

# Zhihua Sun

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3550283/publications.pdf>

Version: 2024-02-01

190  
papers

9,531  
citations

34016

52  
h-index

53109

85  
g-index

193  
all docs

193  
docs citations

193  
times ranked

5029  
citing authors

#	ARTICLE	IF	CITATIONS
1	Beryllium-free $\text{Li}_4\text{Sr}(\text{BO}_3)_2$ for deep-ultraviolet nonlinear optical applications. <i>Nature Communications</i> , 2014, 5, 4019.	5.8	384
2	Two-Dimensional Hybrid Perovskite-Type Ferroelectric for Highly Polarization-Sensitive Shortwave Photodetection. <i>Journal of the American Chemical Society</i> , 2019, 141, 2623-2629.	6.6	237
3	Tailored Engineering of an Unusual $(\text{C}_{40}\text{H}_{9}\text{NH}_3)_2(\text{CH}_3\text{NH}_3)_2\text{Pb}_3\text{Br}_{29}$ Two-Dimensional Multilayered Perovskite Ferroelectric for a High-Performance Photodetector. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12150-12154.	7.2	229
4	Non-Centrosymmetric $\text{RbNaMgP}_2\text{O}_7$ with Unprecedented Thermo-Induced Enhancement of Second Harmonic Generation. <i>Journal of the American Chemical Society</i> , 2018, 140, 1592-1595.	6.6	200
5	Rational chemical doping of metal halide perovskites. <i>Chemical Society Reviews</i> , 2019, 48, 517-539.	18.7	196
6	Bilayered Hybrid Perovskite Ferroelectric with Giant Two-Photon Absorption. <i>Journal of the American Chemical Society</i> , 2018, 140, 6806-6809.	6.6	185
7	A Photoferroelectric Perovskite-Type Organometallic Halide with Exceptional Anisotropy of Bulk Photovoltaic Effects. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6545-6550.	7.2	175
8	Bis(imidazolium) tartrate: A Hydrogen-Bonded Displacive-Type Molecular Ferroelectric Material. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3871-3876.	7.2	152
9	Exploring Lead-Free Hybrid Double Perovskite Crystals of $(\text{BA})_2\text{CsAgBiBr}_7$ with Large Mobility-Lifetime Product toward X-Ray Detection. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15757-15761.	7.2	151
10	White-light emission in a chiral one-dimensional organic-inorganic hybrid perovskite. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6033-6037.	2.7	147
11	Inch-Size Single Crystal of a Lead-Free Organic-Inorganic Hybrid Perovskite for High-Performance Photodetector. <i>Advanced Functional Materials</i> , 2018, 28, 1705467.	7.8	146
12	An Unprecedented Biaxial Trilayered Hybrid Perovskite Ferroelectric with Directionally Tunable Photovoltaic Effects. <i>Journal of the American Chemical Society</i> , 2019, 141, 7693-7697.	6.6	145
13	Chiral Lead-Free Hybrid Perovskites for Self-Powered Circularly Polarized Light Detection. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8415-8418.	7.2	144
14	Solid-State Reversible Quadratic Nonlinear Optical Molecular Switch with an Exceptionally Large Contrast. <i>Advanced Materials</i> , 2013, 25, 4159-4163.	11.1	136
15	Alloying <i>n</i> -Butylamine into $\text{CsPbBr}_3$ To Give a Two-Dimensional Bilayered Perovskite Ferroelectric Material. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8140-8143.	7.2	135
16	The First 2D Hybrid Perovskite Ferroelectric Showing Broadband White-Light Emission with High Color Rendering Index. <i>Advanced Functional Materials</i> , 2019, 29, 1805038.	7.8	134
17	Distinct Molecular Motions in a Switchable Chromophore Dielectric $4\text{-N,N-dimethylamino-4'-methylstilbazolium Trifluoromethanesulfonate}$ . <i>Advanced Functional Materials</i> , 2012, 22, 4855-4861.	7.2	133
18	Exploring a Lead-Free Semiconducting Hybrid Ferroelectric with a Zero-Dimensional Perovskite-Like Structure. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11854-11858.	7.2	128

#	ARTICLE	IF	CITATIONS
19	Plastic Transition to Switch Nonlinear Optical Properties Showing the Record High Contrast in a Single-Component Molecular Crystal. <i>Journal of the American Chemical Society</i> , 2015, 137, 15660-15663.	6.6	117
20	Room-Temperature Ferroelectric Material Composed of a Two-Dimensional Metal Halide Double Perovskite for X-Ray Detection. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13879-13884.	7.2	116
21	Construction of Interpenetrated Ruthenium Metal-Organic Frameworks as Stable Photocatalysts for CO <sub>2</sub> Reduction. <i>Inorganic Chemistry</i> , 2015, 54, 8375-8379.	1.9	115
22	Polarization-Driven Self-Powered Photodetection in a Single-Phase Biaxial Hybrid Perovskite Ferroelectric. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14504-14508.	7.2	114
23	Exploiting the Bulk Photovoltaic Effect in a 2D Trilayered Hybrid Ferroelectric for Highly Sensitive Polarized Light Detection. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3933-3937.	7.2	111
24	Hierarchical metal-organic framework nanoflowers for effective CO <sub>2</sub> transformation driven by visible light. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15764-15768.	5.2	110
25	2D Hybrid Perovskite Ferroelectric Enables Highly Sensitive X-Ray Detection with Low Driving Voltage. <i>Advanced Functional Materials</i> , 2020, 30, 1905529.	7.8	110
26	High-Temperature Antiferroelectric of Lead Iodide Hybrid Perovskites. <i>Journal of the American Chemical Society</i> , 2019, 141, 12470-12474.	6.6	108
27	Spacer Cation Alloying of a Homoconformational Carboxylate <i>trans</i> Isomer to Boost in-Plane Ferroelectricity in a 2D Hybrid Perovskite. <i>Journal of the American Chemical Society</i> , 2021, 143, 2130-2137.	6.6	106
28	Chirality-Dependent Second-Order Nonlinear Optical Effect in 1D Organic-Inorganic Hybrid Perovskite Bulk Single Crystal. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20021-20026.	7.2	100
29	Highly efficient white-light emission in a polar two-dimensional hybrid perovskite. <i>Chemical Communications</i> , 2018, 54, 4053-4056.	2.2	94
30	Trilayered Lead Chloride Perovskite Ferroelectric Affording Self-Powered Visible-Blind Ultraviolet Photodetection with Large Zero-Bias Photocurrent. <i>Journal of the American Chemical Society</i> , 2020, 142, 55-59.	6.6	93
31	Ferroelastic phase transition and switchable dielectric behavior associated with ordering of molecular motion in a perovskite-like architected supramolecular cocrystal. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2561.	2.7	88
32	Ferroelectricity-Driven Self-Powered Ultraviolet Photodetection with Strong Polarization Sensitivity in a Two-Dimensional Halide Hybrid Perovskite. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18933-18937.	7.2	88
33	Broadband white-light emission with a high color rendering index in a two-dimensional organic-inorganic hybrid perovskite. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1171-1175.	2.7	86
34	Tailoring of a visible-light-absorbing biaxial ferroelectric towards broadband self-driven photodetection. <i>Nature Communications</i> , 2021, 12, 284.	5.8	86
35	Bulk crystal growth and characterization of imidazolium l-tartrate (IMLT): a novel organic nonlinear optical material with a high laser-induced damage threshold. <i>CrystEngComm</i> , 2013, 15, 2157.	1.3	80
36	Realization of visible-NIR Dual-Modal Circularly Polarized Light Detection in Chiral Perovskite Bulk Crystals. <i>Journal of the American Chemical Society</i> , 2021, 143, 14077-14082.	6.6	80

#	ARTICLE	IF	CITATIONS
37	Dimensional Reduction of Cs <sub>2</sub> AgBiBr <sub>6</sub> : A 2D Hybrid Double Perovskite with Strong Polarization Sensitivity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3429-3433.	7.2	78
38	Discovery of an Above-Room-Temperature Antiferroelectric in Two-Dimensional Hybrid Perovskite. <i>Journal of the American Chemical Society</i> , 2019, 141, 3812-3816.	6.6	77
39	(C <sub>6</sub> H <sub>13</sub> N) <sub>2</sub> Bi <sub>5</sub> : A One-Dimensional Lead-Free Perovskite-Derivative Photoconductive Light Absorber. <i>Inorganic Chemistry</i> , 2018, 57, 4239-4243.	1.9	76
40	A Lead-Free Hybrid Iodide with Quantitative Response to X-ray Radiation. <i>Chemistry of Materials</i> , 2019, 31, 5927-5932.	3.2	75
41	A Potential Sn-Based Hybrid Perovskite Ferroelectric Semiconductor. <i>Journal of the American Chemical Society</i> , 2020, 142, 1159-1163.	6.6	72
42	Bandgap Narrowing of Lead-Free Perovskite-Type Hybrids for Visible-Light-Absorbing Ferroelectric Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2012-2018.	2.1	71
43	Tailored Engineering of an Unusual (C <sub>4</sub> H <sub>9</sub> NH <sub>3</sub> ) <sub>2</sub> (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> Pb <sub>3</sub> Br <sub>7</sub> Two-Dimensional Multilayered Perovskite Ferroelectric for a High-Performance Photodetector. <i>Angewandte Chemie</i> , 2017, 129, 12318-12322.	1.6	71
44	A combination of multiple chromophores enhances second-harmonic generation in a nonpolar noncentrosymmetric oxide: CdTeMoO <sub>6</sub> . <i>Journal of Materials Chemistry C</i> , 2013, 1, 2906.	2.7	67
45	Exploring a Polar Two-Dimensional Multilayered Hybrid Perovskite of (C <sub>5</sub> H <sub>11</sub> NH <sub>3</sub> ) <sub>2</sub> (CH <sub>3</sub> NH <sub>3</sub> )Pb <sub>2</sub> I <sub>7</sub> for Ultrafast-Responding Photodetection. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800060.	1.6	65
46	<i>In Situ</i> Epitaxial Growth of Centimeter-Sized Lead-Free (BA) <sub>2</sub> CsAgBiBr <sub>7</sub> /Cs <sub>2</sub> AgBiBr <sub>6</sub> Heterocrystals for Self-Driven X-ray Detection. <i>Journal of the American Chemical Society</i> , 2021, 143, 20802-20810.	6.6	65
47	A supra-molecular switchable dielectric material with non-linear optical properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2865-2870.	2.7	64
48	N-Isopropylbenzylammonium tetrafluoroborate: an organic dielectric relaxor with a tunable transition between high and low dielectric states. <i>Journal of Materials Chemistry C</i> , 2014, 2, 567-572.	2.7	61
49	Realization of "warm-white light" via halide substitution in polar two-dimensional hybrid perovskites (2meptH <sub>2</sub> )PbCl <sub>x</sub> Br <sub>4-x</sub> . <i>Journal of Materials Chemistry C</i> , 2018, 6, 12267-12272.	2.7	60
50	Halide Double Perovskite Ferroelectrics. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9305-9308.	7.2	60
51	A sequentially switchable molecular dielectric material tuned by the stepwise ordering in diisopropylammonium trifluoromethanesulfonate. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2341-2345.	2.7	56
52	Second-Order Nonlinear Optical Switch of a New Hydrogen-Bonded Supramolecular Crystal with a High Laser-Induced Damage Threshold. <i>Advanced Optical Materials</i> , 2014, 2, 1199-1205.	3.6	55
53	Strong Nonlinear-Optical Response in the Pyrophosphate CsLiCdP <sub>2</sub> O <sub>7</sub> with a Short Cutoff Edge. <i>Inorganic Chemistry</i> , 2016, 55, 11626-11629.	1.9	55
54	A semi-conductive organic-inorganic hybrid emits pure white light with an ultrahigh color rendering index. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4731-4735.	2.7	55

#	ARTICLE	IF	CITATIONS
55	3D to 2D Dimensional Reduction for Exploiting a Multilayered Perovskite Ferroelectric toward Polarized Light Detection in the Solar-Blind Ultraviolet Region. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21693-21697.	7.2	55
56	Triiodide-Induced Band-Edge Reconstruction of a Lead-Free Perovskite-Derivative Hybrid for Strong Light Absorption. <i>Chemistry of Materials</i> , 2018, 30, 4081-4088.	3.2	52
57	Giant and Broadband Multiphoton Absorption Nonlinearities of a 2D Organometallic Perovskite Ferroelectric. <i>Advanced Materials</i> , 2020, 32, e2002972.	11.1	51
58	(C <sub>3</sub> H <sub>9</sub> N) <sub>4</sub> AgBiI <sub>8</sub> : a direct-bandgap layered double perovskite based on a short-chain spacer cation for light absorption. <i>Chemical Communications</i> , 2020, 56, 3206-3209.	2.2	51
59	Tailored Synthesis of an Unprecedented Pb-Mn Heterometallic Halide Hybrid with Enhanced Emission. <i>Journal of the American Chemical Society</i> , 2019, 141, 12197-12201.	6.6	50
60	High-Performance Switching of Bulk Quadratic Nonlinear Optical Properties with Large Contrast in Polymer Films Based on Organic Hydrogen-Bonded Ferroelectrics. <i>Chemistry of Materials</i> , 2015, 27, 4493-4498.	3.2	49
61	Optical, electrical and photoelectric properties of layered-perovskite ferroelectric Bi <sub>2</sub> WO <sub>6</sub> crystals. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7563-7570.	2.7	48
62	[C <sub>6</sub> H <sub>14</sub> N]PbI <sub>3</sub> : a one-dimensional perovskite-like order-disorder phase transition material with semiconducting and switchable dielectric attributes. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 897-902.	3.0	48
63	Highly Anisotropic Dion-Jacobson Hybrid Perovskite by Tailoring Diamine into CsPbBr <sub>3</sub> for Polarization-Sensitive Photodetection. <i>Small</i> , 2020, 16, e1907020.	5.2	47
64	[(CH <sub>3</sub> ) <sub>3</sub> NH] <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> : A Polar Lead-Free Hybrid Perovskite-Like Material as a Potential Semiconducting Absorber. <i>Chemistry - A European Journal</i> , 2017, 23, 17304-17310.	1.7	46
65	Inorganic-organic hybrid switchable dielectric materials with the coexistence of magnetic anomalies induced by reversible high-temperature phase transition. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8509-8515.	2.7	46
66	Acquiring High-T <sub>C</sub> Layered Metal Halide Ferroelectrics via Cage-Confined Ethylamine Rotators. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2839-2843.	7.2	46
67	High-Curie Temperature Multilayered Hybrid Double Perovskite Photoferroelectrics Induced by Aromatic Cation Alloying. <i>Journal of the American Chemical Society</i> , 2021, 143, 15900-15906.	6.6	45
68	Engineering of Acentric Stilbazolium Salts with Large Second-Order Optical Nonlinearity and Enhanced Environmental Stability. <i>Crystal Growth and Design</i> , 2012, 12, 6181-6187.	1.4	44
69	Reversible phase transition driven by order-disorder transformations of metal-halide moieties in [(C <sub>6</sub> H <sub>14</sub> N) <sub>2</sub> ] <sub>2</sub> ·CuBr <sub>4</sub> . <i>Journal of Materials Chemistry C</i> , 2016, 4, 7537-7540.	2.7	44
70	[C <sub>5</sub> H <sub>12</sub> N]CdCl <sub>3</sub> : an ABX <sub>3</sub> perovskite-type semiconducting switchable dielectric phase transition material. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1485-1492.	3.0	44
71	A Multiaxial Layered Halide Double Perovskite Ferroelectric with Multiple Ferroic Orders. <i>Chemistry of Materials</i> , 2020, 32, 8965-8970.	3.2	44
72	Giant room temperature electrocaloric effect in a layered hybrid perovskite ferroelectric: [(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> NH <sub>3</sub> ] <sub>2</sub> PbCl <sub>4</sub> . <i>Nature Communications</i> , 2021, 12, 5502.	5.8	44

#	ARTICLE	IF	CITATIONS
73	An organic–inorganic hybrid co-crystal complex as a high-performance solid-state nonlinear optical switch. <i>Journal of Materials Chemistry C</i> , 2016, 4, 266-271.	2.7	43
74	Highly Sensitive and Ultrafast Responding Array Photodetector Based on a Newly Tailored 2D Lead Iodide Perovskite Crystal. <i>Advanced Optical Materials</i> , 2019, 7, 1900308.	3.6	42
75	Monolayer–to–Multilayer Dimensionality Reconstruction in a Hybrid Perovskite for Exploring the Bulk Photovoltaic Effect Enables Passive X-ray Detection. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20970-20976.	7.2	42
76	Centimeter-Sized Single Crystal of a One-Dimensional Lead-Free Mixed-Cation Perovskite Ferroelectric for Highly Polarization Sensitive Photodetection. <i>Journal of the American Chemical Society</i> , 2021, 143, 16758-16767.	6.6	42
77	ABX <sub>3</sub> -Type Organic–Inorganic Hybrid Phase Transition Material: 1-Pentyl-3-methylimidazolium Tribromoplumbate. <i>Inorganic Chemistry</i> , 2015, 54, 7136-7138.	1.9	41
78	Great Amplification of Circular Polarization Sensitivity via Heterostructure Engineering of a Chiral Two-Dimensional Hybrid Perovskite Crystal with a Three-Dimensional MAPbI <sub>3</sub> Crystal. <i>ACS Central Science</i> , 2021, 7, 1261-1268.	5.3	41
79	Self-Powered Visible–Infrared Polarization Photodetection Driven by Ferroelectric Photovoltaic Effect in a Dion–Jacobson Hybrid Perovskite. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	41
80	Bromine-Substitution-Induced High-T <sub>c</sub> Two-Dimensional Bilayered Perovskite Photoferroelectric. <i>Journal of the American Chemical Society</i> , 2021, 143, 7593-7598.	6.6	40
81	ZnTeMoO <sub>6</sub> : a strong second-harmonic generation material originating from three types of asymmetric building units. <i>RSC Advances</i> , 2013, 3, 14000.	1.7	39
82	A Photoferroelectric Perovskite-Type Organometallic Halide with Exceptional Anisotropy of Bulk Photovoltaic Effects. <i>Angewandte Chemie</i> , 2016, 128, 6655-6660.	1.6	38
83	[C <sub>5</sub> H <sub>12</sub> N]SnCl <sub>3</sub> : A Tin Halide Organic–Inorganic Hybrid as an Above-Room-Temperature Solid-State Nonlinear Optical Switch. <i>Chemistry - A European Journal</i> , 2019, 25, 2610-2615.	1.7	38
84	Recent Advances and Optoelectronic Applications of Lead-Free Halide Double Perovskites. <i>Chemistry - A European Journal</i> , 2020, 26, 16975-16984.	1.7	38
85	Switchable dielectric behaviour associated with above room-temperature phase transition in N-isopropylbenzylammonium dichloroacetate (N-IPBADC). <i>Journal of Materials Chemistry C</i> , 2014, 2, 6134-6139.	2.7	37
86	A lead-free perovskite-like hybrid with above-room-temperature switching of quadratic nonlinear optical properties. <i>Chemical Communications</i> , 2018, 54, 5614-5617.	2.2	37
87	Soft Perovskite-Type Antiferroelectric with Giant Electrocaloric Strength near Room Temperature. <i>Journal of the American Chemical Society</i> , 2020, 142, 20744-20751.	6.6	37
88	A one-dimensional dual emissive hybrid perovskite with flexibly tunable white-light emission. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6710-6714.	2.7	36
89	Lead-Free Hybrid Material with an Exceptional Dielectric Phase Transition Induced by a Chair-to-Boat Conformation Change of the Organic Cation. <i>Inorganic Chemistry</i> , 2017, 56, 13078-13085.	1.9	35
90	Intrinsic Strong Linear Dichroism of Multilayered 2D Hybrid Perovskite Crystals toward Highly Polarized-Sensitive Photodetection. <i>Advanced Optical Materials</i> , 2019, 7, 1901049.	3.6	35

#	ARTICLE	IF	CITATIONS
91	Solution-Grown Large-Sized Single-Crystalline 2D/3D Perovskite Heterostructure for Self-Powered Photodetection. <i>Advanced Optical Materials</i> , 2020, 8, 2000311.	3.6	35
92	Structural Phase Transition and Switchable Dielectric Properties of a Unique Two-Dimensional Organic-Inorganic Hybrid Perovskite Compound [C <sub>6</sub> H <sub>11</sub> NH <sub>2</sub> CH <sub>3</sub> ] <sub>4</sub> Pb <sub>3</sub> I <sub>10</sub> . <i>Crystal Growth and Design</i> , 2018, 18, 7316-7322.	1.4	34
93	Dielectric phase transition triggered by the order-disorder transformation of cyclopropylamine in a layered organic-inorganic halide perovskite. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10327-10331.	2.7	34
94	Above-room-temperature switching of quadratic nonlinear optical properties in a Bi-halide organic-inorganic hybrid. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9532-9536.	2.7	34
95	The First Improper Ferroelectric of 2D Multilayered Hybrid Perovskite Enabling Strong Tunable Polarization-Directed Second Harmonic Generation Effect. <i>Advanced Functional Materials</i> , 2021, 31, 2103012.	7.8	34
96	Synthesis, growth and characterization of a third-order nonlinear optical crystal based on the borate ester with sodium supporting its structural framework. <i>New Journal of Chemistry</i> , 2011, 35, 2804.	1.4	33
97	A Metal-Free Molecular Antiferroelectric Material Showing High Phase Transition Temperatures and Large Electrocaloric Effects. <i>Journal of the American Chemical Society</i> , 2021, 143, 14379-14385.	6.6	33
98	Tailoring Interlayered Spacers of Two-Dimensional Cesium-Based Perovskite Ferroelectrics toward Exceptional Ferro-Pyro-Phototronic Effects. <i>Small</i> , 2022, 18, e2106888.	5.2	32
99	Room-Temperature Ferroelectric Material Composed of a Two-Dimensional Metal Halide Double Perovskite for X-ray Detection. <i>Angewandte Chemie</i> , 2020, 132, 13983-13988.	1.6	31
100	Minute-Scale Rapid Crystallization of a Highly Dichroic 2D Hybrid Perovskite Crystal toward Efficient Polarization-Sensitive Photodetector. <i>Advanced Optical Materials</i> , 2020, 8, 2000149.	3.6	31
101	Heterogeneous Integration of Chiral Lead-Chloride Perovskite Crystals with Si Wafer for Boosted Circularly Polarized Light Detection in Solar-Blind Ultraviolet Region. <i>Small</i> , 2021, 17, e2102884.	5.2	31
102	Anisotropy in a 2D Perovskite Ferroelectric Drives Self-Powered Polarization-Sensitive Photoresponse for Ultraviolet Solar-Blind Polarized-Light Detection. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	31
103	Unusual Long-Range Ordering Incommensurate Structural Modulations in an Organic Molecular Ferroelectric. <i>Journal of the American Chemical Society</i> , 2017, 139, 15900-15906.	6.6	30
104	Highly Oriented Thin Films of 2D Ruddlesden-Popper Hybrid Perovskite toward Superfast Response Photodetectors. <i>Small</i> , 2019, 15, e1901194.	5.2	29
105	Rational design of high-quality 2D/3D perovskite heterostructure crystals for record-performance polarization-sensitive photodetection. <i>National Science Review</i> , 2021, 8, nwab044.	4.6	29
106	Thermochromism to tune the optical bandgap of a lead-free perovskite-type hybrid semiconductor for efficiently enhancing photocurrent generation. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9967-9971.	2.7	28
107	Polarization-Driven Self-Powered Photodetection in a Single-Phase Biaxial Hybrid Perovskite Ferroelectric. <i>Angewandte Chemie</i> , 2019, 131, 14646-14650.	1.6	28
108	( <sup>3</sup> -Methoxy propyl amine) <sub>2</sub> PbBr <sub>4</sub> : a novel two-dimensional halide hybrid perovskite with efficient bluish white-light emission. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2119-2124.	3.0	28

#	ARTICLE	IF	CITATIONS
109	Highly Stereoselective Trichloromethylation of <i>N</i> -( <i>tert</i> -Butylsulfinyl)aldimines: Facile Synthesis of Chiral $\alpha$ -Trichloromethylamines. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 676-679.	1.2	27
110	Tailoring the Distinctive Chiral Polar Perovskites with Alternating Cations in the Interlayer Space for Self-Driven Circularly Polarized Light Detection. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	27
111	Hydrogen-Bonded Displacive-Type Ferroelastic Phase Transition in a New Entangled Supramolecular Compound. <i>Crystal Growth and Design</i> , 2015, 15, 457-464.	1.4	26
112	Broad-Band-Emissive Organic-Inorganic Hybrid Semiconducting Nanowires Based on an ABX <sub>3</sub> -Type Chain Compound. <i>Inorganic Chemistry</i> , 2017, 56, 8776-8781.	1.9	26
113	Thermolysis-Induced Two- or Multicomponent Tandem Reactions Involving Isocyanides and Sulfenic-Acid-Generating Sulfoxides: Access to Diverse Sulfur-Containing Functional Scaffolds. <i>Organic Letters</i> , 2018, 20, 522-525.	2.4	26
114	Alloying <i>n</i> -Butylamine into CsPbBr <sub>3</sub> To Give a Two-Dimensional Bilayered Perovskite Ferroelectric Material. <i>Angewandte Chemie</i> , 2018, 130, 8272-8275.	1.6	26
115	A Molecular Ferroelectric Showing Room-Temperature Record-Fast Switching of Spontaneous Polarization. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9833-9837.	7.2	26
116	Exploring Lead-Free Hybrid Double Perovskite Crystals of (BA) <sub>2</sub> CsAgBiBr <sub>7</sub> with Large Mobility-Lifetime Product toward X-Ray Detection. <i>Angewandte Chemie</i> , 2019, 131, 15904-15908.	1.6	25
117	A lead-free I-based hybrid double perovskite (I-C <sub>4</sub> H <sub>8</sub> NH <sub>3</sub> ) <sub>4</sub> AgBiI <sub>8</sub> for X-ray detection. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13157-13161.	2.7	25
118	Phase Transition Originating from Order-Disorder Transformations of Carboxy Oxygen Atoms Coupled with Dynamic Proton Motions in [PhCH <sub>2</sub> NH(CH <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub> C <sub>2</sub> O <sub>4</sub> ·...H <sub>2</sub> C <sub>2</sub> O <sub>4</sub> . <i>Chemistry - an Asian Journal</i> , 2014, 9, 1771-1776.	1.7	23
119	A lead-free semiconducting hybrid with ultra-high color rendering index white-light emission. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2801-2805.	2.7	23
120	Switchable behaviors of quadratic nonlinear optical properties originating from bi-step phase transitions in a molecule-based crystal. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4150-4155.	2.7	23
121	Tunable optical absorption in lead-free perovskite-like hybrids by iodide management. <i>Chemical Communications</i> , 2019, 55, 14174-14177.	2.2	23
122	High performance self-powered photodetection with a low detection limit based on a two-dimensional organometallic perovskite ferroelectric. <i>Journal of Materials Chemistry C</i> , 2021, 9, 881-887.	2.7	23
123	Chiral Lead-Free Hybrid Perovskites for Self-Powered Circularly Polarized Light Detection. <i>Angewandte Chemie</i> , 2021, 133, 8496-8499.	1.6	23
124	Polar Photovoltaic Effect in Chiral Alternating Cations Intercalation-Type Perovskites Driving Self-Powered Ultraviolet Circularly Polarized Light Detection. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	23
125	Dynamic Entangled Framework Based on an Iridium-Organic Unit Showing Reversible Luminescence Turn-On Sensing. <i>Inorganic Chemistry</i> , 2015, 54, 8872-8874.	1.9	22
126	Unusual ferroelectric-dependent birefringence in 2D trilayered perovskite-type ferroelectric exploited by dimensional tailoring. <i>Matter</i> , 2022, 5, 194-205.	5.0	22

#	ARTICLE	IF	CITATIONS
127	Cooperative Enhancement of Second Harmonic Generation in an Organic-Inorganic Hybrid Antimony Halide. <i>Crystal Growth and Design</i> , 2022, 22, 3875-3881.	1.4	22
128	Exploring a Lead-free Semiconducting Hybrid Ferroelectric with a Zero-Dimensional Perovskite-like Structure. <i>Angewandte Chemie</i> , 2016, 128, 12033-12037.	1.6	20
129	Bistable H <sup>+</sup> -N hydrogen bonds for reversibly modulating the dynamic motion in an organic co-crystal. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10868-10872.	1.3	20
130	(2-Methylpiperidine)PbI <sub>3</sub> : an ABX <sub>3</sub> -type organic-inorganic hybrid chain compound and its semiconducting nanowires with photoconductive properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11466-11471.	2.7	20
131	[C <sub>6</sub> H <sub>14</sub> N]PbBr <sub>3</sub> : An ABX <sub>3</sub> -Type Semiconducting Perovskite Hybrid with Above-Room-Temperature Phase Transition. <i>Chemistry - an Asian Journal</i> , 2018, 13, 982-988.	1.7	20
132	A reduced-dimensional polar hybrid perovskite for self-powered broad-spectrum photodetection. <i>Chemical Science</i> , 2021, 12, 3050-3054.	3.7	20
133	Exceptional dielectric performance induced by the stepwise reversible phase transitions of an organic crystal: betainium chlorodifluoroacetate. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10337-10342.	2.7	19
134	In Situ Activation of Disulfides for Multicomponent Reactions with Isocyanides and a Broad Range of Nucleophiles. <i>Organic Letters</i> , 2019, 21, 1484-1487.	2.4	19
135	Ferroelectricity-Driven Self-Powered Ultraviolet Photodetection with Strong Polarization Sensitivity in a Two-Dimensional Halide Hybrid Perovskite. <i>Angewandte Chemie</i> , 2020, 132, 19095-19099.	1.6	19
136	Exploring a Fatigue-Free Layered Hybrid Perovskite Ferroelectric for Photovoltaic Non-Volatile Memories. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10598-10602.	7.2	19
137	Dibutylammonium Hydrogen Oxalate: An Above-Room-Temperature Order-Disorder Phase Transition Molecular Material. <i>Crystal Growth and Design</i> , 2015, 15, 5263-5268.	1.4	18
138	Towards a Spectrally Customized Photoresponse from an Organic-Inorganic Hybrid Ferroelectric. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16764-16767.	7.2	18
139	(C <sub>6</sub> H <sub>13</sub> NH <sub>3</sub> ) <sub>2</sub> (NH <sub>2</sub> CHNH <sub>2</sub> )Pb <sub>2</sub> I <sub>7</sub> : A Two-dimensional Bilayer Inorganic-Organic Hybrid Perovskite Showing Photodetecting Behavior. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1530-1534.	1.7	18
140	Dimensional Reduction of Cs <sub>2</sub> AgBiBr <sub>6</sub> : A 2D Hybrid Double Perovskite with Strong Polarization Sensitivity. <i>Angewandte Chemie</i> , 2020, 132, 3457-3461.	1.6	18
141	Strong enhancement of second harmonic generation in nonlinear optical crystals: 2-amino-3-nitropyridinium halides (Cl, Br, I). <i>Journal of Materials Chemistry C</i> , 2014, 2, 8723-8728.	2.7	17
142	Mixing Halogens To Assemble an All-Inorganic Layered Perovskite with Warm White Light Emission. <i>Chemistry - A European Journal</i> , 2018, 24, 9243-9246.	1.7	17
143	(1,4-Butyldiammonium)CdBr <sub>4</sub> : a layered organic-inorganic hybrid perovskite with a visible-blind ultraviolet photoelectric response. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2450-2455.	3.0	17
144	Two Heteromorphic Crystals of Antimony-Based Hybrids Showing Tunable Optical Band Gaps and Distinct Photoelectric Responses. <i>Inorganic Chemistry</i> , 2019, 58, 6544-6549.	1.9	17

#	ARTICLE	IF	CITATIONS
145	Dibenzylammonium trichloroacetate: an above-room-temperature order–disorder switchable dielectric material. <i>CrystEngComm</i> , 2016, 18, 3606-3611.	1.3	16
146	Exploiting the Bulk Photovoltaic Effect in a 2D Trilayered Hybrid Ferroelectric for Highly Sensitive Polarized Light Detection. <i>Angewandte Chemie</i> , 2020, 132, 3961-3965.	1.6	16
147	3D–to–2D Dimensional Reduction for Exploiting a Multilayered Perovskite Ferroelectric toward Polarized Light Detection in the Solar–Blind Ultraviolet Region. <i>Angewandte Chemie</i> , 2020, 132, 21877-21881.	1.6	16
148	A chiral lead-free photoactive hybrid material with a narrow bandgap. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2770-2777.	3.0	16
149	Multilayered 2D Cesium–Based Hybrid Perovskite with Strong Polarization Sensitivity: Dimensional Reduction of CsPbBr <sub>3</sub> . <i>Chemistry - A European Journal</i> , 2020, 26, 3494-3498.	1.7	16
150	Order–disorder phase transition coupled with torsion in tri-n-butylammonium trichloroacetate (TBAT). <i>Journal of Materials Chemistry C</i> , 2015, 3, 6053-6057.	2.7	15
151	A High–Temperature Order–Disorder Phase Transition Coupled With Conformational Change in the Hybrid Material [C <sub>6</sub> H <sub>13</sub> NH] <sub>2</sub> ·ZnBr <sub>4</sub> . <i>Chemistry - an Asian Journal</i> , 2016, 11, 2876-2881.	1.7	15
152	Hydrogen-Bonded Switchable Dielectric Material Showing the Bistability of Second-Order Nonlinear Optical Properties. <i>Crystal Growth and Design</i> , 2017, 17, 3250-3256.	1.4	15
153	Incorporating an Aromatic Cationic Spacer to Assemble 2D Polar Perovskite Crystals toward Self-Powered Detection of Quite Weak Polarized Light. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6017-6023.	2.1	15
154	Polarization Switching Induced by Slowing the Dynamic Swinglike Motion in a Flexible Organic Dielectric. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27571-27576.	1.5	14
155	Successive near-room-temperature dielectric phase transitions in a lead-free hybrid perovskite-like compound. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 233-237.	3.0	14
156	Unprecedented Self-Powered Visible–Infrared Dual-Modal Photodetection Induced by a Bulk Photovoltaic Effect in a Polar Perovskite. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 5608-5614.	4.0	14
157	A Molecular Ferroelectric Showing Room–Temperature Record–Fast Switching of Spontaneous Polarization. <i>Angewandte Chemie</i> , 2018, 130, 9981-9985.	1.6	13
158	Growth, thermal and spectral properties, and laser performance of Tm <sup>3+</sup> :CNGS crystal. <i>CrystEngComm</i> , 2019, 21, 866-875.	1.3	13
159	2D Hybrid perovskite incorporating cage-confined secondary ammonium cations toward effective photodetection. <i>Chemical Communications</i> , 2022, 58, 561-564.	2.2	13
160	Structural phase transition and dielectric anisotropy properties of a lead-free organic–inorganic hybrid. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1761-1766.	3.0	12
161	Cage-incorporation of secondary amine in Ruddlesden–Popper 2D hybrid perovskite with strong photoconductivity and polarization response. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17349-17356.	2.7	12
162	Realization of In–Plane Polarized Light Detection Based on Bulk Photovoltaic Effect in A Polar Van Der Waals Crystal. <i>Small</i> , 2022, 18, e2200011.	5.2	12

#	ARTICLE	IF	CITATIONS
163	N-Methylpyrrolidinium hydrogen tartrate (NMPHT): an above-room-temperature order-disorder molecular switchable dielectric material. RSC Advances, 2017, 7, 24368-24373.	1.7	11
164	A new antimony-based organic-inorganic hybrid absorber with photoconductive response. Inorganic Chemistry Frontiers, 2018, 5, 3028-3032.	3.0	11
165	Exploring a lead-free organic-inorganic semiconducting hybrid with above-room-temperature dielectric phase transition. RSC Advances, 2020, 10, 17492-17496.	1.7	11
166	A Quasi-Two-Dimensional Trilayered CsPbBr <sub>3</sub> -based Dion-Jacobson Hybrid Perovskite toward High-Performance Photodetection. Chemistry - A European Journal, 2022, 28, .	1.7	11
167	Self-Assembly of 2D Hybrid Double Perovskites on 3D Cs <sub>2</sub> AgBiBr <sub>6</sub> Crystals towards Ultrasensitive Detection of Weak Polarized Light. Angewandte Chemie - International Edition, 2022, 61, .	7.2	11
168	Crystal structure, spectroscopic studies and non-linear optical properties of 2-amino-3-nitropyridinium trichloroacetate. Crystal Research and Technology, 2015, 50, 866-872.	0.6	10
169	Near-room-temperature tunable dielectric response induced by dual phase transitions in a lead-free hybrid: (C <sub>3</sub> H <sub>8</sub> N) <sub>2</sub> SbBr <sub>5</sub> . CrystEngComm, 2019, 21, 3740-3744.	1.3	10
170	Reversible phase transition triggered by order-disorder transformations and distortions in dipropylammonium (+)-10-camphorsulfonate. CrystEngComm, 2016, 18, 2852-2856.	1.3	9
171	Exploiting two-dimensional hybrid perovskites incorporating secondary amines for high-performance array photodetection. Journal of Materials Chemistry C, 2020, 8, 12848-12853.	2.7	9
172	Exploring a layered iodide perovskite crystal with centimetered dimension for extended spectral polarization-sensitive photodetection. Journal of Materials Chemistry C, 2021, 9, 9499-9504.	2.7	9
173	Monolayer-to-Multilayer Dimensionality Reconstruction in a Hybrid Perovskite for Exploring the Bulk Photovoltaic Effect Enables Passive X-ray Detection. Angewandte Chemie, 2021, 133, 21138-21144.	1.6	9
174	A bilayered two-dimensional hybrid perovskite with a cage-templated secondary cation for high efficiency photodetection. Inorganic Chemistry Frontiers, 2022, 9, 637-644.	3.0	9
175	Ferroelectric perovskite-type films with robust in-plane polarization toward efficient room-temperature chemiresistive sensing. Fundamental Research, 2023, 3, 362-368.	1.6	9
176	Acquiring High-T C Layered Metal Halide Ferroelectrics via Cage-Confined Ethylamine Rotators. Angewandte Chemie, 2021, 133, 2875-2879.	1.6	8
177	Chirality-Dependent Second-Order Nonlinear Optical Effect in 1D Organic-Inorganic Hybrid Perovskite Bulk Single Crystal. Angewandte Chemie, 2021, 133, 20174-20179.	1.6	8
178	Polarization-sensitive photodetection in a two-dimensional interlayer-multiple-cation hybrid perovskite bulk single crystal. Journal of Materials Chemistry C, 2022, 10, 5882-5886.	2.7	8
179	Temperature-triggered order-disorder phase transition in molecular-ionic material N-butyl-diethanolammonium picrate monohydrate. RSC Advances, 2016, 6, 69546-69550.	1.7	7
180	Synthesis of 1,2-disubstituted benzimidazoles using an aza-Wittig-equivalent process. RSC Advances, 2017, 7, 44421-44425.	1.7	7

#	ARTICLE	IF	CITATIONS
181	Two-Dimensional Guanidine-Based Hybrid Perovskites with Strong Dichroism for Multiwavelength Polarization-Sensitive Detection. <i>Chemistry - A European Journal</i> , 2021, 27, 9267-9271.	1.7	7
182	Incorporating Guanidinium as Perovskite Cation of Two-Dimensional Metal Halide for Crystal Array Photodetectors. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1925-1929.	1.7	7
183	Anisotropy in a 2D Perovskite Ferroelectric Drives Self-Powered Polarization-Sensitive Photoresponse for Ultraviolet Solar-Blind Polarized-Light Detection. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	7
184	Order-Disorder Phase Transition, Anisotropic and Switchable Dielectric Constants Induced by Freeze of the Wheel-Like Motion in a Hexafluorosilicate-Based Crystal. <i>ChemistrySelect</i> , 2016, 1, 5310-5315.	0.7	5
185	A Lead-Free Organic-Inorganic Halide Perovskite Absorber with Photoconductive Response. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3350-3355.	1.7	5
186	Highly Fluorescent and Stable Ruthenium Unit/Layered Double Hydroxide Composite with Sensitive Detection of $\text{Cr}^{2+}$ . <i>ChemistrySelect</i> , 2017, 2, 6218-6222.	0.7	3
187	Towards a Spectrally Customized Photoresponse from an Organic-Inorganic Hybrid Ferroelectric. <i>Angewandte Chemie</i> , 2018, 130, 17006-17009.	1.6	3
188	Frontispiece: Recent Advances and Optoelectronic Applications of Lead-Free Halide Double Perovskites. <i>Chemistry - A European Journal</i> , 2020, 26, .	1.7	1
189	Self-Assembly of 2D Hybrid Double Perovskites on 3D $\text{Cs}_2\text{AgBiBr}_6$ Crystals towards Ultrasensitive Detection of Weak Polarized Light. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	1
190	Exploring a Fatigue-Free Layered Hybrid Perovskite Ferroelectric for Photovoltaic Non-Volatile Memories. <i>Angewandte Chemie</i> , 2021, 133, 10692-10696.	1.6	0