

Yuan-Yuan Tang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6400501/publications.pdf>

Version: 2024-02-01

64
papers

6,449
citations

71097

41
h-index

110368

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. <i>Science</i> , 2018, 361, 151-155.	12.6	570
2	Symmetry breaking in molecular ferroelectrics. <i>Chemical Society Reviews</i> , 2016, 45, 3811-3827.	38.1	499
3	A molecular perovskite solid solution with piezoelectricity stronger than lead zirconate titanate. <i>Science</i> , 2019, 363, 1206-1210.	12.6	401
4	The First 2D Homochiral Lead Iodide Perovskite Ferroelectrics: $[(R)\text{-}4\text{-chlorophenyl}]\text{ethylammonium}]_2\text{PbI}_4$. <i>Advanced Materials</i> , 2019, 31, 21.0 e1808088.		268
5	A Molecular Perovskite with Switchable Coordination Bonds for High-Temperature Multiaxial Ferroelectrics. <i>Journal of the American Chemical Society</i> , 2017, 139, 6369-6375.	13.7	254
6	Toward the Targeted Design of Molecular Ferroelectrics: Modifying Molecular Symmetries and Homochirality. <i>Accounts of Chemical Research</i> , 2019, 52, 1928-1938.	15.6	250
7	Precise Molecular Design of High- T_c 3D Organic-Inorganic Perovskite Ferroelectric: $[\text{MeHdabco}]\text{RbI}_3$ (MeHdabco = TjETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 502 Td (N -Methyl-1,4-dithiazepane)). <i>Journal of the American Chemical Society</i> , 2019, 141, 10897-10902.	13.7	190
8	A Room-Temperature Hybrid Lead Iodide Perovskite Ferroelectric. <i>Journal of the American Chemical Society</i> , 2018, 140, 12296-12302.	13.7	168
9	Two-Dimensional Layered Perovskite Ferroelectric with Giant Piezoelectric Voltage Coefficient. <i>Journal of the American Chemical Society</i> , 2020, 142, 1077-1082.	13.7	166
10	Large Piezoelectric Effect in a Lead-Free Molecular Ferroelectric Thin Film. <i>Journal of the American Chemical Society</i> , 2017, 139, 18071-18077.	13.7	160
11	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
12	Fluorine Substitution Induced High T_c of Enantiomeric Perovskite Ferroelectrics: $(R)\text{-}[(\text{Fluoropyrrolidinium})\text{MnCl}_3]$ and $(S)\text{-}[(\text{Fluoropyrrolidinium})\text{MnCl}_3]$. <i>Journal of the American Chemical Society</i> , 2019, 141, 4474-4479.	13.7	160
13	Two-Dimensional Organic-Inorganic Perovskite Ferroelectric Semiconductors with Fluorinated Aromatic Spacers. <i>Journal of the American Chemical Society</i> , 2019, 141, 18334-18340.	13.7	157
14	A Three-Dimensional Molecular Perovskite Ferroelectric: $(3\text{-Ammoniopyrrolidinium})\text{RbBr}_3$. <i>Journal of the American Chemical Society</i> , 2017, 139, 3954-3957.	13.7	153
15	Observation of Vortex Domains in a Two-Dimensional Lead Iodide Perovskite Ferroelectric. <i>Journal of the American Chemical Society</i> , 2020, 142, 4925-4931.	13.7	153
16	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
17	Organic enantiomeric high- T_c ferroelectrics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5878-5885.	7.1	137
18	Anomalously rotary polarization discovered in homochiral organic ferroelectrics. <i>Nature Communications</i> , 2016, 7, 13635.	12.8	129

#	ARTICLE	IF	CITATIONS
19	Molecular Ferroelectric with Most Equivalent Polarization Directions Induced by the Plastic Phase Transition. <i>Journal of the American Chemical Society</i> , 2016, 138, 13175-13178.	13.7	125
20	H/F Substitution-Induced Homochirality for Designing High- <i>T_c</i> Molecular Perovskite Ferroelectrics. <i>Advanced Materials</i> , 2019, 31, e1902163.	21.0	117
21	Ultrafast Polarization Switching in a Biaxial Molecular Ferroelectric Thin Film: [Hdabco]ClO ₄ . <i>Journal of the American Chemical Society</i> , 2016, 138, 15784-15789.	13.7	107
22	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
23	The Soft Molecular Polycrystalline Ferroelectric Realized by the Fluorination Effect. <i>Journal of the American Chemical Society</i> , 2020, 142, 12486-12492.	13.7	102
24	A Multiaxial Molecular Ferroelectric with Highest Curie Temperature and Fastest Polarization Switching. <i>Journal of the American Chemical Society</i> , 2017, 139, 13903-13908.	13.7	92
25	De Novo Discovery of [Hdabco]BF ₄ Molecular Ferroelectric Thin Film for Nonvolatile Low-Voltage Memories. <i>Journal of the American Chemical Society</i> , 2017, 139, 1319-1324.	13.7	88
26	The Narrowest Band Gap Ever Observed in Molecular Ferroelectrics: Hexa-1,6-diammonium Pentaiodobismuth(III). <i>Angewandte Chemie - International Edition</i> , 2018, 57, 526-530.	13.8	85
27	Discovery of an Antiperovskite Ferroelectric in [(CH ₃) ₃ NH] ₃ (MnBr ₃)(MnBr ₄). <i>Journal of the American Chemical Society</i> , 2018, 140, 8110-8113.	13.7	79
28	Quinuclidinium salt ferroelectric thin-film with duodecupole-rotational polarization-directions. <i>Nature Communications</i> , 2017, 8, 14934.	12.8	75
29	Precise Molecular Design Toward Organic-Inorganic Zinc Chloride ABX ₃ Ferroelectrics. <i>Journal of the American Chemical Society</i> , 2020, 142, 6236-6243.	13.7	74
30	Fluoridation Achieved Antiperovskite Molecular Ferroelectric in [(CH ₃) ₃ NH] ₂ (F-CH ₂ CH ₂)NH ₃ (CdCl ₃)(CdCl ₄). <i>Journal of the American Chemical Society</i> , 2019, 141, 4372-4378.	13.7	73
31	A Molecular Polycrystalline Ferroelectric with Record-High Phase Transition Temperature. <i>Advanced Materials</i> , 2017, 29, 1700831.	21.0	72
32	Record Enhancement of Phase Transition Temperature Realized by H/F Substitution. <i>Advanced Materials</i> , 2020, 32, e2003530.	21.0	66
33	PFM (piezoresponse force microscopy)-aided design for molecular ferroelectrics. <i>Chemical Society Reviews</i> , 2021, 50, 8248-8278.	38.1	63
34	A Ferroelectric Iron(II) Spin Crossover Material. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14052-14056.	13.8	58
35	Contactless Manipulation of Write-Read-Erase Data Storage in Diarylethene Ferroelectric Crystals. <i>Journal of the American Chemical Society</i> , 2022, 144, 8633-8640.	13.7	58
36	Rational Design of Ceramic-Like Molecular Ferroelectric by Quasi-Spherical Theory. <i>Journal of the American Chemical Society</i> , 2020, 142, 1995-2000.	13.7	57

#	ARTICLE	IF	CITATIONS
37	A Molecular Thermochromic Ferroelectric. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3495-3499.	13.8	57
38	A semiconducting molecular ferroelectric with a bandgap much lower than that of BiFeO ₃ . <i>NPG Asia Materials</i> , 2017, 9, e342-e342.	7.9	54
39	Optical Control of Polarization Switching in a Single-Component Organic Ferroelectric Crystal. <i>Journal of the American Chemical Society</i> , 2021, 143, 13816-13823.	13.7	53
40	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
41	Visualization of Room-Temperature Ferroelectricity and Polarization Rotation in the Thin Film of Quinuclidinium Perrhenate. <i>Physical Review Letters</i> , 2017, 119, 207602.	7.8	50
42	An Above-Room-Temperature Molecular Ferroelectric: [Cyclopentylammonium] ₂ CdBr ₄ . <i>Inorganic Chemistry</i> , 2020, 59, 829-836.	4.0	48
43	Tunable electroresistance and electro-optic effects of transparent molecular ferroelectrics. <i>Science Advances</i> , 2017, 3, e1701008.	10.3	44
44	The first high-temperature multiaxial ferroelectric host-guest inclusion compound. <i>Chemical Communications</i> , 2019, 55, 11571-11574.	4.1	40
45	Six-Fold Vertices in a Single-Component Organic Ferroelectric with Most Equivalent Polarization Directions. <i>Journal of the American Chemical Society</i> , 2020, 142, 13989-13995.	13.7	34
46	Coexistence of magnetic and electric orderings in a divalent Cr ²⁺ -based multiaxial molecular ferroelectric. <i>Chemical Science</i> , 2021, 12, 9742-9747.	7.4	33
47	Unprecedented Ferroelectricity and Ferromagnetism in a Cr ²⁺ -Based Two-Dimensional Hybrid Perovskite. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	32
48	Organic Ferroelectric Vortex-Antivortex Domain Structure. <i>Journal of the American Chemical Society</i> , 2020, 142, 21932-21937.	13.7	31
49	Three-Dimensional Lead Bromide Hybrid Ferroelectric Realized by Lattice Expansion. <i>Journal of the American Chemical Society</i> , 2020, 142, 19698-19704.	13.7	31
50	Ferroelectrochemistry. <i>APL Materials</i> , 2021, 9, .	5.1	29
51	Fluorination observed increase of 110 K is challenging the hydrogen-deuterium isotope effect. <i>Chemical Communications</i> , 2019, 55, 10007-10010.	4.1	27
52	Chiral Molecular Ferroelectrics with Polarized Optical Effect and Electroresistive Switching. <i>ACS Nano</i> , 2017, 11, 11739-11745.	14.6	26
53	Experimental Evidence for a Triboluminescent Antiperovskite Ferroelectric: Tris(trimethylammonium) catena-trichloromanganate(II) Tetrachloromanganate(II). <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11939-11942.	13.8	24
54	Highly Efficient 1D/3D Ferroelectric Perovskite Solar Cell. <i>Advanced Functional Materials</i> , 2021, 31, 2100205.	14.9	24

#	ARTICLE	IF	CITATIONS
55	Multiaxial Ferroelectricity and Ferroelasticity in a Chiral Perovskite. Chemistry of Materials, 2022, 34, 3518-3524.	6.7	23
56	A Three-dimensional M ₃ AB ₂ -Type Hybrid Organic-Inorganic Antiperovskite Ferroelectric: [C ₃ H ₇ FN] ₃ [SnCl ₆]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) catena- $\text{[Cl}_{1/4}\text{Mn}_{1/4}\text{ClO}_4\text{]}_2$ 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_c</i> dielectric 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> - <i>trans</i> isomers enabled <i>via</i> dielectric/ferroelectric signal feedback in a supramolecular Cu(1,10-phenanthroline) ₂ SeO ₄ ·A(diol) system. Journal of Materials Chemistry C, 2019, 7, 11022-11028.	5.5	9
63	[(Histamine)(18-crown-6) ₂][BF ₄] ₂ is a high-temperature piezoelectric. Chemical Communications, 2022, , .	4.1	7
64	Unprecedented Ferroelectricity and Ferromagnetism in a Cr ²⁺ -Based Two-dimensional Hybrid Perovskite. Angewandte Chemie, 2022, 134, .	2.0	3