

# Wei-Qiang Liao

## List of Publications by Year in descending order

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108  
papers

11,759  
citations

41344

49  
h-index

27406

106  
g-index

108  
all docs

108  
docs citations

108  
times ranked

8099  
citing authors

#	ARTICLE	IF	CITATIONS
1	An unprecedented azobenzene-based organic single-component ferroelectric. <i>Chemical Science</i> , 2022, 13, 4936-4943.	7.4	12
2	Optically Controlled Polarization Switching in an Organic Ferroelectric with Light- and Temperature-Triggered Phase Transitions. <i>Chemistry of Materials</i> , 2022, 34, 3067-3075.	6.7	8
3	Domain memory effect in the organic ferroics. <i>Nature Communications</i> , 2022, 13, 2379.	12.8	17
4	Unprecedented Ferroelectricity and Ferromagnetism in a Cr <sup>2+</sup> -Based Two-Dimensional Hybrid Perovskite. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3
5	Unprecedented Ferroelectricity and Ferromagnetism in a Cr <sup>2+</sup> -Based Two-Dimensional Hybrid Perovskite. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	32
6	A high- <i>T<sub>c</sub></i> organic-ionic phase transition crystal obtained from a trivalent cation. <i>CrystEngComm</i> , 2021, 23, 264-267.	2.6	1
7	A lead-free bismuth iodide organic-inorganic ferroelectric semiconductor. <i>Chemical Communications</i> , 2021, 57, 647-650.	4.1	16
8	Homochiral anionic modification toward the chemical design of organic enantiomeric ferroelectrics. <i>Chemical Communications</i> , 2021, 57, 5171-5174.	4.1	8
9	PFM (piezoresponse force microscopy)-aided design for molecular ferroelectrics. <i>Chemical Society Reviews</i> , 2021, 50, 8248-8278.	38.1	63
10	Homochiral one-dimensional ABX <sub>3</sub> lead halide perovskites with high- <i>T<sub>c</sub></i> quadratic nonlinear optical and dielectric switchings. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4756-4763.	5.9	36
11	Highly Efficient 1D/3D Ferroelectric Perovskite Solar Cell. <i>Advanced Functional Materials</i> , 2021, 31, 2100205.	14.9	24
12	Evident Dielectric Relaxation in an Organic-Inorganic Halide Perovskite. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 2749-2754.	2.0	6
13	Enantiomeric perovskite with a dual phase transition at high temperature. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1918-1922.	5.5	16
14	Room-temperature dielectric switching in a host-guest crown ether inclusion complex. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4896-4902.	6.0	15
15	H/F substitution for advanced molecular ferroelectrics. <i>Trends in Chemistry</i> , 2021, 3, 1088-1099.	8.5	48
16	Optically Induced Ferroelectric Polarization Switching in a Molecular Ferroelectric with Reversible Photoisomerization. <i>Advanced Science</i> , 2021, 8, e2102614.	11.2	31
17	Multichannel Control of Multiferroicity in Single-Component Homochiral Organic Crystals. <i>Journal of the American Chemical Society</i> , 2021, 143, 21685-21693.	13.7	52
18	A Molecular Thermochromic Ferroelectric. <i>Angewandte Chemie</i> , 2020, 132, 3523-3527.	2.0	15

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19	A Molecular Thermochromic Ferroelectric. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3495-3499.	13.8	57
20	An Above-Room-Temperature Molecular Ferroelectric: [Cyclopentylammonium] <sub>2</sub> CdBr <sub>4</sub> . <i>Inorganic Chemistry</i> , 2020, 59, 829-836.	4.0	48
21	Molecular Ferroelectricsâ€Driven Highâ€Performance Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19974-19982.	13.8	71
22	Organic Ferroelectric Vortexâ€Antivortex Domain Structure. <i>Journal of the American Chemical Society</i> , 2020, 142, 21932-21937.	13.7	31
23	Highest- <i>T<sub>c</sub></i> organic enantiomeric ferroelectrics obtained by F/H substitution. <i>Chemical Communications</i> , 2020, 56, 7033-7036.	4.1	33
24	Precise Molecular Design Toward Organicâ€Inorganic Zinc Chloride ABX <sub>3</sub> Ferroelectrics. <i>Journal of the American Chemical Society</i> , 2020, 142, 6236-6243.	13.7	74
25	Homochiral Nickel Nitrite ABX <sub>3</sub> (X = NO <sub>2</sub> <sup>â€</sup> ) Perovskite Ferroelectrics. <i>Journal of the American Chemical Society</i> , 2020, 142, 6946-6950.	13.7	45
26	A Three-Dimensional Lead Halide Perovskite-Related Ferroelectric. <i>Journal of the American Chemical Society</i> , 2020, 142, 4604-4608.	13.7	97
27	A Chiral Thermochromic Ferroelastic with Seven Physical Channel Switches. <i>Angewandte Chemie</i> , 2020, 132, 9661-9665.	2.0	16
28	A Chiral Thermochromic Ferroelastic with Seven Physical Channel Switches. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9574-9578.	13.8	106
29	Switchable Dielectric Phase Transition with Drastic Symmetry Breaking in a Sn(IV)-Based Perovskite-Type Halide Semiconductor. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21161-21166.	3.1	31
30	High-Temperature Dielectric Switching and Photoluminescence in a Corrugated Lead Bromide Layer Hybrid Perovskite Semiconductor. <i>Inorganic Chemistry</i> , 2019, 58, 10357-10363.	4.0	43
31	A Threeâ€Dimensional M <sub>3</sub> ABâ€Type Hybrid Organicâ€Inorganic Antiperovskite Ferroelectric: [C <sub>3</sub> H <sub>7</sub> FN] <sub>3</sub> [SnCl <sub>6</sub> ]Cl. <i>Chemistry - A European Journal</i> , 2019, 25, 16625-16629.	3.3	18
32	Opticalâ€Dielectric Duple Bistable Switches: Photoluminescence of Reversible Phase Transition Molecular Material. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3863-3867.	3.3	6
33	Two-Dimensional Organicâ€Inorganic Perovskite Ferroelectric Semiconductors with Fluorinated Aromatic Spacers. <i>Journal of the American Chemical Society</i> , 2019, 141, 18334-18340.	13.7	157
34	Above room-temperature dielectric and nonlinear optical switching materials based on [(CH <sub>3</sub> ) <sub>3</sub> S] <sub>2</sub> [MBr <sub>4</sub> ] (M = Cd, Mn and Zn). <i>Dalton Transactions</i> , 2019, 48, 11292-11297.	3.3	34
35	H/Fâ€Substitutionâ€Induced Homochirality for Designing High- <i>T<sub>c</sub></i> Molecular Perovskite Ferroelectrics. <i>Advanced Materials</i> , 2019, 31, e1902163.	21.0	117
36	Reversible high temperature dielectric switching in a 2 <i>H</i> -perovskite compound: [Me <sub>3</sub> NCH <sub>2</sub> CH <sub>3</sub> ] <sub>2</sub> CdCl <sub>3</sub> . <i>CrystEngComm</i> , 2019, 21, 2669-2674.	2.6	15

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37	The First 2D Homochiral Lead Iodide Perovskite Ferroelectrics: [ <i>R</i> - and <i>S</i> -(4-Chlorophenyl)ethylammonium] <sub>2</sub> PbI <sub>4</sub> . <i>Advanced Materials</i> , 2019, 31, 21.0 e1808088.		268
38	Organic enantiomeric high- <i>T<sub>c</sub></i> ferroelectrics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5878-5885.	7.1	137
39	[C <sub>6</sub> N <sub>2</sub> H <sub>18</sub> ][Sb <sub>5</sub> ]: A Lead-free Hybrid Halide Semiconductor with Exceptional Dielectric Relaxation. <i>Inorganic Chemistry</i> , 2019, 58, 4337-4343.	4.0	24
40	A molecular perovskite solid solution with piezoelectricity stronger than lead zirconate titanate. <i>Science</i> , 2019, 363, 1206-1210.	12.6	401
41	Ultrahigh phase transition temperature in a metal-halide perovskite-type material containing unprecedented hydrogen bonding interactions. <i>Dalton Transactions</i> , 2019, 48, 6621-6626.	3.3	16
42	A high temperature optic-electric duple switching organic ionic compound: 1,4,7-triazoniacyclononane tetrafluoroborate dichloride. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5348-5352.	5.5	9
43	Unprecedented Dielectric Bistable Switching in a Binuclear HgII Based Hybrid Compound. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 800-807.	2.0	10
44	Fluorine Substitution Induced High <i>T<sub>c</sub></i> of Enantiomeric Perovskite Ferroelectrics: ( <i>R</i> )- and ( <i>S</i> )-3-(Fluoropyrrolidinium)MnCl <sub>3</sub> . <i>Journal of the American Chemical Society</i> , 2019, 141, 4474-4479.	13.7	160
45	A Semiconducting Organic-Inorganic Hybrid Perovskite-type Non-ferroelectric Piezoelectric with Excellent Piezoelectricity. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1028-1033.	3.3	18
46	Atomistic Mechanism of Broadband Emission in Metal Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 501-506.	4.6	190
47	Directional Intermolecular Interactions for Precise Molecular Design of a High- <i>T<sub>c</sub></i> Multiaxial Molecular Ferroelectric. <i>Journal of the American Chemical Society</i> , 2019, 141, 1781-1787.	13.7	74
48	Competitive Halogen Bond in the Molecular Ferroelectric with Large Piezoelectric Response. <i>Journal of the American Chemical Society</i> , 2018, 140, 3975-3980.	13.7	151
49	High-temperature reversible phase transitions and exceptional dielectric anomalies in cobalt(II) based ionic crystals: [Me <sub>3</sub> NCH <sub>2</sub> X] <sub>2</sub> [CoX <sub>4</sub> ] (X = Cl and Br). <i>Dalton Transactions</i> , 2018, 47, 6218-6224.	3.3	28
50	High-temperature sequential structural transitions with distinct switchable dielectric behaviors in two organic ionic plastic crystals: [C <sub>4</sub> H <sub>11</sub> NBr][ClO <sub>4</sub> ] and [C <sub>4</sub> H <sub>11</sub> NBr][BF <sub>4</sub> ]. <i>CrystEngComm</i> , 2018, 20, 454-459.	2.6	19
51	The Narrowest Band Gap Ever Observed in Molecular Ferroelectrics: Hexane-1,6-diammonium Pentaiodobismuth(III). <i>Angewandte Chemie</i> , 2018, 130, 535-539.	2.0	72
52	The Narrowest Band Gap Ever Observed in Molecular Ferroelectrics: Hexane-1,6-diammonium Pentaiodobismuth(III). <i>Angewandte Chemie - International Edition</i> , 2018, 57, 526-530.	13.8	85
53	A temperature-triggered triplex bistable switch in a hybrid multifunctional material: [(CH <sub>2</sub> ) <sub>4</sub> N(CH <sub>2</sub> ) <sub>4</sub> ] <sub>2</sub> [MnBr <sub>4</sub> ]. <i>Dalton Transactions</i> , 2018, 47, 16995-17003.	3.3	43
54	High-Temperature Ferroelastic Phase Transition in an Organic-Inorganic Hybrid: [(CH <sub>3</sub> ) <sub>3</sub> NCH <sub>2</sub> Br] <sub>2</sub> ·ZnBr <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2018, 122, 23111-23116.	3.1	30

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55	Switchable dielectric phase transition behaviors in two organic-inorganic copper halides with distinct coordination geometries. <i>CrystEngComm</i> , 2018, 20, 6261-6266.	2.6	8
56	A Room-Temperature Hybrid Lead Iodide Perovskite Ferroelectric. <i>Journal of the American Chemical Society</i> , 2018, 140, 12296-12302.	13.7	168
57	Experimental Evidence for a Triboluminescent Antiperovskite Ferroelectric: Tris(trimethylammonium) tetrachloromanganate(II). <i>Angewandte Chemie</i> , 2018, 130, 12115-12118.	2.0	17
58	Three-dimensional organic-inorganic hybrid sodium halide perovskite: $C_4H_{12}N_2 \cdot NaCl_3$ and a hydrogen-bonded supramolecular three-dimensional network in $3C_4H_{12}N_2 \cdot 3NaCl \cdot 3H_2O$ . <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018, 74, 728-733.	0.5	6
59	Experimental Evidence for a Triboluminescent Antiperovskite Ferroelectric: Tris(trimethylammonium) tetrachloromanganate(II). <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11939-11942.	13.8	24
60	Metal-free three-dimensional perovskite ferroelectrics. <i>Science</i> , 2018, 361, 151-155.	12.6	570
61	A high-temperature molecular ferroelastic phase transition and switchable dielectric response in the trimethylbromomethylammonium salt $[C_4H_{11}NBr][PF_6]$ . <i>New Journal of Chemistry</i> , 2018, 42, 14909-14913.	2.8	13
62	Multiaxial Molecular Ferroelectric Thin Films Bring Light to Practical Applications. <i>Journal of the American Chemical Society</i> , 2018, 140, 8051-8059.	13.7	160
63	Discovery of an Antiperovskite Ferroelectric in $[(CH_3)_3NH]_3(MnBr_3)(MnBr_4)$ . <i>Journal of the American Chemical Society</i> , 2018, 140, 8110-8113.	13.7	79
64	A semiconducting molecular ferroelectric with a bandgap much lower than that of BiFeO <sub>3</sub> . <i>NPG Asia Materials</i> , 2017, 9, e342-e342.	7.9	54
65	Low-bandgap mixed lead iodide perovskite absorbers with long carrier lifetimes for all-perovskite tandem solar cells. <i>Nature Energy</i> , 2017, 2, .	39.5	634
66	Dielectric and ferroelectric sensing based on molecular recognition in $Cu(1,10\text{-phenanthroline})_2SeO_4 \cdot (diol)$ systems. <i>Nature Communications</i> , 2017, 8, 14551.	12.8	36
67	Tunable Dielectric Responses Triggered by Dimensionality Modification in Organic-Inorganic Hybrid Phase Transition Compounds $(C_5H_6N)Cd_2Cl_{2n+1}$ ( $n = 1$ and $2$ ). <i>Inorganic Chemistry</i> , 2017, 56, 3506-3511.	4.0	22
68	Understanding and Eliminating Hysteresis for Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700414.	19.5	190
69	Synergistic Effects of Lead Thiocyanate Additive and Solvent Annealing on the Performance of Wide-Bandgap Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 1177-1182.	17.4	190
70	An Above-Room-Temperature Phase Transition with Dielectric Switching Properties in a Halogenobismuthate(III) - Tris(Cyclohexylmethylammonium) Pentabromobismuthate(III) Bromide. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 3555-3560.	2.0	5
71	Unprecedented Ferroelectric-Antiferroelectric-Paraelectric Phase Transitions Discovered in an Organic-Inorganic Hybrid Perovskite. <i>Journal of the American Chemical Society</i> , 2017, 139, 8752-8757.	13.7	105
72	Compositional and morphological engineering of mixed cation perovskite films for highly efficient planar and flexible solar cells with reduced hysteresis. <i>Nano Energy</i> , 2017, 35, 223-232.	16.0	162



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91	Temperature-Triggered Dielectric-Optical Duple Switch Based on an Organicâ€“Inorganic Hybrid Phase Transition Crystal: $[C_{50}N_2H_{16}]_2SbBr_5$ . Inorganic Chemistry, 2016, 55, 7661-7666.	4.0	31
92	Improving the Performance of Formamidinium and Cesium Lead Triiodide Perovskite Solar Cells using Lead Thiocyanate Additives. ChemSusChem, 2016, 9, 3288-3297.	6.8	178
93	Employing Lead Thiocyanate Additive to Reduce the Hysteresis and Boost the Fill Factor of Planar Perovskite Solar Cells. Advanced Materials, 2016, 28, 5214-5221.	21.0	487
94	Bandgap Engineering of Leadâ€“Halide Perovskiteâ€“Type Ferroelectrics. Advanced Materials, 2016, 28, 2579-2586.	21.0	298
95	Design and Prominent Dielectric Properties of a Layered Phase-Transition Crystal: (Cyclohexylmethylammonium) $_2CdCl_4$ . Crystal Growth and Design, 2016, 16, 3912-3916.	3.0	24
96	Photovoltaic Properties of Two-Dimensional $(CH_3NH_3)_2Pb(SCN)_2I_2$ Perovskite: A Combined Experimental and Density Functional Theory Study. Journal of Physical Chemistry Letters, 2016, 7, 1213-1218.	4.6	135
97	Structural characterization, phase transition and switchable dielectric behaviors in a new zigzag chain organicâ€“inorganic hybrid compound: $[C_3H_7NH_3]_2SbI_5$ . Dalton Transactions, 2016, 45, 5229-5233.	3.3	30
98	Dielectric and photoluminescence properties of a layered perovskite-type organicâ€“inorganic hybrid phase transition compound: $NH_3(CH_2)_5NH_3MnCl_4$ . Journal of Materials Chemistry C, 2016, 4, 1881-1885.	5.5	84
99	The First Organicâ€“Inorganic Hybrid Luminescent Multiferroic: (Pyrrolidinium) $MnBr_3$ . Advanced Materials, 2015, 27, 3942-3946.	21.0	263
100	A lead-halide perovskite molecular ferroelectric semiconductor. Nature Communications, 2015, 6, 7338.	12.8	538
101	Phase transitions and dielectric properties of a hexagonal $ABX_3$ perovskite-type organicâ€“inorganic hybrid compound: $[C_3H_4NS][CdBr_3]$ . Dalton Transactions, 2015, 44, 10614-10620.	3.3	60
102	Highly Efficient Red-Light Emission in An Organicâ€“Inorganic Hybrid Ferroelectric: (Pyrrolidinium) $MnCl_3$ . Journal of the American Chemical Society, 2015, 137, 4928-4931.	13.7	308
103	High-Temperature Ferroelectricity and Photoluminescence in a Hybrid Organicâ€“Inorganic Compound: (3-Pyrrolinium) $MnCl_3$ . Journal of the American Chemical Society, 2015, 137, 13148-13154.	13.7	246
104	Sequential structural transitions with distinct dielectric responses in a layered perovskite organicâ€“inorganic hybrid material: $[C_4H_9N]_2[PbBr_4]$ . Dalton Transactions, 2015, 44, 20406-20412.	3.3	56
105	Structural phase transitions coupled with prominent dielectric anomalies and dielectric relaxation in a one-dimensional organicâ€“inorganic hybrid compound $[C_3H_4NS][CdCl_3]$ . Journal of Materials Chemistry C, 2015, 3, 8535-8541.	5.5	22
106	Temperature-Triggered Reversible Dielectric and Nonlinear Optical Switch Based on the One-Dimensional Organicâ€“Inorganic Hybrid Phase Transition Compound $[C_6H_{11}NH_3]_2CdCl_4$ . Inorganic Chemistry, 2014, 53, 11146-11151.	4.0	85
107	Structural Phase Transitions of a Layered Organicâ€“Inorganic Hybrid Compound: Tetra(cyclopentylammonium) Decachlorotricadmate(II), $[C_5H_9NH_3]_4Cd_3Cl_{10}$ . Inorganic Chemistry, 2014, 53, 8913-8918.	4.0	50
108	Reversible Phase Transition of 1,4-Diazoniabicyclo[2.2.2]octane-1-acetate-4-acetic Acid Chloride Trihydrate. Crystal Growth and Design, 2013, 13, 4025-4030.	3.0	35