.	6.6	52
18	Realization of Large Electric Polarization and Strong Magnetoelectric Coupling in BiMn ₃ Cr ₄ O ₁₂ . Advanced Materials, 2017, 29, 1703435.	11.1	50

#	ARTICLE	IF	CITATIONS
19	Charge Transfer Induced Multifunctional Transitions with Sensitive Pressure Manipulation in a Metal-Organic Framework. Inorganic Chemistry, 2015, 54, 6433-6438. Strong enhancement of spin ordering by site magnetic ions in the ferrimagnet $\text{CaCu}_3\text{Fe}_2\text{O}_{12}$.	1.9	49
20	Intermetallic charge transfer between A-site Cu and B-site Fe in A-site-ordered double perovskites. New Journal of Physics, 2010, 12, 063029.	1.1	44
21	High-Temperature Ferrimagnetic Half Metallicity with Wide Spin-up Energy Gap in $\text{NaCu}_3\text{Fe}_2\text{O}_{12}$. Inorganic Chemistry, 2019, 58, 320-326.	1.2	43
22	A Ferrotoroidic Candidate with Well-Separated Spin Chains. Advanced Materials, 2022, 34, e2106728.	1.9	43
23	High stored energy of metallic glasses induced by high pressure. Applied Physics Letters, 2017, 110, . Evolution of magnetic phases in single crystals of SrFe_2O_7 .	1.5	40
24	Synthesis, structure, magnetism and specific heat of YCrO_4 and its zircon-to-scheelite phase transition. Physical Review B, 2007, 75, .	1.1	39
25	Pressure Effect on Intersite Charge Transfer in A-site-Ordered Double-Perovskite-Structure Oxide. Chemistry of Materials, 2012, 24, 2235-2239.	1.1	37
26	Molten-salt synthesis of porous $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{2.9}$ perovskite as an efficient electrocatalyst for oxygen evolution. Nano Research, 2018, 11, 4796-4805.	3.2	36
27	Sequential Spin State Transition and Intermetallic Charge Transfer in PbCoO_3 . Journal of the American Chemical Society, 2020, 142, 5731-5741.	5.8	35
28	Charge transfer and antiferromagnetic order in the A-site-ordered perovskite $\text{LaCu}_3\text{Fe}_4\text{O}_{12}$. Journal of Materials Chemistry, 2010, 20, 7282.	6.6	35
29	Manipulating the Structural and Electronic Properties of Epitaxial $\text{SrCoO}_{2.5}$ Thin Films by Tuning the Epitaxial Strain. ACS Applied Materials & Interfaces, 2018, 10, 10211-10219.	6.7	34
30	Various interactions and field-induced metamagnetism in the Cr_4O_{12} spin interactions and field-induced metamagnetism in the Cr_4O_{12} .	4.0	31
31	High-pressure Raman scattering and structural phase transition in YCrO_4 . Physical Review B, 2006, 74, .	1.1	29
32	$\text{LaMn}_3\text{Ni}_2\text{Mn}_2\text{O}_{12}$: An A- and B-Site Ordered Quadruple Perovskite with A-Site Tuning Orthogonal Spin Ordering. Chemistry of Materials, 2016, 28, 8988-8996.	1.1	28
33	Pressure-induced structural phase transition in CaCrO_4 : Evidence from Raman scattering studies. Applied Physics Letters, 2005, 87, 181901.	3.2	27
34	$\text{A}^2\text{B}^2\text{O}_{12}$ -site ordered quadruple perovskite oxides. Chinese Physics B, 2016, 25, 078108.	1.5	26
35		0.7	25

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37	Superconductivity in HfTe5 across weak to strong topological insulator transition induced via pressures. Scientific Reports, 2017, 7, 44367.	1.6	25
38	High-pressure Raman scattering study on zircon- to scheelite-type structural phase transitions of RCrO4. Journal of Applied Physics, 2008, 103, 093542.	1.1	24
39	Crystal structural phase transition in CaCrO4 under high pressure. Journal of Physics Condensed Matter, 2006, 18, 2421-2428.	0.7	20
40	Low-temperature neutron diffraction study of the crystal and magnetic phase transitions in DyCrO4. Journal of Magnetism and Magnetic Materials, 2010, 322, 1912-1916.	1.0	19
41	Large linear magnetoelectric effect and field-induced ferromagnetism and ferroelectricity in DyCrO4. NPG Asia Materials, 2019, 11, .	3.8	19
42	Pressure-induced spin reorientation and spin state transition in SrCoO3. Physical Review B, 2015, 92, .	1.1	18
43	High-Pressure Synthesis and Ferrimagnetic Ordering of the B-Site-Ordered Cubic Perovskite $\text{Pb}_{2-x}\text{Fe}_x\text{O}_6$. Inorganic Chemistry, 2016, 55, 9816-9821.	1.9	17
44	Observation of novel charge ordering and spin reorientation in perovskite oxide PbFeO_3 . Nature Communications, 2021, 12, 1917.	5.8	17
45	Realization of a Half Metal with a Record High Curie Temperature in Perovskite Oxides. Advanced Materials, 2022, 34, e2200626.	11.1	16
46	High-pressure synthesis and spin glass behavior of a Mn/Ir disordered quadruple perovskite $\text{CaCu}_3\text{Mn}_2\text{Ir}_2\text{O}_{12}$. Journal of Physics Condensed Matter, 2020, 32, 075701.	0.7	15
47	red node-pair annihilation in $\text{CaCu}_3\text{Mn}_2\text{Ir}_2\text{O}_{12}$. Scientific Data, 2020, 7, 1917.	1.1	14
48	Near-Room-Temperature Ferrimagnetic Ordering in a B-Site-Disordered 3d ⁵ -Hybridized Quadruple Perovskite Oxide, $\text{CaCu}_3\text{Mn}_2\text{Os}_2\text{O}_{12}$. Inorganic Chemistry, 2019, 58, 15529-15535.	1.9	14
49	Quadruple perovskite oxide $\text{LaCu}_3\text{Co}_2\text{Re}_2\text{O}_{12}$: A ferrimagnetic half metal with nearly 100% B-site degree of order. Applied Physics Letters, 2020, 117, .	1.5	14
50	Observation of $\text{A}^2\text{B}^2\text{C}^2$ -site antiferromagnetic and $\text{A}^2\text{B}^2\text{C}^2$ -site ferrimagnetic orderings in the quadruple perovskite oxide $\text{CaCu}_3\text{Mn}_2\text{Ir}_2\text{O}_{12}$. Scientific Data, 2020, 7, 1917.	1.1	12
51	Emergent physical properties of perovskite-type oxides prepared under high pressure. Dalton Transactions, 2022, 51, 1745-1753.	1.6	12
52	Superconductivity Bordering Rashba Type Topological Transition. Scientific Reports, 2017, 7, 39699.	1.6	11
53	$\text{A}^2\text{B}^2\text{C}^2$ Intersite Cooperation-Enhanced Water Splitting in Quadruple Perovskite Oxide $\text{CaCu}_3\text{Ir}_4\text{O}_{12}$. Chemistry of Materials, 2021, 33, 9295-9305.	3.2	11
54	First-principles calculations on the pressure induced zircon-type to scheelite-type phase transition of CaCrO_4 . Solid State Communications, 2006, 137, 358-361.	0.9	10

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55	Crossover from itinerant-electron to localized-electron behavior in Sr $1-x$ Ca x CrO 3 perovskite solid solution. Journal of Physics Condensed Matter, 2011, 23, 355601.	0.7	10
56	Field-Free Magnetization Switching Driven by Spin-Orbit Torque in FeCrPt Single Layer. Advanced Functional Materials, 2022, 32, .	7.8	10
57	The Unconventional Copper Oxide Superconductor with Conventional Constitution. Journal of Superconductivity and Novel Magnetism, 2020, 33, 81-85.	0.8	9
58	Magnetic and electric field dependent anisotropic magnetoelectric multiferroicity in SmMnO 3 . Physical Review B, 2021, 104, .	1.1	9
59	Magnetism and the spin state in cubic perovskite CaCoO 3 synthesized under high pressure. Physical Review Materials, 2017, 1, .	0.9	9
60	High pressure growth and characterization of SrCrO 3 single crystal. International Journal of Modern Physics B, 2015, 29, 1542025.	1.0	8
61	Pentavalent Iridium pyrochlore Cd 2 Ir 2 O 7 . Physical Review B, 2021, 103, .	1.1	8
62	High-pressure synthesis of A-site ordered perovskite CaMn 3 (Fe 3 Mn)O 12 and sequential long-range antiferromagnetic ordering and spin glass transition. Journal of Solid State Chemistry, 2019, 278, 120921.	1.4	8
63	High-pressure synthesis and magnetism of the A-site ordered perovskite YCu 3 O 12 and $Y_{1-x}Ca_x$ perovskite. Physical Review B, 2021, 103, .	1.1	8
64	High-Pressure Synthesis and Magnetism of the 4d-H-BaMnO 3 Single Crystal and Its 6d-H-Type Polymorph. Inorganic Chemistry, 2021, 60, 16308-16315.	1.9	8
65	A-site ordered perovskite CaCu 3 Cu 2 Ir 2 O 12 with square-planar and octahedral coordinated Cu ions. Chinese Physics B, 2016, 25, 020701.	0.7	7
66	High-temperature ferromagnetic semiconductor with a field-tunable green fluorescent effect. NPG Asia Materials, 2020, 12, .	3.8	7
67	Multiple magnetic transitions and electrical transport transformation of a BaFeO 3 cubic perovskite single crystal. Physical Review B, 2020, 101, .	1.1	7
68	Infrared spectroscopic study on lattice dynamics in CaFeO 3 . Physical Review B, 2017, 95, .	1.6	6
69	Non-collinear magnetic structure of manganese quadruple perovskite CdMn 7 O 12 . Scientific Reports, 2017, 7, 45939.	1.6	6
70	High-Pressure Synthesis of the Cobalt Pyrochlore Oxide Pb 2 Co 2 O 7 with Large Cation Mixed Occupancy. Inorganic Chemistry, 2017, 56, 11676-11680.	1.9	6
71	Pressure-induced superconductivity and quantum phase transitions in the Rashba material BiTeCl. Journal of Physics and Chemistry of Solids, 2019, 128, 211-217.	1.9	6
72	Large magnetic entropy change in weberite-type oxides Gd 3 MO 7 (M = Nb, Sb, and Ta). Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	2.0	6

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73	Physical realization of topological Roman surface by spin-induced ferroelectric polarization in cubic lattice. <i>Nature Communications</i> , 2022, 13, 2373.	5.8	6
74	Multiferroics: Realization of Large Electric Polarization and Strong Magnetoelectric Coupling in $\text{BiMn}_3\text{Cr}_4\text{O}_{12}$ (<i>Adv. Mater.</i> 44/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	5
75	Formation of ZnO_4 Tetrahedra and ZnO_6 Octahedra in TeZnO_3 Synthesized under High Pressure. <i>Inorganic Chemistry</i> , 2018, 57, 6716-6721.	1.9	5
76	High-Pressure Synthesis and Thermal Transport Properties of Polycrystalline BA_x *. <i>Chinese Physics Letters</i> , 2020, 37, 066202.	1.3	5
77	High-Pressure Synthesis of Two Polymorphic HgMnO_3 Phases and Distinct Magnetism from 2D to 3D. <i>Inorganic Chemistry</i> , 2020, 59, 3887-3893.	1.9	5
78	Magnetism and magnetocaloric effect study of $\text{CaFe}_{0.7}\text{Co}_{0.3}\text{O}_3$. <i>Materials Research Express</i> , 2015, 2, 046103.	0.8	4
79	Superconductivity of a cuprate with compressed local octahedron. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	4
80	High-Pressure Synthesis of a B-site $\text{Co}^{2+}/\text{Mn}^{4+}$ Disordered Quadruple Perovskite $\text{LaMn}_3\text{Co}_2\text{Mn}_2\text{O}_{12}$. <i>Inorganic Chemistry</i> , 2020, 59, 12445-12452.	1.9	4
81	Charge Disproportionation and Complex Magnetism in a PbMnO_3 Perovskite Synthesized under High Pressure. <i>Chemistry of Materials</i> , 2021, 33, 92-101.	3.2	4
82	High-pressure synthesis and special physical properties of several ordered perovskite structures. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2017, 66, 030201.	0.2	4
83	Pressure induced metallization in ACrO_3 in perovskite compounds. <i>Journal of Physics: Conference Series</i> , 2008, 121, 022017.	0.3	3
84	High-pressure synthesis and properties of new functional compounds. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2750-2756.	0.8	3
85	Characterization of magnetic symmetry and electric polarization of $\text{YCr}_{0.5}\text{Fe}_{0.5}\text{O}_3$. <i>Physical Review B</i> , 2020, 101, .	1.1	3
86	Os Doping Suppressed $\text{Cu}^{\text{II}}\text{Fe}$ Charge Transfer and Induced Structural and Magnetic Phase Transitions in $\text{LaCu}_3\text{Fe}_4\text{Os}_x\text{O}_{12}$ ($x = 1$ and) <i>Tj ETQ0 0 0 gBT /Overl</i>		
87	Suppression of magnetoelectric effects in DyCrO_4 by chemical doping. <i>Applied Physics Letters</i> , 2020, 116, 052901.	1.5	2
88	A large enhancement of ionic conductivity in $\text{SrCoO}_{2.5}$ controlled by isostructural phase transition and negative linear compressibility. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	2
89	A brief analysis of annealing process for electron-doped cuprate superconductors. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015, 64, 217402.	0.2	2
90	High pressure synthesis and physical properties of multiferroic materials with multiply-ordered perovskite structure. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 157505.	0.2	2

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91	Pressure effect in the antiperovskite phosphide superconductor SrP . Physical Review B, 2022, 105, .		
92	Formation of unusual Cr 5+ charge state in $\text{CaCr}_{0.5}\text{Fe}_{0.5}\text{O}_3$ perovskite. Chinese Physics B, 2018, 27, 037503.	0.7	1
93	Orbital selection of the double $[\text{CuO}_2]$ layer compound $\text{Ca}_3\text{Cu}_2\text{O}_4\text{Cl}_2$. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	1
94	Reply to Yamamoto: A cuprate superconductor with unconventional features. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18166-18167.	3.3	1
95	Enhancement of A-site Mn^{3+} spin ordering by B-site Mn^{4+} substitution in quadruple perovskite $\text{PbMn}_3\text{Cr}_3\text{MnO}_{12}$. Applied Physics Letters, 2021, 118, 262403.	1.5	1
96	Studies on synthesis, structure and physical properties of NbMoO_4 . Physica B: Condensed Matter, 2022, 628, 413624.	1.3	1
97	A-site Mn -tuned magnetism and electrical transport properties in the transition-metal-only perovskite oxide CaMnO_3 .		
98	Infrared spectroscopic study of $\text{CaFe}_{0.7}\text{Co}_{0.3}\text{O}_3$. Physical Review B, 2017, 96, .	1.1	0
99	Growth and Physical Properties of $\text{Sr}_x\text{Ca}_{1-x}\text{CrO}_3$ Single Crystals. Crystals, 2017, 7, 91.	1.0	0
100	Spin glassy behavior and large exchange bias effect in cubic perovskite $\text{Ba}_{0.8}\text{Sr}_{0.2}\text{FeO}_3$. Chinese Physics B, 2019, 28, 068104.	0.7	0
101	The phase multiformity and domain structure of $\text{Sr}_3\text{Ir}_2\text{O}_7$. Journal of Physics and Chemistry of Solids, 2021, 148, 109721.	1.9	0
102	Effect of Pb doping on metallic state of cubic pyrochlore $\text{Cd}_2\text{Ru}_2\text{O}_7$. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 127402.	0.2	0