

Hong-Ling Cai

List of Publications by Year in descending order

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106
papers

4,861
citations

172386

29
h-index

95218

68
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108
all docs

108
docs citations

108
times ranked

3605
citing authors

#	ARTICLE	IF	CITATIONS
1	Diisopropylammonium Bromide Is a High-Temperature Molecular Ferroelectric Crystal. <i>Science</i> , 2013, 339, 425-428.	6.0	703
2	Coexistence of Magnetic and Electric Orderings in the Metal-Formate Frameworks of $[\text{NH}_4][\text{M}(\text{HCOO})_3]$. <i>Journal of the American Chemical Society</i> , 2011, 133, 14948-14951.	6.6	446
3	A Multiferroic Perdeutero Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11947-11951.	7.2	313
4	Diisopropylammonium Chloride: A Ferroelectric Organic Salt with a High Phase Transition Temperature and Practical Utilization Level of Spontaneous Polarization. <i>Advanced Materials</i> , 2011, 23, 5658-5662.	11.1	303
5	Supramolecular Bola-Like Ferroelectric: 4-Methoxyanilinium Tetrafluoroborate-18-crown-6. <i>Journal of the American Chemical Society</i> , 2011, 133, 12780-12786.	6.6	283
6	Discovery of New Ferroelectrics: $[\text{H}_2\text{dbco}]_2 \cdot [\text{Cl}_3] \cdot [\text{CuCl}_3(\text{H}_2\text{O})_2] \cdot 2\text{H}_2\text{O}$ (dbco = 1,4-Diaza-bicyclo[2.2.2]octane). <i>Journal of the American Chemical Society</i> , 2010, 132, 7300-7302.	6.6	285
7	Ferroelectricity Induced by Ordering of Twisting Motion in a Molecular Rotor. <i>Journal of the American Chemical Society</i> , 2012, 134, 11044-11049.	6.6	155
8	Switchable Dielectric, Piezoelectric, and Second-Harmonic Generation Bistability in a New Improper Ferroelectric above Room Temperature. <i>Advanced Materials</i> , 2014, 26, 4515-4520.	11.1	146
9	4-(cyanomethyl)anilinium Perchlorate: A New Displacive-Type Molecular Ferroelectric. <i>Physical Review Letters</i> , 2011, 107, 147601.	2.9	141
10	4-Methoxyanilinium Perrhenate 18-Crown-6: A New Ferroelectric with Order Originating in Swinglike Motion Slowing Down. <i>Physical Review Letters</i> , 2013, 110, 257601.	2.9	141
11	Above-Room-Temperature Magnetodielectric Coupling in a Possible Molecule-Based Multiferroic: Triethylmethylammonium Tetrabromoferrate(III). <i>Journal of the American Chemical Society</i> , 2012, 134, 18487-18490.	6.6	110
12	Ferroelectric metal organic framework (MOF). <i>Inorganic Chemistry Communication</i> , 2010, 13, 1590-1598.	1.8	98
13	Molecular ferroelectrics: where electronics meet biology. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20786.	1.3	86
14	Above Room Temperature Organic Ferroelectrics: Diprotonated 1,4-Diazabicyclo[2.2.2]octane Shifts between Two 2-Chlorobenzoates. <i>Journal of the American Chemical Society</i> , 2016, 138, 12005-12008.	6.6	81
15	Effect of oxygen content on structural and transport properties in SrTiO_3-x thin films. <i>Chemical Physics Letters</i> , 2009, 467, 313-317.	1.2	69
16	The first homochiral coordination polymer with temperature-independent piezoelectric and dielectric properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 2398.	6.7	69
17	Ferroelectric switching of elastin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2780-6.	3.3	66
18	Above-room-temperature molecular ferroelectric and fast switchable dielectric of diisopropylammonium perchlorate. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9957-9963.	2.7	53

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19	Structural, photophysical and photocatalytic properties of novel Bi ₂ AlVO ₇ . Journal of Hazardous Materials, 2009, 164, 781-789.	6.5	51
20	NIR-Activated Multimodal Photothermal/Chemodynamic/Magnetic Resonance Imaging Nanoplatform for Anticancer Therapy by Fe(II) Ions Doped MXenes (Fe ₃ C ₂). Small, 2021, 17, e2101705.	5.2	49
21	Molecule-displacive ferroelectricity in organic supramolecular solids. Scientific Reports, 2013, 3, 2249.	1.6	45
22	Enhanced ferromagnetism and ferroelectricity in multiferroic CuCr _{1-x} Ni _x O ₂ . Applied Physics Letters, 2009, 94, .	1.5	43
23	Ferroelectricity of the Orthorhombic and Tetragonal MAPbBr ₃ Single Crystal. Journal of Physical Chemistry Letters, 2019, 10, 2522-2527.	2.1	43
24	Tunable water-soluble carbon nitride by alkali-metal cations modification: Enhanced ROS-evolving and adsorption band for photodynamic therapy. Applied Catalysis B: Environmental, 2020, 269, 118848.	10.8	40
25	New photoluminescence hybrid perovskites with ultrahigh photoluminescence quantum yield and ultrahigh thermostability temperature up to 600ÅK. Nano Energy, 2020, 77, 105170.	8.2	39
26	Niobium carbide (MXene) reduces UHMWPE particle-induced osteolysis. Bioactive Materials, 2022, 8, 435-448.	8.6	38
27	Promoting carrier separation efficiently by macroscopic polarization charges and interfacial modulation for photocatalysis. Chemical Engineering Journal, 2021, 410, 128393.	6.6	35
28	Self-assembled MXene-based Schottky-junction upon Transition metal oxide for regulated tumor microenvironment and enhanced CDT/PTT/MRI activated by NIR irradiation. Chemical Engineering Journal, 2022, 427, 131925.	6.6	35
29	Ru-doping-induced ferromagnetism in charge-ordered $\text{La}_{0.4}\text{MnO}_3$. Physical Review B, 2009, 79, .	1.1	33
30	Energy Harvesting and Pd(II) Sorption Based on Organic-Inorganic Hybrid Perovskites. ACS Applied Materials & Interfaces, 2020, 12, 53799-53806.	4.0	30
31	Organic salt of hydrogen-tartaric acid: a novel wide-temperature-range ferroelectrics with a reversible phase transition. CrystEngComm, 2011, 13, 319-324.	1.3	28
32	Bridging and bonding: Zinc and potassium co-assisted crystalline g-C ₃ N ₄ for significant highly efficient upon photocatalytic hydrogen evolution. Applied Surface Science, 2021, 542, 148620.	3.1	28
33	A neutral Fe(III) compound exhibiting a two-step spin transition and dielectric anomalies. Dalton Transactions, 2013, 42, 14685.	1.6	27
34	In-situ annealed M-scheme MXene-based photocatalyst for enhanced photoelectric performance and highly selective CO ₂ photoreduction. Nano Energy, 2021, 90, 106532.	8.2	27
35	Structural and photocatalytic properties of novel Bi ₂ GaVO ₇ . Materials Chemistry and Physics, 2007, 104, 119-124.	2.0	26
36	Comment on "Ferroelectric Order of Parallel Bistable Hydrogen Bonds". Physical Review Letters, 2012, 109, 169601; discussion 169602.	2.9	26

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37	New Molecular Ferroelectrics Accompanied by Ultrahigh Second-Harmonic Generation. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1756-1762.	2.1	26
38	Integrated unit-cell-thin MXene and Schottky electric field into piezo-photocatalyst for enhanced photocarrier separation and hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 439, 135640.	6.6	25
39	The growth mechanism and ferroelectric domains of diisopropylammonium bromide films synthesized via 12-crown-4 addition at room temperature. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7626-7631.	1.3	24
40	Dislocation density and strain distribution in SrTiO ₃ film grown on (110) DyScO ₃ substrate. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 105307.	1.3	23
41	Room-temperature growth of ferroelectric diisopropylammonium bromide with 12-crown-4 addition. <i>CrystEngComm</i> , 2015, 17, 2429-2432.	1.3	23
42	Catalyst- and template-free low-temperature in situ growth of n-type CdS nanowire on p-type CdTe film and p-n heterojunction properties. <i>Scientific Reports</i> , 2016, 6, 38858.	1.6	23
43	Room temperature ferroelectricity and blue photoluminescence in zero dimensional organic lead iodine perovskites. <i>Journal of Materials Chemistry C</i> , 2021, 9, 223-227.	2.7	23
44	Molecular Ferroelectric Pyridin-4-ylmethanaminium Perchlorate Undergoes Paraelectric-Ferroelectric and Ferroelectric-Ferroelectric Phase Transitions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2925-2931.	1.5	22
45	Influence of A-site codoping on ferroelectricity of quantum paraelectric SrTiO ₃ . <i>Journal of Applied Physics</i> , 2008, 103, 124104.	1.1	21
46	A high-temperature organic-inorganic ferroelectric with outstanding switchable dielectric characteristics. <i>RSC Advances</i> , 2017, 7, 47933-47937.	1.7	21
47	Structural characterization and photocatalytic properties of novel Bi ₂ YVO ₈ . <i>Materials Research Bulletin</i> , 2008, 43, 3332-3344.	2.7	20
48	Reversible structural phase transition of pyridinium-4-carboxylic acid perchlorate. <i>Journal of Applied Crystallography</i> , 2010, 43, 1031-1035.	1.9	19
49	Two reversible ferroelectric phase transitions in diisopropylammonium perchlorate. <i>RSC Advances</i> , 2015, 5, 62647-62651.	1.7	19
50	A-site disorder induces magnetoresistance in Y and Sr co-doped La _{2/3} xYxCa _{1/3} ySryMnO ₃ . <i>Journal of Alloys and Compounds</i> , 2005, 397, 250-254.	2.8	18
51	The first example of a molecule-based ferroelectric with barium cation: catena-(1/4,2-nitrito-O,O)-bi-aqua-(18-crown-6)-barium nitrite. <i>Journal of Materials Chemistry</i> , 2012, 22, 17525.	6.7	18
52	Hydrothermal synthesis method of 5-(4-methylbiphenyl-2-yl)-1H-tetrazole. <i>Chinese Chemical Letters</i> , 2013, 24, 783-785.	4.8	18
53	2D/3D interface engineering: direct Z-scheme g-C ₃ N ₄ /YMnO ₃ heterojunction for reinforced visible-light photocatalytic oxidation. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17601-17611.	1.1	18
54	Substrate and thickness effects on structure and transport properties of La _{2/3} Ca _{1/3} MnO ₃ films. <i>Journal of Applied Physics</i> , 2004, 95, 7109-7111.	1.1	17

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55	Isosymmetric temperature-triggered structural phase transition of dabcodidium chlorochromate chloride. <i>Inorganic Chemistry Communication</i> , 2012, 17, 159-162.	1.8	17
56	Single molecule magnetic behaviour in lanthanide naphthalenesulfonate complexes. <i>Dalton Transactions</i> , 2018, 47, 17349-17356.	1.6	16
57	Composition effects on structure and optical properties in double perovskite derivatives semiconductors Cs ₂ Sn _{1-6x} Br _x (x = 0-6). <i>APL Materials</i> , 2020, 8, .	2.2	16
58	Effects of substrate on structure and the magnetic properties of (001)-textured FePt films grown at low temperature. <i>Journal of Applied Physics</i> , 2012, 111, 07A704.	1.1	15
59	Facile method to prepare CdS nanostructure based on the CdTe films. <i>Applied Surface Science</i> , 2015, 349, 740-745.	3.1	14
60	Enhancement of orbital ordering and spin polarization by controlling the dimensionality of the octahedra network. <i>Npj Quantum Materials</i> , 2016, 1, .	1.8	14
61	A series of high-temperature molecular ferroelectric crystals: chlorine doped diisopropylammonium bromide. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1959-1963.	2.7	13
62	Microstrain in Al _{0.22} Ga _{0.78} N/GaN heterostructure studied by X-ray diffraction and scattering. <i>Journal of Alloys and Compounds</i> , 2005, 397, 231-235.	2.8	12
63	High-Temperature Molecular Ferroelectric Tris(2-hydroxyethyl) Ammonium Bromide with Dielectric Relaxation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6650-6655.	2.1	12
64	Effects of A-site cation disorder on structure and magnetocaloric properties in Y and Sr codoped La ₂ Ca ₁ MnO ₃ compounds. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	11
65	The first homochiral compound with temperature-independence of piezoelectric properties. <i>Journal of Materials Chemistry</i> , 2010, 20, 1868.	6.7	11
66	Relaxation of ferroelectric thin films of diisopropylammonium perchlorate. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4029-4033.	1.3	11
67	Nonvolatile Electric Field Control of Ferromagnetic Resonance and Spin Pumping in Pt/YIG at Room Temperature. <i>Advanced Electronic Materials</i> , 2019, 5, 1800663.	2.6	11
68	Ferroelectricity of trimethylammonium bromide below room temperature. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5868-5872.	2.7	11
69	An Organic-Inorganic Hybrid Pyrrolidinium Ferroelectric Based on Solvent Selective Effect. <i>Inorganic Chemistry</i> , 2021, 60, 17212-17218.	1.9	11
70	Chiral Zn-Based Organic-Inorganic Hybrid Ferroelectrics with Large Polarization and Luminescence. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	11
71	Thermal expansion and spin gap in the normal state of YBa ₂ Cu ₃ O _y with La doping and oxygen-deficiency. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 402, 88-93.	0.6	10
72	Characterization of surface and interface structure of YBa ₂ Cu ₃ O _{7-δ} -based trilayer with La _{0.67} Ca _{0.33} MnO ₃ spacer. <i>Journal of Applied Physics</i> , 2006, 99, 08M509.	1.1	10

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73	Molecular ferroelectric pyridin-2-ylmethanaminium perchlorate with phase transition induced by disorder of perchlorate. <i>RSC Advances</i> , 2019, 9, 5470-5474.	1.7	9
74	Properties and growth of large single crystals of one-dimensional organic lead iodine perovskite. <i>CrystEngComm</i> , 2020, 22, 7090-7094.	1.3	9
75	Coupling Among Carriers and Phonons in Femtosecond Laser Pulses Excited SrRuO ₃ : A Promising Candidate for Optomechanical and Optoelectronic Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 3882-3888.	2.4	8
76	Photo-degradation organic dyes by Sb-based organic-inorganic hybrid ferroelectrics. <i>Journal of Environmental Sciences</i> , 2021, 101, 145-155.	3.2	8
77	Ultrathin niobium carbide alleviates colitis through absorbing ROS. <i>Materials and Design</i> , 2022, 213, 110351.	3.3	8
78	Room-temperature multiferroic properties in NiBi ₂ O ₄ . <i>Europhysics Letters</i> , 2010, 89, 27004.	0.7	6
79	Chiral and kryptoracemic Dy(III) complexes with field-induced single molecule magnet behavior. <i>CrystEngComm</i> , 2018, 20, 4582-4589.	1.3	6
80	Molecular Ferroelectric Piperidine-4-ylmethanaminium Perchlorate with Superior Switchable Dielectric Properties. <i>ChemistrySelect</i> , 2019, 4, 2903-2907.	0.7	6
81	Fabrication of CsPbBr ₃ films with high quality using a simple method. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 154001.	1.3	6
82	Effects of Ba doping on the phase transition of Sr ₃ Sn ₂ O ₇ . <i>Chemical Physics Letters</i> , 2019, 728, 74-79.	1.2	5
83	Structural and ferroelectric properties of orthogonal crystalline in Fe-doped HoMnO ₃ synthesized at normal pressure. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 7629-7636.	1.1	5
84	Effect of Interfacial Roughness Configuration on the Exchange-Bias Field in NiO Based Spin Valves. <i>Journal of Superconductivity and Novel Magnetism</i> , 2010, 23, 863-866.	0.8	4
85	PHASE SEPARATION INDUCED BY CATION DISORDER IN (La, Y) _{2/3} (Sr, Tj)ETQq1 1 0.784314 rgBT / 0v 2011, 25, 1501-1509.	1.0	4
86	The ferroelectric properties of 4-aminopyridinium perchlorate. <i>Chemical Physics Letters</i> , 2019, 717, 7-10.	1.2	4
87	Modulating the electronic and optical properties for SrTiO ₃ /LaAlO ₃ bilayers treated as the 2D materials by biaxial strains. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 215701.	0.7	4
88	MICROSTRUCTURES AND STRAIN RELAXATION IN MODULATION-DOPED Al _x Ga _{1-x} N/GaN HETEROSTRUCTURES. <i>International Journal of Modern Physics B</i> , 2004, 18, 989-998.	1.0	3
89	Phase Transition and Ferroelectricity of Two Perovskite-Like Mn(II) Metal-Organic Frameworks Tuned by Phosphonium Cations and Dicyanamide Ligand. <i>Crystal Growth and Design</i> , 2021, 21, 6245-6253.	1.4	3
90	Phase separation induced by cation disorder and strain in (La,Y) _{2/3} (Ca,Sr) _{1/3} MnO ₃ films. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	2

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91	Improvement of quality and stability of MAPbI ₃ films grown by post annealing under high pressure argon atmosphere. Journal Physics D: Applied Physics, 2021, 54, 075101.	1.3	2
92	Large dielectric switch effects induced by an order-disorder transformation in cyclopropylamine perchlorate crystals. Nanoscale, 2022, 14, 675-679.	2.8	2
93	Improving the Quality of CsPbBr ₃ Films by Applying the Light Soak. ACS Applied Energy Materials, 2022, 5, 5603-5609.	2.5	2
94	Crystal structure of Cu doped La _{0.67} Ca _{0.33} MnO ₃ by Rietveld refinement. Powder Diffraction, 2004, 19, 329-332.	0.4	1
95	SUBSTRATE EFFECTS ON SURFACE MORPHOLOGY IN (La _{2/3-x} Y _x)(Ca _{1/3-y} Sr _y)MnO ₃ FILMS. Surface Review and Letters, 2007, 14, 845-848.	0.5	1
96	Spin dependence scattering and spin-flip effect on the current-in-plane transport behavior in NiO-based-spin valve. Physica Status Solidi (B): Basic Research, 2010, 247, 329-334.	0.7	1
97	Bis(2-aminopyridinium) tetrachloridozincate(II). Acta Crystallographica Section E: Structure Reports Online, 2010, 66, m1596-m1596.	0.2	1
98	STRAIN RELAXATION IN SiGe VIRTUAL SUBSTRATE CHARACTERIZED BY HIGH RESOLUTION X-RAY DIFFRACTION. International Journal of Modern Physics B, 2010, 24, 4225-4231.	1.0	1
99	Structural evolution and phase transition of Sr ₃ Sn ₂ O ₇ doped with Ca. Chemical Physics Letters, 2021, 766, 138319.	1.2	1
100	Ferromagnetic insulating behavior at low temperature induced by Sn doping in the ceramic SrRuO ₃ . Journal of the American Ceramic Society, 2021, 104, 4086-4094.	1.9	1
101	Ferroelectric properties in metal-coordinated complex tris(2-hydroxyethyl) ammonium trichloro cadmium([SCp]_3). Journal of Materials Chemistry C, 2022, 10, 2255-2262.	2.7	1
102	INFLUENCE OF BIQUADRATIC INTERACTION IN THE NANO-SCALED FIBONACCI MAGNETIC MULTILAYERS. International Journal of Modern Physics B, 2005, 19, 2568-2573.	1.0	0
103	STRESS EFFECTS ON Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ THIN FILMS. Integrated Ferroelectrics, 2006, 79, 47-54.	0.3	0
104	THE RESISTIVITY INDUCED BY THE VARIATION OF Co ION'S SPIN CONFIGURATION IN (La _{2/3} Ca _{1/3} Mn _{1-x} Co _x) ₃ International Journal of Modern Physics B, 2007, 21, 3398-3400.	0.3	0
105	Strain Effect in Cation Disorder Manganite Films. Journal of Superconductivity and Novel Magnetism, 2010, 23, 867-870.	0.8	0
106	Effects of Si surficial structure on transport properties of La _{2/3} Sr _{1/3} MnO ₃ films. Chinese Physics B, 2016, 25, 106701.	0.7	0