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	Metal-free three-dimensional perovskite ferroelectrics. Science, 2018, 361, 151-155.	12.6	570
2	Symmetry breaking in molecular ferroelectrics. Chemical Society Reviews, 2016, 45, 3811-3827.	38.1	499
3	A molecular perovskite solid solution with piezoelectricity stronger than lead zirconate titanate. Science, 2019, 363, 1206-1210.	12.6	401
4	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
5	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
6	Toward the Targeted Design of Molecular Ferroelectrics: Modifying Molecular Symmetries and Homochirality. Accounts of Chemical Research, 2019, 52, 1928-1938.	15.6	250
7	Precise Molecular Design of High-<i>T</i>_c 3D Organicâ€"Inorganic Perovskite Ferroelectric: [MeHdabco]RbI₃ (MeHdabco =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 502 Td (<i>N</i>-Methyl-1,4-d 10897-10902.	13.7	190
8	A Room-Temperature Hybrid Lead Iodide Perovskite Ferroelectric. Journal of the American Chemical Society, 2018, 140, 12296-12302.	13.7	168
9	Two-Dimensional Layered Perovskite Ferroelectric with Giant Piezoelectric Voltage Coefficient. Journal of the American Chemical Society, 2020, 142, 1077-1082.	13.7	166
10	Large Piezoelectric Effect in a Lead-Free Molecular Ferroelectric Thin Film. Journal of the American Chemical Society, 2017, 139, 18071-18077.	13.7	160
11	Multiaxial Molecular Ferroelectric Thin Films Bring Light to Practical Applications. Journal of the American Chemical Society, 2018, 140, 8051-8059.	13.7	160
12	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
13	Two-Dimensional Organicâ€"Inorganic Perovskite Ferroelectric Semiconductors with Fluorinated Aromatic Spacers. Journal of the American Chemical Society, 2019, 141, 18334-18340.	13.7	157
14	A Three-Dimensional Molecular Perovskite Ferroelectric: (3-Ammoniopyrrolidinium)RbBr₃. Journal of the American Chemical Society, 2017, 139, 3954-3957.	13.7	153
15	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
16	Competitive Halogen Bond in the Molecular Ferroelectric with Large Piezoelectric Response. Journal of the American Chemical Society, 2018, 140, 3975-3980.	13.7	151
17	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
18	Anomalously rotary polarization discovered in homochiral organic ferroelectrics. Nature Communications, 2016, 7, 13635.	12.8	129

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19	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
20	H/Fâ€Substitutionâ€Induced Homochirality for Designing Highâ€<i>T</i>_c Molecular Perovskite Ferroelectrics. Advanced Materials, 2019, 31, e1902163.	21.0	117
21	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
22	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
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	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
25	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
26	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
27	Discovery of an Antiperovskite Ferroelectric in [(CH₃)₃NH]₃(MnBr₃)(MnBr₄). Journal of the American Chemical Society, 2018, 140, 8110-8113.	13.7	79
28	Quinuclidinium salt ferroelectric thin-film with duodecuple-rotational polarization-directions. Nature Communications, 2017, 8, 14934.	12.8	75
29	Precise Molecular Design Toward Organicâ€"Inorganic Zinc Chloride ABX₃ Ferroelectrics. Journal of the American Chemical Society, 2020, 142, 6236-6243.	13.7	74
30	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	73
31	A Molecular Polycrystalline Ferroelectric with Recordâ€High Phase Transition Temperature. Advanced Materials, 2017, 29, 1700831.	21.0	72
32	Record Enhancement of Phase Transition Temperature Realized by H/F Substitution. Advanced Materials, 2020, 32, e2003530.	21.0	66
33	PFM (piezoresponse force microscopy)-aided design for molecular ferroelectrics. Chemical Society Reviews, 2021, 50, 8248-8278.	38.1	63
34	A Ferroelectric Iron(II) Spin Crossover Material. Angewandte Chemie - International Edition, 2017, 56, 14052-14056.	13.8	58
35	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
36	Rational Design of Ceramic-Like Molecular Ferroelectric by Quasi-Spherical Theory. Journal of the American Chemical Society, 2020, 142, 1995-2000.	13.7	57

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37	A Molecular Thermochromic Ferroelectric. Angewandte Chemie - International Edition, 2020, 59, 3495-3499.	13.8	57
38	A semiconducting molecular ferroelectric with a bandgap much lower than that of BiFeO3. NPG Asia Materials, 2017, 9, e342-e342.	7.9	54
39	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
40	Multichannel Control of Multiferroicity in Single-Component Homochiral Organic Crystals. Journal of the American Chemical Society, 2021, 143, 21685-21693.	13.7	52
41	Visualization of Room-Temperature Ferroelectricity and Polarization Rotation in the Thin Film of Quinuclidinium Perrhenate. Physical Review Letters, 2017, 119, 207602.	7.8	50
42	An Above-Room-Temperature Molecular Ferroelectric: [Cyclopentylammonium]₂CdBr₄. Inorganic Chemistry, 2020, 59, 829-836.	4.0	48
43	Tunable electroresistance and electro-optic effects of transparent molecular ferroelectrics. Science Advances, 2017, 3, e1701008.	10.3	44
44	The first high-temperature multiaxial ferroelectric hostâ€“guest inclusion compound. Chemical Communications, 2019, 55, 11571-11574.	4.1	40
45	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
46	Coexistence of magnetic and electric orderings in a divalent Cr²⁺-based multiaxial molecular ferroelectric. Chemical Science, 2021, 12, 9742-9747.	7.4	33
47	Unprecedented Ferroelectricity and Ferromagnetism in a Cr²⁺â€Based Twoâ€Dimensional Hybrid Perovskite. Angewandte Chemie - International Edition, 2022, 61, .	13.8	32
48	Organic Ferroelectric Vortexâ€“Antivortex Domain Structure. Journal of the American Chemical Society, 2020, 142, 21932-21937.	13.7	31
49	Three-Dimensional Lead Bromide Hybrid Ferroelectric Realized by Lattice Expansion. Journal of the American Chemical Society, 2020, 142, 19698-19704.	13.7	31
50	Ferroelectrochemistry. APL Materials, 2021, 9, .	5.1	29
51	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
52	Chiral Molecular Ferroelectrics with Polarized Optical Effect and Electroresistive Switching. ACS Nano, 2017, 11, 11739-11745.	14.6	26
53	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
54	Highly Efficient 1D/3D Ferroelectric Perovskite Solar Cell. Advanced Functional Materials, 2021, 31, 2100205.	14.9	24

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55	Multiaxial Ferroelectricity and Ferroelasticity in a Chiral Perovskite. Chemistry of Materials, 2022, 34, 3518-3524.	6.7	23
56	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
57	A Ferroelectric Iron(II) Spin Crossover Material. Angewandte Chemie, 2017, 129, 14240-14244.	2.0	17
58	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
59	Domain memory effect in the organic ferroics. Nature Communications, 2022, 13, 2379.	12.8	17
60	A Molecular Thermochromic Ferroelectric. Angewandte Chemie, 2020, 132, 3523-3527.	2.0	15
61	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
62	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
63	[(Histamine)(18-crown-6)₂][BF₄]₂ is a high-temperature piezoelectric. Chemical Communications, 2022, , .	4.1	7
64	Unprecedented Ferroelectricity and Ferromagnetism in a Cr²⁺â€Based Twoâ€Dimensional Hybrid Perovskite. Angewandte Chemie, 2022, 134, .	2.0	3