Yuan-Yuan Tang

List of Publications by Year
in descending order

64 papers	6,449 citations	71102 41 h-index	110387 64 g-index
64 all docs	64 docs citations	64 times ranked	2826 citing authors

#	Article	IF	Citations
1	[(Histamine)(18-crown-6)₂][BF₄]₂ is a high-temperature piezoelectric. Chemical Communications, 2022, , .	4.1	7
2	Multiaxial Ferroelectricity and Ferroelasticity in a Chiral Perovskite. Chemistry of Materials, 2022, 34, 3518-3524.	6.7	23
3	Domain memory effect in the organic ferroics. Nature Communications, 2022, 13, 2379.	12.8	17
4	Contactless Manipulation of Writeâ€“Readâ€“Erase Data Storage in Diarylethene Ferroelectric Crystals. Journal of the American Chemical Society, 2022, 144, 8633-8640.	13.7	58
5	Unprecedented Ferroelectricity and Ferromagnetism in a Cr²⁺â€Based Twoâ€Dimensional Hybrid Perovskite. Angewandte Chemie, 2022, 134, .	2.0	3
6	Unprecedented Ferroelectricity and Ferromagnetism in a Cr²⁺â€Based Twoâ€Dimensional Hybrid Perovskite. Angewandte Chemie - International Edition, 2022, 61, .	13.8	32
7	PFM (piezoresponse force microscopy)-aided design for molecular ferroelectrics. Chemical Society Reviews, 2021, 50, 8248-8278.	38.1	63
8	Highly Efficient 1D/3D Ferroelectric Perovskite Solar Cell. Advanced Functional Materials, 2021, 31, 2100205.	14.9	24
9	Ferroelectrochemistry. APL Materials, 2021, 9, .	5.1	29
10	Optical Control of Polarization Switching in a Single-Component Organic Ferroelectric Crystal. Journal of the American Chemical Society, 2021, 143, 13816-13823.	13.7	53
11	Coexistence of magnetic and electric orderings in a divalent Cr²⁺-based multiaxial molecular ferroelectric. Chemical Science, 2021, 12, 9742-9747.	7.4	33
12	Monofluorine substitution achieved high-<i>T</i>_cdielectric transition in a one-dimensional lead bromide hybrid photoluminescent perovskite semiconductor. Materials Chemistry Frontiers, 2021, 5, 2842-2848.	5.9	12
13	Multichannel Control of Multiferroicity in Single-Component Homochiral Organic Crystals. Journal of the American Chemical Society, 2021, 143, 21685-21693.	13.7	52
14	Rational Design of Ceramic-Like Molecular Ferroelectric by Quasi-Spherical Theory. Journal of the American Chemical Society, 2020, 142, 1995-2000.	13.7	57
15	Two-Dimensional Layered Perovskite Ferroelectric with Giant Piezoelectric Voltage Coefficient. Journal of the American Chemical Society, 2020, 142, 1077-1082.	13.7	166
16	A Molecular Thermochromic Ferroelectric. Angewandte Chemie, 2020, 132, 3523-3527.	2.0	15
17	A Molecular Thermochromic Ferroelectric. Angewandte Chemie - International Edition, 2020, 59, 3495-3499.	13.8	57
18	An Above-Room-Temperature Molecular Ferroelectric: [Cyclopentylammonium]₂CdBr₄. Inorganic Chemistry, 2020, 59, 829-836.	4.0	48

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19	Record Enhancement of Phase Transition Temperature Realized by H/F Substitution. Advanced Materials, 2020, 32, e2003530.	21.0	66
20	Six-Fold Vertices in a Single-Component Organic Ferroelectric with Most Equivalent Polarization Directions. Journal of the American Chemical Society, 2020, 142, 13989-13995.	13.7	34
21	Organic Ferroelectric Vortexâ€“Antivortex Domain Structure. Journal of the American Chemical Society, 2020, 142, 21932-21937.	13.7	31
22	Three-Dimensional Lead Bromide Hybrid Ferroelectric Realized by Lattice Expansion. Journal of the American Chemical Society, 2020, 142, 19698-19704.	13.7	31
23	The Soft Molecular Polycrystalline Ferroelectric Realized by the Fluorination Effect. Journal of the American Chemical Society, 2020, 142, 12486-12492.	13.7	102
24	Precise Molecular Design Toward Organicâ€“Inorganic Zinc Chloride ABX₃ Ferroelectrics. Journal of the American Chemical Society, 2020, 142, 6236-6243.	13.7	74
25	Observation of Vortex Domains in a Two-Dimensional Lead Iodide Perovskite Ferroelectric. Journal of the American Chemical Society, 2020, 142, 4925-4931.	13.7	153
26	The distinguishing of <i>cis</i>â€“<i>trans</i> isomers enabled <i>via</i> dielectric/ferroelectric signal feedback in a supramolecular Cu(1,10-phenanthroline)₂SeO₄Â·(diol) system. Journal of Materials Chemistry C, 2019, 7, 11022-11028.	5.5	9
27	Fluorination observed<i>T</i>_cincrease of 110 K is challenging the hydrogenâ€“deuterium isotope effect. Chemical Communications, 2019, 55, 10007-10010.	4.1	27
28	A Threeâ€Dimensional M₃ABâ€Type Hybrid Organicâ€“Inorganic Antiperovskite Ferroelectric: [C₃H₇FN]₃[SnCl₆]Cl. Chemistry - A European Journal, 2019, 25, 16625-16629.	3.3	18
29	Two-Dimensional Organicâ€“Inorganic Perovskite Ferroelectric Semiconductors with Fluorinated Aromatic Spacers. Journal of the American Chemical Society, 2019, 141, 18334-18340.	13.7	157
30	The first high-temperature multiaxial ferroelectric hostâ€“guest inclusion compound. Chemical Communications, 2019, 55, 11571-11574.	4.1	40
31	H/Fâ€Substitutionâ€Induced Homochirality for Designing Highâ€<i>T</i>_c Molecular Perovskite Ferroelectrics. Advanced Materials, 2019, 31, e1902163.	21.0	117
32	The First 2D Homochiral Lead Iodide Perovskite Ferroelectrics: [<i>R</i>â€and <i>S</i>â€1â€(4â€Chlorophenyl)ethylammonium]₂PbI₄. Advanced Materials, 2019, 31, e1808088.	21.0	268
33	Organic enantiomeric high- <i>T</i> _c ferroelectrics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5878-5885.	7.1	137
34	A molecular perovskite solid solution with piezoelectricity stronger than lead zirconate titanate. Science, 2019, 363, 1206-1210.	12.6	401
35	Toward the Targeted Design of Molecular Ferroelectrics: Modifying Molecular Symmetries and Homochirality. Accounts of Chemical Research, 2019, 52, 1928-1938.	15.6	250
36	Fluoridation Achieved Antiperovskite Molecular Ferroelectric in [(CH₃)₂(F-CH₂CH₂)NH]₃(CdCl₃)(CdCl₄). Journal of the American Chemical Society, 2019, 141, 4372-4378.	13.7	43

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37	Fluorine Substitution Induced High <i>T</i>_c of Enantiomeric Perovskite Ferroelectrics: (<i>R</i>)<i>-</i> and (<i>S</i>)<i>-</i>3-(Fluoropyrrolidinium)MnCl₃. Journal of the American Chemical Society, 2019, 141, 4474-4479.	13.7	160
38	Competitive Halogen Bond in the Molecular Ferroelectric with Large Piezoelectric Response. Journal of the American Chemical Society, 2018, 140, 3975-3980.	13.7	151
39	The Narrowest Band Gap Ever Observed in Molecular Ferroelectrics: Hexaneâ€1,6â€diammonium Pentaiodobismuth(III). Angewandte Chemie - International Edition, 2018, 57, 526-530.	13.8	85
40	A Room-Temperature Hybrid Lead Iodide Perovskite Ferroelectric. Journal of the American Chemical Society, 2018, 140, 12296-12302.	13.7	168
41	Experimental Evidence for a Triboluminescent Antiperovskite Ferroelectric: Tris(trimethylammonium) <i>catena</i>â€Triâ€Î¼â€chloroâ€manganate(II) Tetrachloromanganate(II). Angewandte Chemie, 2018, 130, 12115-12118.	2.0	17
42	Experimental Evidence for a Triboluminescent Antiperovskite Ferroelectric: Tris(trimethylammonium) <i>catena</i>â€Triâ€Î¼â€chloroâ€manganate(II) Tetrachloromanganate(II). Angewandte Chemie - International Edition, 2018, 57, 11939-11942.	13.8	24
43	Metal-free three-dimensional perovskite ferroelectrics. Science, 2018, 361, 151-155.	12.6	570
44	Multiaxial Molecular Ferroelectric Thin Films Bring Light to Practical Applications. Journal of the American Chemical Society, 2018, 140, 8051-8059.	13.7	160
45	Discovery of an Antiperovskite Ferroelectric in [(CH₃)₃NH]₃(MnBr₃)(MnBr₄). Journal of the American Chemical Society, 2018, 140, 8110-8113.	13.7	79
46	A semiconducting molecular ferroelectric with a bandgap much lower than that of BiFeO3. NPG Asia Materials, 2017, 9, e342-e342.	7.9	54
47	De Novo Discovery of [Hdabco]BF₄ Molecular Ferroelectric Thin Film for Nonvolatile Low-Voltage Memories. Journal of the American Chemical Society, 2017, 139, 1319-1324.	13.7	88
48	A Three-Dimensional Molecular Perovskite Ferroelectric: (3-Ammoniopyrrolidinium)RbBr₃. Journal of the American Chemical Society, 2017, 139, 3954-3957.	13.7	153
49	A Molecular Perovskite with Switchable Coordination Bonds for High-Temperature Multiaxial Ferroelectrics. Journal of the American Chemical Society, 2017, 139, 6369-6375.	13.7	254
50	Unprecedented Ferroelectricâ€"Antiferroelectricâ€"Paraelectric Phase Transitions Discovered in an Organicâ€"Inorganic Hybrid Perovskite. Journal of the American Chemical Society, 2017, 139, 8752-8757.	13.7	105
51	Quinuclidinium salt ferroelectric thin-film with duodecuple-rotational polarization-directions. Nature Communications, 2017, 8, 14934.	12.8	75
52	Tunable electroresistance and electro-optic effects of transparent molecular ferroelectrics. Science Advances, 2017, 3, e1701008.	10.3	44
53	A Ferroelectric Iron(II) Spin Crossover Material. Angewandte Chemie, 2017, 129, 14240-14244.	2.0	17
54	A Multiaxial Molecular Ferroelectric with Highest Curie Temperature and Fastest Polarization Switching. Journal of the American Chemical Society, 2017, 139, 13903-13908.	13.7	92

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55	A Ferroelectric Iron(II) Spin Crossover Material. Angewandte Chemie - International Edition, 2017, 56, 14052-14056.	13.8	58
56	Precise Molecular Design of High-<i>T</i>_c 3D Organicâ€“Inorganic Perovskite Ferroelectric: [MeHdabco]RbI₃ (MeHdabco =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (<i>N</i>-Methyl-1,4-diazoniab 10897-10902.	13.7	190
57	Large Piezoelectric Effect in a Lead-Free Molecular Ferroelectric Thin Film. Journal of the American Chemical Society, 2017, 139, 18071-18077.	13.7	160
58	Visualization of Room-Temperature Ferroelectricity and Polarization Rotation in the Thin Film of Quinuclidinium Perrhenate. Physical Review Letters, 2017, 119, 207602.	7.8	50
59	Chiral Molecular Ferroelectrics with Polarized Optical Effect and Electroresistive Switching. ACS Nano, 2017, 11, 11739-11745.	14.6	26
60	A Molecular Polycrystalline Ferroelectric with Recordâ€High Phase Transition Temperature. Advanced Materials, 2017, 29, 1700831.	21.0	72
61	Symmetry breaking in molecular ferroelectrics. Chemical Society Reviews, 2016, 45, 3811-3827.	38.1	499
62	Molecular Ferroelectric with Most Equivalent Polarization Directions Induced by the Plastic Phase Transition. Journal of the American Chemical Society, 2016, 138, 13175-13178.	13.7	125
63	Anomalously rotary polarization discovered in homochiral organic ferroelectrics. Nature Communications, 2016, 7, 13635.	12.8	129
64	Ultrafast Polarization Switching in a Biaxial Molecular Ferroelectric Thin Film: [Hdabco]ClO₄. Journal of the American Chemical Society, 2016, 138, 15784-15789.	13.7	107