

Youwen Long

List of Publications by Year in descending order

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102
papers

3,172
citations

159358

30
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161609

54
g-index

108
all docs

108
docs citations

108
times ranked

3885
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergent physical properties of perovskite-type oxides prepared under high pressure. Dalton Transactions, 2022, 51, 1745-1753.	1.6	12
2	A Ferrotoroidic Candidate with Well-Separated Spin Chains. Advanced Materials, 2022, 34, e2106728.	11.1	43
3	Studies on synthesis, structure and physical properties of NbMoO4. Physica B: Condensed Matter, 2022, 628, 413624.	1.3	1
4	Site-tuned magnetism and electrical transport properties in the transition-metal-only perovskite oxide $\text{A}_{1-x}\text{B}_x\text{MnO}_3$	1.1	1
5	Large magnetic entropy change in weberite-type oxides Gd_3MO_7 (M = Nb, Sb, and Ta). Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	2.0	6
6	Realization of a Half Metal with a Record-High Curie Temperature in Perovskite Oxides. Advanced Materials, 2022, 34, e2200626.	11.1	16
7	Field-Free Magnetization Switching Driven by Spin-Orbit Torque in $\text{L}_{1-x}\text{Fe}_x\text{CrPt}$ Single Layer. Advanced Functional Materials, 2022, 32, .	7.8	10
8	Physical realization of topological Roman surface by spin-induced ferroelectric polarization in cubic lattice. Nature Communications, 2022, 13, 2373.	5.8	6
9	Superconductivity above 200 K discovered in superhydrides of calcium. Nature Communications, 2022, 13, .	5.8	89
10	Pressure effect in the antiperovskite phosphide superconductor $\text{Sr}_2\text{P}(\text{AsO})_2$. Physical Review B, 2022, 105, .	1.2	0
11	Charge Disproportionation and Complex Magnetism in a PbMnO_3 Perovskite Synthesized under High Pressure. Chemistry of Materials, 2021, 33, 92-101.	3.2	4
12	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
13	Observation of antiferromagnetic and site-ferrimagnetic orderings in the quadruple perovskite oxide $\text{A}_2\text{B}_2\text{CaCu}_2\text{O}_{12}$	1.1	12
14	A combinatory ferroelectric compound bridging simple ABO_3 and A-site-ordered quadruple perovskite. Nature Communications, 2021, 12, 747.	5.8	62
15	Observation of novel charge ordering and spin reorientation in perovskite oxide PbFeO_3 . Nature Communications, 2021, 12, 1917.	5.8	17
16	Charge and spin degrees of freedom in site-ordered $\text{A}_2\text{B}_2\text{CaCu}_2\text{O}_{12}$ and $\text{A}_2\text{B}_2\text{Mn}_2\text{O}_{12}$	1.1	8
17	Os Doping Suppressed Cu^{2+} - Fe^{2+} Charge Transfer and Induced Structural and Magnetic Phase Transitions in $\text{LaCu}_3\text{Fe}_4\text{O}_{12}$ ($x = 1$ and $T_{\text{C}} = 10.384314$ K)	1.0	1
18	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

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19	A large enhancement of ionic conductivity in SrCoO _{2.5} controlled by isostructural phase transition and negative linear compressibility. Applied Physics Letters, 2021, 119, .	1.5	2
20	Magnetic and electric field dependent anisotropic magnetoelectric multiferroicity in SmMnO_3 . Physical Review B, 2021, 104, .	1.1	9
21	High-Pressure Synthesis and Magnetism of the Hf-BaMnO_3 Single Crystal and Its Hf -Type Polymorph. Inorganic Chemistry, 2021, 60, 16308-16315.	1.9	8
22	$\text{A}^{\text{TM}}\text{B}$ 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
23	The Unconventional Copper Oxide Superconductor with Conventional Constitution. Journal of Superconductivity and Novel Magnetism, 2020, 33, 81-85.	0.8	9
24	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
25	High-Pressure Synthesis of a B-site $\text{Co}^{2+}/\text{Mn}^{4+}$ Disordered Quadruple Perovskite $\text{LaMn}_3\text{Co}_2\text{Mn}_2\text{O}_{12}$. Inorganic Chemistry, 2020, 59, 12445-12452.	1.9	4
26	High-temperature ferromagnetic semiconductor with a field-tunable green fluorescent effect. NPG Asia Materials, 2020, 12, .	3.8	7
27	High-Pressure Synthesis and Thermal Transport Properties of Polycrystalline BA_x *. Chinese Physics Letters, 2020, 37, 066202.	1.3	5
28	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
29	Suppression of magnetoelectric effects in DyCrO_4 by chemical doping. Applied Physics Letters, 2020, 116, 052901.	1.5	2
30	High-Pressure Synthesis of Two Polymorphic HgMnO_3 Phases and Distinct Magnetism from 2D to 3D. Inorganic Chemistry, 2020, 59, 3887-3893.	1.9	5
31	Sequential Spin State Transition and Intermetallic Charge Transfer in PbCoO_3 . Journal of the American Chemical Society, 2020, 142, 5731-5741.	6.6	35
32	Characterization of magnetic symmetry and electric polarization of $\text{YCr}_0.5\text{Fe}_0.5\text{O}_3$. Physical Review B, 2020, 101, .	1.1	3
33	Emergent topological spin structures in the centrosymmetric cubic perovskite SrFeO_3 . Physical Review B, 2020, 101, .	1.1	3
34	Tunable Room-Temperature Ferromagnetism in Two-Dimensional Cr_2Te_3 . Nano Letters, 2020, 20, 3130-3139.	4.5	175
35	Multiple magnetic transitions and electrical transport transformation of a BaFeO_3 cubic perovskite single crystal. Physical Review B, 2020, 101, .	1.1	7
36	Exceptional oxygen evolution reactivities on CaCoO_3 and SrCoO_3 . Science Advances, 2019, 5, eaav6262.	4.7	132

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37	Spin glassy behavior and large exchange bias effect in cubic perovskite Ba _{0.8} Sr _{0.2} FeO _{3-δ} . Chinese Physics B, 2019, 28, 068104.	0.7	0
38	Orbital selection of the double [CuO ₂] layer compound Ca ₃ Cu ₂ O ₄ Cl ₂ . Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	1
39	Near-Room-Temperature Ferrimagnetic Ordering in a B-Site-Disordered 3d ⁴ -5d-Hybridized Quadruple Perovskite Oxide, CaCu ₃ Mn ₂ Os ₂ O ₁₂ . Inorganic Chemistry, 2019, 58, 15529-15535.	1.9	14
40	Large linear magnetoelectric effect and field-induced ferromagnetism and ferroelectricity in DyCrO ₄ . NPG Asia Materials, 2019, 11, .	3.8	19
41	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
42	Observation of unconventional chiral fermions with long Fermi arcs in CoSi. Nature, 2019, 567, 496-499.	13.7	260
43	Superconductivity of a cuprate with compressed local octahedron. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	4
44	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
45	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
46	High-Temperature Ferrimagnetic Half Metallicity with Wide Spin-up Energy Gap in NaCu ₃ Fe ₂ Os ₂ O ₁₂ . Inorganic Chemistry, 2019, 58, 320-326.	1.9	43
47	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
48	Manipulating the Structural and Electronic Properties of Epitaxial SrCo _{2.5} Thin Films by Tuning the Epitaxial Strain. ACS Applied Materials & Interfaces, 2018, 10, 10211-10219.	4.0	31
49	Molten-salt synthesis of porous La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{2.9} perovskite as an efficient electrocatalyst for oxygen evolution. Nano Research, 2018, 11, 4796-4805.	5.8	35
50	Formation of unusual Cr 5+ charge state in CaCr _{0.5} Fe _{0.5} O ₃ perovskite. Chinese Physics B, 2018, 27, 037503.	0.7	1
51	Five-valent iridium pyrochlore $Cd_2Ru_2O_7$. $\text{C}_{d_2} \text{R}_{u_2} \text{O}_{7_2}$	1.1	8
52	Splash-Resistant and Light-Weight Silk-Sheathed Wires for Textile Electronics. Nano Letters, 2018, 18, 7085-7091.	4.5	98
53	Formation of ZnO ₄ Tetrahedra and ZnO ₆ Octahedra in TeZnO ₃ Synthesized under High Pressure. Inorganic Chemistry, 2018, 57, 6716-6721.	1.9	5
54	Effect of Pb doping on metallic state of cubic pyrochlore Cd ₂ Ru ₂ O ₇ . Wuli Xuebao/Acta Physica Sinica, 2018, 67, 127402.	0.2	0

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55	High pressure synthesis and physical properties of multiferroic materials with multiply-ordered perovskite structure. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 157505.	0.2	2
56	Superconductivity Bordering Rashba Type Topological Transition. Scientific Reports, 2017, 7, 39699.	1.6	11
57	A-Site and B-Site Charge Orderings in an d Level Controlled Perovskite Oxide PbCoO_3 . Journal of the American Chemical Society, 2017, 139, 4574-4581.	6.6	52
58	Infrared spectroscopic study on lattice dynamics in CaFeO_3 . Physical Review B, 2017, 95, .		
59	Non-collinear magnetic structure of manganese quadruple perovskite $\text{CdMn}_7\text{O}_{12}$. Scientific Reports, 2017, 7, 45939.	1.6	6
60	High stored energy of metallic glasses induced by high pressure. Applied Physics Letters, 2017, 110, .	1.5	40
61	Realization of Large Electric Polarization and Strong Magnetoelectric Coupling in $\text{BiMn}_3\text{Cr}_4\text{O}_{12}$. Advanced Materials, 2017, 29, 1703435.	11.1	50
62	Infrared spectroscopic study of $\text{CaFe}_{0.7}\text{Co}_{0.3}\text{O}_3$. Physical Review B, 2017, 96, .	1.1	0
63	Evidence for pressure-induced node-pair annihilation in $\text{CaMn}_3\text{O}_{12}$. Physical Review B, 2017, 96, .	1.1	14
64	High-Pressure Synthesis of the Cobalt Pyrochlore Oxide $\text{Pb}_2\text{Co}_2\text{O}_7$ with Large Cation Mixed Occupancy. Inorganic Chemistry, 2017, 56, 11676-11680.	1.9	6
65	Superconductivity in HfTe_5 across weak to strong topological insulator transition induced via pressures. Scientific Reports, 2017, 7, 44367.	1.6	25
66	Multiferroics: Realization of Large Electric Polarization and Strong Magnetoelectric Coupling in $\text{BiMn}_3\text{Cr}_4\text{O}_{12}$ (Adv. Mater. 44/2017). Advanced Materials, 2017, 29, .	11.1	5
67	Ultrastrong Boron Frameworks in ZrB_{12} : A Highway for Electron Conducting. Advanced Materials, 2017, 29, 1604003.	11.1	71
68	Growth and Physical Properties of $\text{Sr}_x\text{Ca}_{1-x}\text{CrO}_3$ Single Crystals. Crystals, 2017, 7, 91.	1.0	0
69	Magnetism and the spin state in cubic perovskite CaCoO_3 synthesized under high pressure. Physical Review Materials, 2017, 1, .	0.9	9
70	High-pressure synthesis and special physical properties of several ordered perovskite structures. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 030201.	0.2	4
71	A -site ordered perovskite $\text{CaCu}_3\text{Cu}_2\text{Ir}_2\text{O}_{12}$ with square-planar and octahedral coordinated Cu ions. Chinese Physics B, 2016, 25, 077101.	0.7	7
72	Strong enhancement of spin ordering by A -site magnetic ions in the ferrimagnet $\text{CaCu}_3\text{Fe}_2\text{O}_{12}$. Physical Review B, 2017, 95, .	1.1	44

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73	LaMn ₃ Ni ₂ Mn ₂ O ₁₂ : An A- and B-Site Ordered Quadruple Perovskite with A-Site Tuning Orthogonal Spin Ordering. Chemistry of Materials, 2016, 28, 8988-8996.	3.2	27
74	High-Pressure Synthesis and Ferrimagnetic Ordering of the B-Site-Ordered Cubic Perovskite Pb ₂ FeOsO ₆ . Inorganic Chemistry, 2016, 55, 9816-9821.	1.9	17
75	A-site ordered quadruple perovskite oxides. Chinese Physics B, 2016, 25, 078108.	0.7	25
76	Observation of Magnetoelectric Multiferroicity in a Cubic Perovskite System: $LaMnO_{12}$. Physical Review Letters, 2015, 115, 087601.	1.9	105
77	Pressure-induced spin reorientation and spin state transition in SrCoO ₃ . Physical Review B, 2015, 92, .	1.1	18
78	Hardness, elastic, and electronic properties of chromium monoboride. Applied Physics Letters, 2015, 106, .	1.5	54
79	Charge Transfer Induced Multifunctional Transitions with Sensitive Pressure Manipulation in a Metal-Organic Framework. Inorganic Chemistry, 2015, 54, 6433-6438.	1.9	49
80	Magnetism and magnetocaloric effect study of CaFe _{0.7} Co _{0.3} O ₃ . Materials Research Express, 2015, 2, 046103.	0.8	4
81	High pressure growth and characterization of SrCrO ₃ single crystal. International Journal of Modern Physics B, 2015, 29, 1542025.	1.0	8
82	A brief analysis of annealing process for electron-doped cuprate superconductors. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 217402.	0.2	2
83	Evolution of magnetic phases in single crystals of SrFe _{1-x} Co _x MnO ₆ . Physical Review B, 2015, 91, 020407.	1.1	39
84	Pressure Effect on Intersite Charge Transfer in A-site-Ordered Double-Perovskite-Structure Oxide. Chemistry of Materials, 2012, 24, 2235-2239.	3.2	36
85	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
86	Various interactions and field-induced metamagnetism in the Cr ₄ spin crossover from itinerant electron to localized electron behavior in Sr _{1-x} CaxCrO ₃ perovskite solid solution. Journal of Physics Condensed Matter, 2011, 23, 355601.	1.1	29
87	Crossover from itinerant electron to localized electron behavior in Sr _{1-x} CaxCrO ₃ perovskite solid solution. Journal of Physics Condensed Matter, 2011, 23, 355601.	0.7	10
88	Low-temperature neutron diffraction study of the crystal and magnetic phase transitions in DyCrO ₄ . Journal of Magnetism and Magnetic Materials, 2010, 322, 1912-1916.	1.0	19
89	High-pressure synthesis and properties of new functional compounds. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2750-2756.	0.8	3
90	Intermetallic charge transfer between A-site Cu and B-site Fe in A-site-ordered double perovskites. New Journal of Physics, 2010, 12, 063029.	1.2	43

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91	Charge transfer and antiferromagnetic order in the A-site-ordered perovskite LaCu ₃ Fe ₄ O ₁₂ . Journal of Materials Chemistry, 2010, 20, 7282.	6.7	34
92	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
93	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
94	Intermetallic Charge Transfer in A-Site-Ordered Double Perovskite BiCu ₃ Fe ₄ O ₁₂ . Inorganic Chemistry, 2009, 48, 8489-8492.	1.9	70
95	High-pressure Raman scattering study on zircon- to scheelite-type structural phase transitions of RCrO ₄ . Journal of Applied Physics, 2008, 103, 093542.	1.1	24
96	Pressure induced metallization in ACrO ₃ in perovskite compounds. Journal of Physics: Conference Series, 2008, 121, 022017.	0.3	3
97	Synthesis, structure, magnetism and specific heat of YCrO ₄ and its zircon-to-scheelite phase transition. Physical Review B, 2007, 75, .	1.1	37
98	Crystal structural phase transition in CaCrO ₄ under high pressure. Journal of Physics Condensed Matter, 2006, 18, 2421-2428.	0.7	20
99	Anomalous Electronic State in CaCrO ₃ and SrCrO ₃ . Physical Review Letters, 2006, 96, 046408.	2.9	89
100	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
101	High-pressure Raman scattering and structural phase transition in YCrO ₄ . Physical Review B, 2006, 74, .	1.1	28
102	Pressure-induced structural phase transition in CaCrO ₄ : Evidence from Raman scattering studies. Applied Physics Letters, 2005, 87, 181901.	1.5	26