Jun-Hua Luo

List of Publications by Citations

209 papers	7,847 citations	51 h-index	78 g-index
223 ext. papers	9,975 ext. citations	9.2 avg, IF	6.44 L-index

#	Paper	IF	Citations
209	Beryllium-free Li4Sr(BO3)2 for deep-ultraviolet nonlinear optical applications. *Nature Communications*, **2014**, 5, 4019	17.4	310
208	Deep-ultraviolet transparent phosphates RbBa2(PO3)5 and Rb2Ba3(P2O7)2 show nonlinear optical activity from condensation of [PO4](3-) units. *Journal of the American Chemical Society*, **2014**, 136, 8560-3	16.4	227
207	Beryllium-free Rb3Al3B3O10F with reinforced interlayer bonding as a deep-ultraviolet nonlinear optical crystal. *Journal of the American Chemical Society*, **2015**, 137, 2207-10	16.4	206
206	Designing a Beryllium-Free Deep-Ultraviolet Nonlinear Optical Material without a Structural Instability Problem. *Journal of the American Chemical Society*, **2016**, 138, 2961-4	16.4	185
205	Tailored Engineering of an Unusual (C H NH) (CH NH) Pb Br Two-Dimensional Multilayered Perovskite Ferroelectric for a High-Performance Photodetector. *Angewandte Chemie - International Edition*, **2017**, 56, 12150-12154	16.4	182
204	Two-Dimensional Hybrid Perovskite-Type Ferroelectric for Highly Polarization-Sensitive Shortwave Photodetection. *Journal of the American Chemical Society*, **2019**, 141, 2623-2629	16.4	164
203	Tailored synthesis of a nonlinear optical phosphate with a short absorption edge. *Angewandte Chemie - International Edition*, **2015**, 54, 4217-21	16.4	157
202	A Photoferroelectric Perovskite-Type Organometallic Halide with Exceptional Anisotropy of Bulk Photovoltaic Effects. *Angewandte Chemie - International Edition*, **2016**, 55, 6545-50	16.4	145
201	Molecular Dynamics of Flexible Polar Cations in a Variable Confined Space: Toward Exceptional Two-Step Nonlinear Optical Switches. *Advanced Materials*, **2016**, 28, 5886-90	24	137
200	Non-Centrosymmetric RbNaMgPO with Unprecedented Thermo-Induced Enhancement of Second Harmonic Generation. *Journal of the American Chemical Society*, **2018**, 140, 1592-1595	16.4	134
199	Bis(imidazolium) L-tartrate: a hydrogen-bonded displacive-type molecular ferroelectric material. *Angewandte Chemie - International Edition*, **2012**, 51, 3871-6	16.4	133
198	Bilayered Hybrid Perovskite Ferroelectric with Giant Two-Photon Absorption. *Journal of the American Chemical Society*, **2018**, 140, 6806-6809	16.4	131
197	Rational chemical doping of metal halide perovskites. *Chemical Society Reviews*, **2019**, 48, 517-539	58.5	130
196	Distinct Molecular Motions in a Switchable Chromophore Dielectric 4-N,N-Dimethylamino-4?-N?-methylstilbazolium Trifluoromethanesulfonate. *Advanced Functional Materials*, **2012**, 22, 4855-4861	15.6	124
195	Solid-state reversible quadratic nonlinear optical molecular switch with an exceptionally large contrast. *Advanced Materials*, **2013**, 25, 4159-63	24	121
194	Inch-Size Single Crystal of a Lead-Free Organic–Inorganic Hybrid Perovskite for High-Performance Photodetector. *Advanced Functional Materials*, **2018**, 28, 1705467	15.6	108
193	Exploring a Lead-free Semiconducting Hybrid Ferroelectric with a Zero-Dimensional Perovskite-like Structure. *Angewandte Chemie - International Edition*, **2016**, 55, 11854-8	16.4	108

192	Two Non-Conjugated Deep-UV Nonlinear Optical Sulfates. *Journal of the American Chemical Society*, **2019**, 141, 3833-3837	16.4	107
191	An Unprecedented Biaxial Trilayered Hybrid Perovskite Ferroelectric with Directionally Tunable Photovoltaic Effects. *Journal of the American Chemical Society*, **2019**, 141, 7693-7697	16.4	103
190	Alloying n-Butylamine into CsPbBr To Give a Two-Dimensional Bilayered Perovskite Ferroelectric Material. *Angewandte Chemie - International Edition*, **2018**, 57, 8140-8143	16.4	97
189	White-light emission in a chiral one-dimensional organic–inorganic hybrid perovskite. *Journal of Materials Chemistry C*, **2018**, 6, 6033-6037	7.1	96
188	The role of cations in second-order nonlinear optical materials based on -conjugated [BO3]3- groups. *Coordination Chemistry Reviews*, **2018**, 366, 1-28	23.2	93
187	Deep-Ultraviolet Transparent Cs2LiPO4 Exhibits an Unprecedented Second Harmonic Generation. *Chemistry of Materials*, **2016**, 28, 7110-7116	9.6	92
186	Exploring Lead-Free Hybrid Double Perovskite Crystals of (BA) CsAgBiBr with Large Mobility-Lifetime Product toward X-Ray Detection. *Angewandte Chemie - International Edition*, **2019** , 58, 15757-15761	16.4	88
185	Plastic Transition to Switch Nonlinear Optical Properties Showing the Record High Contrast in a Single-Component Molecular Crystal. *Journal of the American Chemical Society*, **2015**, 137, 15660-3	16.4	87
184	A new UV nonlinear optical material CsZn2B3O7: ZnO4 tetrahedra double the efficiency of second-harmonic generation. *Inorganic Chemistry*, **2014**, 53, 2521-7	5.1	82
183	The First 2D Hybrid Perovskite Ferroelectric Showing Broadband White-Light Emission with High Color Rendering Index. *Advanced Functional Materials*, **2019**, 29, 1805038	15.6	78
182	Integration of metal-organic frameworks into an electrochemical dielectric thin film for electronic applications. *Nature Communications*, **2016**, 7, 11830	17.4	75
181	Cooperation of Three Chromophores Generates the Water-Resistant Nitrate Nonlinear Optical Material Bi TeO OH(NO). *Angewandte Chemie - International Edition*, **2017**, 56, 540-544	16.4	70
180	An Unprecedented Antimony(III) Borate with Strong Linear and Nonlinear Optical Responses. *Angewandte Chemie - International Edition*, **2020**, 59, 7793-7796	16.4	70
179	Polarization-Driven Self-Powered Photodetection in a Single-Phase Biaxial Hybrid Perovskite Ferroelectric. *Angewandte Chemie - International Edition*, **2019**, 58, 14504-14508	16.4	68
178	High-Temperature Antiferroelectric of Lead Iodide Hybrid Perovskites. *Journal of the American Chemical Society*, **2019**, 141, 12470-12474	16.4	68
177	A Non-Centrosymmetric Dual-Emissive Metal–Organic Framework with Distinct Nonlinear Optical and Tunable Photoluminescence Properties. *Crystal Growth and Design*, **2013**, 13, 106-110	3.5	66
176	Highly efficient white-light emission in a polar two-dimensional hybrid perovskite. *Chemical Communications*, **2018**, 54, 4053-4056	5.8	63
175	Bulk crystal growth and characterization of imidazolium L-tartrate (IMLT): a novel organic nonlinear optical material with a high laser-induced damage threshold. *CrystEngComm*, **2013**, 15, 2157	3.3	60

174	Broadband white-light emission with a high color rendering index in a two-dimensional organic–inorganic hybrid perovskite. *Journal of Materials Chemistry C*, **2018**, 6, 1171-1175	7.1	59
173	(CHN)BiI: A One-Dimensional Lead-Free Perovskite-Derivative Photoconductive Light Absorber. *Inorganic Chemistry*, **2018**, 57, 4239-4243	5.1	59
172	A host-guest inclusion compound for reversible switching of quadratic nonlinear optical properties. *Chemical Communications*, **2015**, 51, 2298-300	5.8	59
171	N-Isopropylbenzylammonium tetrafluoroborate: an organic dielectric relaxor with a tunable transition between high and low dielectric states. *Journal of Materials Chemistry C*, **2014**, 2, 567-572	7.1	57
170	Bandgap Narrowing of Lead-Free Perovskite-Type Hybrids for Visible-Light-Absorbing Ferroelectric Semiconductors. *Journal of Physical Chemistry Letters*, **2017**, 8, 2012-2018	6.4	56
169	Phase Transition Triggered by Ordering of Unique Pendulum-Like Motions in a Supramolecular Complex: Potassium Hydrogen Bis(dichloroacetate)-18-Crown-6. *Crystal Growth and Design*, **2013**, 13, 2675-2679	3.5	56
168	Ultrahigh pyroelectric figures of merit associated with distinct bistable dielectric phase transition in a new molecular compound: di-n-butylaminium trifluoroacetate. *Advanced Materials*, **2015**, 27, 4795-801	24	55
167	Bulk Crystal Growth and Optical and Thermal Properties of the Nonlinear Optical Crystal l-Histidinium-4-nitrophenolate 4-Nitrophenol (LHPP). *Crystal Growth and Design*, **2012**, 12, 2673-2678	3.5	55
166	Exploring a Polar Two-dimensional Multi-layered Hybrid Perovskite of (C5H11NH3)2(CH3NH3)Pb2I7 for Ultrafast-Responding Photodetection. *Laser and Photonics Reviews*, **2018**, 12, 1800060	8.3	55
165	Room-Temperature Ferroelectric Material Composed of a Two-Dimensional Metal Halide Double Perovskite for X-ray Detection. *Angewandte Chemie - International Edition*, **2020**, 59, 13879-13884	16.4	54
164	A sequentially switchable molecular dielectric material tuned by the stepwise ordering in diisopropylammonium trifluoromethanesulfonate. *Journal of Materials Chemistry C*, **2014**, 2, 2341-2345	7.1	53
163	The role of dipole moment in determining the nonlinear optical behavior of materials: ab initio studies on quaternary molybdenum tellurite crystals. *Journal of Materials Chemistry C*, **2014**, 2, 530-537	7.1	52
162	Tailored Engineering of an Unusual (C4H9NH3)2(CH3NH3)2Pb3Br10 Two-Dimensional Multilayered Perovskite Ferroelectric for a High-Performance Photodetector. *Angewandte Chemie*, **2017**, 129, 12318-12322	3.6	52
161	Exploiting the Bulk Photovoltaic Effect in a 2D Trilayered Hybrid Ferroelectric for Highly Sensitive Polarized Light Detection. *Angewandte Chemie - International Edition*, **2020**, 59, 3933-3937	16.4	52
160	Discovery of an Above-Room-Temperature Antiferroelectric in Two-Dimensional Hybrid Perovskite. *Journal of the American Chemical Society*, **2019**, 141, 3812-3816	16.4	52
159	A near-room-temperature organic-inorganic hybrid ferroelectric: [CHCHCHNH][CdI]. *Chemical Communications*, **2017**, 53, 5764-5766	5.8	51
158	Tailored Synthesis of a Nonlinear Optical Phosphate with a Short Absorption Edge. *Angewandte Chemie*, **2015**, 127, 4291-4295	3.6	50
157	Second-Order Nonlinear Optical Switch of a New Hydrogen-Bonded Supramolecular Crystal with a High Laser-Induced Damage Threshold. *Advanced Optical Materials*, **2014**, 2, 1199-1205	8.1	48

156	Chiral Lead-Free Hybrid Perovskites for Self-Powered Circularly Polarized Light Detection. *Angewandte Chemie - International Edition*, **2021**, 60, 8415-8418	16.4	48
155	A supra-molecular switchable dielectric material with non-linear optical properties. *Journal of Materials Chemistry C*, **2017**, 5, 2865-2870	7.1	47
154	Trilayered Lead Chloride Perovskite Ferroelectric Affording Self-Powered Visible-Blind Ultraviolet Photodetection with Large Zero-Bias Photocurrent. *Journal of the American Chemical Society*, **2020**, 142, 55-59	16.4	47
153	Designing a Deep-UV Nonlinear Optical Fluorooxosilicophosphate. *Journal of the American Chemical Society*, **2020**, 142, 6472-6476	16.4	46
152	A Potential Sn-Based Hybrid Perovskite Ferroelectric Semiconductor. *Journal of the American Chemical Society*, **2020**, 142, 1159-1163	16.4	45
151	Synthesis and Crystal Structures of the First Two Novel Dicarboxylate Organotin Polymers Constructed from Dimeric Tetraorganodistannoxane Units. *European Journal of Inorganic Chemistry*, **2002**, 2002, 2082-2085	2.3	43
150	Dimensional Reduction of Cs AgBiBr : A 2D Hybrid Double Perovskite with Strong Polarization Sensitivity. *Angewandte Chemie - International Edition*, **2020**, 59, 3429-3433	16.4	42
149	Li8NaRb3(SO4)6·2H2O as a new sulfate deep-ultraviolet nonlinear optical material. *Journal of Materials Chemistry C*, **2018**, 6, 12240-12244	7.1	42
148	Strong Nonlinear-Optical Response in the Pyrophosphate CsLiCdPO with a Short Cutoff Edge. *Inorganic Chemistry*, **2016**, 55, 11626-11629	5.1	41
147	High-Performance Switching of Bulk Quadratic Nonlinear Optical Properties with Large Contrast in Polymer Films Based on Organic Hydrogen-Bonded Ferroelectrics. *Chemistry of Materials*, **2015**, 27, 4493-4498	9.6	40
146	A Lead-Free Hybrid Iodide with Quantitative Response to X-ray Radiation. *Chemistry of Materials*, **2019**, 31, 5927-5932	9.6	40
145	Inorganic–organic hybrid switchable dielectric materials with the coexistence of magnetic anomalies induced by reversible high-temperature phase transition. *Journal of Materials Chemistry C*, **2017**, 5, 8509-8515	7.1	39
144	An organic–inorganic hybrid co-crystal complex as a high-performance solid-state nonlinear optical switch. *Journal of Materials Chemistry C*, **2016**, 4, 266-271	7.1	38
143	Halide Double Perovskite Ferroelectrics. *Angewandte Chemie - International Edition*, **2020**, 59, 9305-9308	16.4	37
142	[C5H12N]CdCl3: an ABX3 perovskite-type semiconducting switchable dielectric phase transition material. *Inorganic Chemistry Frontiers*, **2017**, 4, 1485-1492	6.8	36
141	A semi-conductive organic–inorganic hybrid emits pure white light with an ultrahigh color rendering index. *Journal of Materials Chemistry C*, **2017**, 5, 4731-4735	7.1	36
140	Switchable dielectric behaviour associated with above room-temperature phase transition in N-isopropylbenzylammonium dichloroacetate (N-IPBADC). *Journal of Materials Chemistry C*, **2014**, 2, 6134-6139	7.1	36
139	A beryllium-free deep-UV nonlinear optical material CsNaMgP2O7 with honeycomb-like topological layers. *Journal of Materials Chemistry C*, **2018**, 6, 3910-3916	7.1	35

138	[C6H14N]PbI3: a one-dimensional perovskite-like order–disorder phase transition material with semiconducting and switchable dielectric attributes. *Inorganic Chemistry Frontiers*, **2018**, 5, 897-902	6.8	35
137	A Photoferroelectric Perovskite-Type Organometallic Halide with Exceptional Anisotropy of Bulk Photovoltaic Effects. *Angewandte Chemie*, **2016**, 128, 6655-6660	3.6	35
136	pH modulated assembly in the mixed-ligand system Cd(II)–pstc–phen: structural diversity and luminescent properties. *CrystEngComm*, **2013**, 15, 3992	3.3	35
135	Triiodide-Induced Band-Edge Reconstruction of a Lead-Free Perovskite-Derivative Hybrid for Strong Light Absorption. *Chemistry of Materials*, **2018**, 30, 4081-4088	9.6	35
134	Spacer Cation Alloying of a Homoconformational Carboxylate Isomer to Boost in-Plane Ferroelectricity in a 2D Hybrid Perovskite. *Journal of the American Chemical Society*, **2021**, 143, 2130-2137	16.4	35
133	[(CH) NH] Bi I : A Polar Lead-Free Hybrid Perovskite-Like Material as a Potential Semiconducting Absorber. *Chemistry - A European Journal*, **2017**, 23, 17304-17310	4.8	34
132	Ferroelectricity-Driven Self-Powered Ultraviolet Photodetection with Strong Polarization Sensitivity in a Two-Dimensional Halide Hybrid Perovskite. *Angewandte Chemie - International Edition*, **2020**, 59, 18933-18937	16.4	34
131	Highly Sensitive and Ultrafast Responding Array Photodetector Based on a Newly Tailored 2D Lead Iodide Perovskite Crystal. *Advanced Optical Materials*, **2019**, 7, 1900308	8.1	32
130	(CHNI)AgBiI: a direct-bandgap layered double perovskite based on a short-chain spacer cation for light absorption. *Chemical Communications*, **2020**, 56, 3206-3209	5.8	32
129	Reversible phase transition driven by order–disorder transformations of metal-halide moieties in [(C6H14)NH2]2[CuBr4]. *Journal of Materials Chemistry C*, **2016**, 4, 7537-7540	7.1	31
128	Realization of “warm” white light via halide substitution in polar two-dimensional hybrid perovskites (2meptH2)PbClxBr4−x. *Journal of Materials Chemistry C*, **2018**, 6, 12267-12272	7.1	31
127	ABX3-Type Organic-Inorganic Hybrid Phase Transition Material: 1-Pentyl-3-methylimidazolium Tribromoplumbate. *Inorganic Chemistry*, **2015**, 54, 7136-8	5.1	30
126	An Exceptional Peroxide Birefringent Material Resulting from d-π Interactions. *Angewandte Chemie - International Edition*, **2020**, 59, 9414-9417	16.4	30
125	Tailored Synthesis of an Unprecedented Pb-Mn Heterometallic Halide Hybrid with Enhanced Emission. *Journal of the American Chemical Society*, **2019**, 141, 12197-12201	16.4	30
124	A New KBBF-Family Nonlinear Optical Material with Strong Interlayer Bonding. *Crystal Growth and Design*, **2017**, 17, 4422-4427	3.5	30
123	Triethylammonium picrate: An above-room-temperature phase transition material to switch quadratic nonlinear optical properties. *Chinese Chemical Letters*, **2018**, 29, 285-288	8.1	29
122	A lead-free perovskite-like hybrid with above-room-temperature switching of quadratic nonlinear optical properties. *Chemical Communications*, **2018**, 54, 5614-5617	5.8	28
121	Ultrasensitive polarized-light photodetectors based on 2D hybrid perovskite ferroelectric crystals with a low detection limit. *Science Bulletin*, **2021**, 66, 158-163	10.6	27

120	Tailoring of a visible-light-absorbing biaxial ferroelectric towards broadband self-driven photodetection. *Nature Communications*, **2021**, 12, 284	17.4	27
119	Giant and Broadband Multiphoton Absorption Nonlinearities of a 2D Organometallic Perovskite Ferroelectric. *Advanced Materials*, **2020**, 32, e2002972	24	26
118	Chirality-Dependent Second-Order Nonlinear Optical Effect in 1D Organic-Inorganic Hybrid Perovskite Bulk Single Crystal. *Angewandte Chemie - International Edition*, **2021**, 60, 20021-20026	16.4	26
117	Lead-Free Hybrid Material with an Exceptional Dielectric Phase Transition Induced by a Chair-to-Boat Conformation Change of the Organic Cation. *Inorganic Chemistry*, **2017**, 56, 13078-13085	5.1	25
116	3D-to-2D Dimensional Reduction for Exploiting a Multilayered Perovskite Ferroelectric toward Polarized-Light Detection in the Solar-Blind Ultraviolet Region. *Angewandte Chemie - International Edition*, **2020**, 59, 21693-21697	16.4	25
115	Alloying n-Butylamine into CsPbBr3 To Give a Two-Dimensional Bilayered Perovskite Ferroelectric Material. *Angewandte Chemie*, **2018**, 130, 8272-8275	3.6	23
114	Phase transition originating from order-disorder transformations of carboxy oxygen atoms coupled with dynamic proton motions in [PhCH2 NH(CH3)2]2 C2O4?H2 C2O4. *Chemistry - an Asian Journal*, **2014**, 9, 1771-6	4.5	23
113	The First Two Novel Metallomacrocycles Constructed from Cubane-Like Cu4I4 Cluster Units and Ditopic Diamines. *European Journal of Inorganic Chemistry*, **2002**, 2002, 3097-3100	2.3	23
112	Large-Area Exfoliated Lead-Free Perovskite-Derivative Single-Crystalline Membrane for Flexible Low-Defect Photodetectors. *ACS Applied Materials & Interfaces*, **2020**, 12, 9141-9149	9.5	23
111	[C H N]SnCl : A Tin Halide Organic-Inorganic Hybrid as an Above-Room-Temperature Solid-State Nonlinear Optical Switch. *Chemistry - A European Journal*, **2019**, 25, 2610-2615	4.8	23
110	Intrinsic Strong Linear Dichroism of Multilayered 2D Hybrid Perovskite Crystals toward Highly Polarized-Sensitive Photodetection. *Advanced Optical Materials*, **2019**, 7, 1901049	8.1	22
109	Realization of vis-NIR Dual-Modal Circularly Polarized Light Detection in Chiral Perovskite Bulk Crystals. *Journal of the American Chemical Society*, **2021**, 143, 14077-14082	16.4	22
108	Unusual Long-Range Ordering Incommensurate Structural Modulations in an Organic Molecular Ferroelectric. *Journal of the American Chemical Society*, **2017**, 139, 15900-15906	16.4	21
107	A Molecular Ferroelectric Showing Room-Temperature Record-Fast Switching of Spontaneous Polarization. *Angewandte Chemie - International Edition*, **2018**, 57, 9833-9837	16.4	21
106	Acquiring High-T Layered Metal Halide Ferroelectrics via Cage-Confined Ethylamine Rotators. *Angewandte Chemie - International Edition*, **2021**, 60, 2839-2843	16.4	21
105	Room-Temperature Ferroelectric Material Composed of a Two-Dimensional Metal Halide Double Perovskite for X-ray Detection. *Angewandte Chemie*, **2020**, 132, 13983-13988	3.6	20
104	Above-room-temperature switching of quadratic nonlinear optical properties in a Bi□halide organic□norganic hybrid. *Journal of Materials Chemistry C*, **2018**, 6, 9532-9536	7.1	20
103	A lead-free semiconducting hybrid with ultra-high color rendering index white-light emission. *Journal of Materials Chemistry C*, **2018**, 6, 2801-2805	7.1	19

102	Switchable behaviors of quadratic nonlinear optical properties originating from bi-step phase transitions in a molecule-based crystal. *Journal of Materials Chemistry C*, **2018**, 6, 4150-4155	7.1	19
101	Broad-Band-Emissive Organic-Inorganic Hybrid Semiconducting Nanowires Based on an ABX-Type Chain Compound. *Inorganic Chemistry*, **2017**, 56, 8776-8781	5.1	19
100	Structural Phase Transition and Switchable Dielectric Properties of a Unique Two-Dimensional Organic□Inorganic Hybrid Perovskite Compound [C6H11NH2CH3]4Pb3I10. *Crystal Growth and Design*, **2018**, 18, 7316-7322	3.5	19
99	Highly-Anisotropic Dion-Jacobson Hybrid Perovskite by Tailoring Diamine into CsPbBr for Polarization-Sensitive Photodetection. *Small*, **2020**, 16, e1907020	11	18
98	A one-dimensional dual emissive hybrid perovskite with flexibly tunable white-light emission. *Journal of Materials Chemistry C*, **2020**, 8, 6710-6714	7.1	18
97	[C H N]PbBr : An ABX -Type Semiconducting Perovskite Hybrid with Above-Room-Temperature Phase Transition. *Chemistry - an Asian Journal*, **2018**, 13, 982-988	4.5	18
96	Reversible Phase Transition Triggered by Order□Disorder Transformation of Carboxyl Oxygen Atoms Coupled with Distinct Reorientations in [HN(C4H9)3](fumrate)0.5□(fumaric acid)0.5. *Crystal Growth and Design*, **2016**, 16, 895-899	3.5	18
95	Highly Oriented Thin Films of 2D Ruddlesden-Popper Hybrid Perovskite toward Superfast Response Photodetectors. *Small*, **2019**, 15, e1901194	11	18
94	Dielectric phase transition triggered by the order□disorder transformation of cyclopropylamine in a layered organic□inorganic halide perovskite. *Journal of Materials Chemistry C*, **2018**, 6, 10327-10331	7.1	18
93	Exploring Lead-Free Hybrid Double Perovskite Crystals of (BA)2CsAgBiBr7 with Large Mobility-Lifetime Product toward X-Ray Detection. *Angewandte Chemie*, **2019**, 131, 15904-15908	3.6	17
92	Exploration of Chiral Organic-Inorganic Hybrid Semiconducting Lead Halides. *Chemistry - an Asian Journal*, **2019**, 14, 2273-2277	4.5	17
91	A Langbeinite-Type Yttrium Phosphate LiCsY(PO). *Inorganic Chemistry*, **2018**, 57, 13087-13091	5.1	17
90	Exceptional bi-step switching of quadratic nonlinear optical properties in a one-dimensional channel compound. *Chemical Communications*, **2017**, 53, 7669-7672	5.8	16
89	(2-Methylpiperidine)PbI3: an ABX3-type organic□inorganic hybrid chain compound and its semiconducting nanowires with photoconductive properties. *Journal of Materials Chemistry C*, **2017**, 5, 11466-11471	7.1	16
88	Dibutylammonium Hydrogen Oxalate: An Above-Room-Temperature Order□Disorder Phase Transition Molecular Material. *Crystal Growth and Design*, **2015**, 15, 5263-5268	3.5	16
87	Rational Design and Syntheses of Molecular Phase Transition Crystal Materials. *Crystal Growth and Design*, **2016**, 16, 6685-6695	3.5	16
86	Polarization-Driven Self-Powered Photodetection in a Single-Phase Biaxial Hybrid Perovskite Ferroelectric. *Angewandte Chemie*, **2019**, 131, 14646-14650	3.6	16
85	Exceptional dielectric performance induced by the stepwise reversible phase transitions of an organic crystal: betainium chlorodifluoroacetate. *Journal of Materials Chemistry C*, **2014**, 2, 10337-10342	7.1	16

84	Thermochromism to tune the optical bandgap of a lead-free perovskite-type hybrid semiconductor for efficiently enhancing photocurrent generation. *Journal of Materials Chemistry C*, **2017**, 5, 9967-9971	7.1	16
83	Two Heteromorphic Crystals of Antimony-Based Hybrids Showing Tunable Optical Band Gaps and Distinct Photoelectric Responses. *Inorganic Chemistry*, **2019**, 58, 6544-6549	5.1	15
82	[(N-AEPz)ZnCl]Cl: A "Green" Metal Halide Showing Highly Efficient Bluish-White-Light Emission. *Inorganic Chemistry*, **2020**, 59, 3527-3531	5.1	15
81	Centimeter-Sized Single Crystal of a One-Dimensional Lead-Free Mixed-Cation Perovskite Ferroelectric for Highly Polarization Sensitive Photodetection. *Journal of the American Chemical Society*, **2021**, 143, 16758-16767	16.4	15
80	Dimensional Reduction of Cs2AgBiBr6: A 2D Hybrid Double Perovskite with Strong Polarization Sensitivity. *Angewandte Chemie*, **2020**, 132, 3457-3461	3.6	15
79	Soft Perovskite-Type Antiferroelectric with Giant Electrocaloric Strength near Room Temperature. *Journal of the American Chemical Society*, **2020**, 142, 20744-20751	16.4	15
78	Tunable optical absorption in lead-free perovskite-like hybrids by iodide management. *Chemical Communications*, **2019**, 55, 14174-14177	5.8	15
77	Minute-Scale Rapid Crystallization of a Highly Dichroic 2D Hybrid Perovskite Crystal toward Efficient Polarization-Sensitive Photodetector. *Advanced Optical Materials*, **2020**, 8, 2000149	8.1	14
76	Crystal Growth and Optical Properties of Beryllium-Free Nonlinear Optical Crystal K3Ba3Li2Al4B6O20F. *Crystal Growth and Design*, **2018**, 18, 1168-1172	3.5	14
75	Dibenzylammonium trichloroacetate: an above-room-temperature order–disorder switchable dielectric material. *CrystEngComm*, **2016**, 18, 3606-3611	3.3	14
74	A Multiaxial Layered Halide Double Perovskite Ferroelectric with Multiple Ferroic Orders. *Chemistry of Materials*, **2020**, 32, 8965-8970	9.6	14
73	Nonlinear Optical Crystal Rb4Sn3Cl2Br8: Synthesis, Structure, and Characterization. *Crystal Growth and Design*, **2018**, 18, 380-385	3.5	14
72	A new phase-matchable nonlinear optical silicate: Rb2ZnSi3O8. *Journal of Materials Chemistry C*, **2017**, 5, 11025-11029	7.1	13
71	A Deep-UV Nonlinear Optical Borosulfate with Incommensurate Modulations. *Angewandte Chemie - International Edition*, **2021**, 60, 11457-11463	16.4	13
70	High performance self-powered photodetection with a low detection limit based on a two-dimensional organometallic perovskite ferroelectric. *Journal of Materials Chemistry C*, **2021**, 9, 881-887	7.1	13
69	A Nonlinear Optical Switchable Sulfate of Ultrawide Bandgap. *CCS Chemistry*, **2021**, 3, 2298-2306	7.2	13
68	Hydrogen-Bonded Switchable Dielectric Material Showing the Bistability of Second-Order Nonlinear Optical Properties. *Crystal Growth and Design*, **2017**, 17, 3250-3256	3.5	12
67	Epitaxial Growth of Centimeter-Sized Lead-Free (BA)CsAgBiBr/CsAgBiBr Heterocrystals for Self-Driven X-ray Detection. *Journal of the American Chemical Society*, **2021**,	16.4	12

66	Exploiting the Bulk Photovoltaic Effect in a 2D Trilayered Hybrid Ferroelectric for Highly Sensitive Polarized Light Detection. *Angewandte Chemie*, **2020**, 132, 3961-3965	3.6	12
65	Exceptional Three-Level Switching Behaviors of Quadratic Nonlinear Optical Properties in a Tristable Molecule-Based Dielectric. *Chemistry of Materials*, **2017**, 29, 3251-3256	9.6	11
64	Solution-Grown Large-Sized Single-Crystalline 2D/3D Perovskite Heterostructure for Self-Powered Photodetection. *Advanced Optical Materials*, **2020**, 8, 2000311	8.1	11
63	A High-Temperature Order-Disorder Phase Transition Coupled With Conformational Change in the Hybrid Material [C H NH] ?ZnBr. *Chemistry - an Asian Journal*, **2016**, 11, 2876-2881	4.5	11
62	Bromine-Substitution-Induced High- Two-Dimensional Bilayered Perovskite Photoferroelectric. *Journal of the American Chemical Society*, **2021**, 143, 7593-7598	16.4	11
61	Abrupt Structural Transformation in Asymmetric ABPOF (A = K, Rb, Cs). *Inorganic Chemistry*, **2019**, 58, 1733-1737	5.1	11
60	Heterogeneous Integration of Chiral Lead-Chloride Perovskite Crystals with Si Wafer for Boosted Circularly Polarized Light Detection in Solar-Blind Ultraviolet Region. *Small*, **2021**, 17, e2102884	11	11
59	N-Methylpyrrolidinium hydrogen tartrate (NMPHT): an above-room-temperature order□disorder molecular switchable dielectric material. *RSC Advances*, **2017**, 7, 24368-24373	3.7	10
58	Mixing Halogens To Assemble an All-Inorganic Layered Perovskite with Warm White-Light Emission. *Chemistry - A European Journal*, **2018**, 24, 9243-9246	4.8	10
57	A Molecular Ferroelectric Showing Room-Temperature Record-Fast Switching of Spontaneous Polarization. *Angewandte Chemie*, **2018**, 130, 9981-9985	3.6	10
56	3D-to-2D Dimensional Reduction for Exploiting a Multilayered Perovskite Ferroelectric toward Polarized-Light Detection in the Solar-Blind Ultraviolet Region. *Angewandte Chemie*, **2020**, 132, 21877-21881	3.6	10
55	Rational design of a triiodide-intercalated dielectric-switching hybrid for visible-light absorption. *Journal of Materials Chemistry C*, **2018**, 6, 12170-12174	7.1	10
54	Multilayered 2D Cesium-Based Hybrid Perovskite with Strong Polarization Sensitivity: Dimensional Reduction of CsPbBr. *Chemistry - A European Journal*, **2020**, 26, 3494-3498	4.8	9
53	(1,4-Butyldiammonium)CdBr4: a layered organic□inorganic hybrid perovskite with a visible-blind ultraviolet photoelectric response. *Inorganic Chemistry Frontiers*, **2018**, 5, 2450-2455	6.8	9
52	Structural Origin of Thermally Induced Second Harmonic Generation Enhancement in RbNaMgP2O7. *Chemistry of Materials*, **2019**, 31, 9843-9849	9.6	9
51	Great Amplification of Circular Polarization Sensitivity via Heterostructure Engineering of a Chiral Two-Dimensional Hybrid Perovskite Crystal with a Three-Dimensional MAPbI Crystal. *ACS Central Science*, **2021**, 7, 1261-1268	16.8	9
50	A lead-free I-based hybrid double perovskite (I-C4H8NH3)4AgBiI8 for X-ray detection. *Journal of Materials Chemistry C*,	7.1	9
49	Monolayer-to-Multilayer Dimensionality Reconstruction in a Hybrid Perovskite for Exploring the Bulk Photovoltaic Effect Enables Passive X-ray Detection. *Angewandte Chemie - International Edition*, **2021**, 60, 20970-20976	16.4	9

48	High-Curie Temperature Multilayered Hybrid Double Perovskite Photoferroelectrics Induced by Aromatic Cation Alloying. *Journal of the American Chemical Society*, **2021**, 143, 15900-15906	16.4	9
47	Tailoring Interlayered Spacers of Two-Dimensional Cesium-Based Perovskite Ferroelectrics toward Exceptional Ferro-Pyro-Phototronic Effects.. *Small*, **2022**, e2106888	11	8
46	Giant room temperature electrocaloric effect in a layered hybrid perovskite ferroelectric: [(CH)CHCHNH]PbCl. *Nature Communications*, **2021**, 12, 5502	17.4	8
45	Exploiting two-dimensional hybrid perovskites incorporating secondary amines for high-performance array photodetection. *Journal of Materials Chemistry C*, **2020**, 8, 12848-12853	7.1	8
44	Self-Powered Visible-Infrared Polarization Photodetection Driven by Ferroelectric Photovoltaic Effect in a Dion□acobson Hybrid Perovskite. *Advanced Functional Materials*,2200223	15.6	8
43	Structural phase transition and dielectric anisotropy properties of a lead-free organic□norganic hybrid. *Inorganic Chemistry Frontiers*, **2019**, 6, 1761-1766	6.8	7
42	Rational design of high-quality 2D/3D perovskite heterostructure crystals for record-performance polarization-sensitive photodetection. *National Science Review*, **2021**, 8, nwab044	10.8	7
41	Chiral Lead-Free Hybrid Perovskites for Self-Powered Circularly Polarized Light Detection. *Angewandte Chemie*, **2021**, 133, 8496-8499	3.6	7
40	(□Methoxy propyl amine)2PbBr4: a novel two-dimensional halide hybrid perovskite with efficient bluish white-light emission. *Inorganic Chemistry Frontiers*, **2021**, 8, 2119-2124	6.8	7
39	A new antimony-based organic□norganic hybrid absorber with photoconductive response. *Inorganic Chemistry Frontiers*, **2018**, 5, 3028-3032	6.8	7
38	Halide Double Perovskite Ferroelectrics. *Angewandte Chemie*, **2020**, 132, 9391-9394	3.6	6
37	Synthesis and Crystal Structure of a Puckered Rhombus Grid-like Coordination Polymer with Bridging Ligand Containing Sulfanyl Linker. *Chinese Journal of Chemistry*, **2010**, 22, 51-54	4.9	6
36	Temperature-triggered order□isorder phase transition in molecular-ionic material N-butyldiethanolammonium picrate monohydrate. *RSC Advances*, **2016**, 6, 69546-69550	3.7	6
35	Noncentrosymmetric K2Mn3(SO4)3F2□4H2O and Rb2Mn3(SO4)3F2□2H2O with pseudo-KTP structures. *Chinese Chemical Letters*, **2021**, 32, 263-265	8.1	6
34	Exploring a Fatigue-Free Layered Hybrid Perovskite Ferroelectric for Photovoltaic Non-Volatile Memories. *Angewandte Chemie - International Edition*, **2021**, 60, 10598-10602	16.4	6
33	An Antimony(III) Fluoride Oxalate with Large Birefringence. *Chemistry - A European Journal*, **2021**, 27, 4557-4560	4.8	6
32	Near-room-temperature tunable dielectric response induced by dual phase transitions in a lead-free hybrid: (C3H8N)2SbBr5. *CrystEngComm*, **2019**, 21, 3740-3744	3.3	5
31	A chiral lead-free photoactive hybrid material with a narrow bandgap. *Inorganic Chemistry Frontiers*, **2020**, 7, 2770-2777	6.8	5

30	2D Hybrid perovskite incorporating cage-confined secondary ammonium cations toward effective photodetection.. *Chemical Communications*, **2021**,	5.8	5
29	A Deep-UV Nonlinear Optical Borosulfate with Incommensurate Modulations. *Angewandte Chemie*, **2021**, 133, 11558-11564	3.6	5
28	The First Improper Ferroelectric of 2D Multilayered Hybrid Perovskite Enabling Strong Tunable Polarization-Directed Second Harmonic Generation Effect. *Advanced Functional Materials*, **2021**, 31, 2103012	15.6	5
27	Physical Properties of a Promising Nonlinear Optical Crystal K3Ba3Li2Al4B6O20F. *Crystal Growth and Design*, **2018**, 18, 7368-7372	3.5	5
26	Rational alloying of secondary and aromatic ammonium cations in a metal-halide perovskite toward crystal-array photodetection. *Science China Materials*,1	7.1	5
25	Recent Development of Non-π-Conjugated Deep Ultraviolet Nonlinear Optical Materials. *Chemistry of Materials*, **2022**, 34, 5-28	9.6	5
24	Exploring a lead-free organic-inorganic semiconducting hybrid with above-room-temperature dielectric phase transition.. *RSC Advances*, **2020**, 10, 17492-17496	3.7	4
23	Ferroelectricity-Driven Self-Powered Ultraviolet Photodetection with Strong Polarization Sensitivity in a Two-Dimensional Halide Hybrid Perovskite. *Angewandte Chemie*, **2020**, 132, 19095-19099	3.6	4
22	Two-Dimensional Guanidine-Based Hybrid Perovskites with Strong Dichroism for Multiwavelength Polarization-Sensitive Detection. *Chemistry - A European Journal*, **2021**, 27, 9267-9271	4.8	4
21	Acquiring High-TC Layered Metal Halide Ferroelectrics via Cage-Confined Ethylamine Rotators. *Angewandte Chemie*, **2021**, 133, 2875-2879	3.6	4
20	An organic-inorganic hybrid birefringent material with diverse functional groups. *Chemical Communications*, **2021**, 57, 6668-6671	5.8	4
19	Non-π-Conjugated Deep-Ultraviolet Nonlinear Optical Crystal KZn(SO)(HSO)F. *Journal of Physical Chemistry Letters*, **2021**, 12, 8280-8284	6.4	4
18	2D van der Waals Layered [C(NH)]SOS Exhibits Desirable UV Nonlinear-Optical Trade-Off. *Inorganic Chemistry*, **2021**, 60, 14544-14549	5.1	4
17	An Uncommon Hypervalent Fluorooxosilicophosphate. *Chemistry - an Asian Journal*, **2019**, 14, 4174-4178	4.5	3
16	Successive near-room-temperature dielectric phase transitions in a lead-free hybrid perovskite-like compound. *Inorganic Chemistry Frontiers*, **2019**, 6, 233-237	6.8	3
15	Synthesis and Crystal Structure of a Novel Hydrogen-Bonded Three-Dimensional Polymer [Zn (1,4-benzenedicarboxylate) -(pyridine)·H2O]n. *Chinese Journal of Chemistry*, **2010**, 20, 1124-1128	4.9	3
14	Unusual ferroelectric-dependent birefringence in 2D trilayered perovskite-type ferroelectric exploited by dimensional tailoring. *Matter*, **2021**,	12.7	3
13	Cage-incorporation of secondary amine in Ruddlesden-Popper 2D hybrid perovskite with strong photoconductivity and polarization response. *Journal of Materials Chemistry C*, **2021**, 9, 17349-17356	7.1	3

12	Bilayered Two-Dimensional Hybrid Perovskite with the Cage-Templated Secondary Cation for High Efficiency Photodetection. *Inorganic Chemistry Frontiers*,	6.8	3
11	A new nonlinear optical sulfate of layered structure: Cs2Zn2(SO4)3. *Inorganic Chemistry Communication*, **2021**, 124, 108390	3.1	3
10	An optoelectronic duple bistable phosphate with ultrahigh thermal stability. *Journal of Materials Chemistry C*, **2018**, 6, 388-392	7.1	3
9	A Metal-Free Molecular Antiferroelectric Material Showing High Phase Transition Temperatures and Large Electrocaloric Effects. *Journal of the American Chemical Society*, **2021**, 143, 14379-14385	16.4	3
8	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	3.6	3
7	Synthesis, Structure, and Characterization of a Microporous Metal-Organic Framework with PtS Topology. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2013**, 639, 1804-1807	1.3	2
6	Incorporating Guanidinium as Perovskitizer-Cation of Two-Dimensional Metal Halide for Crystal-Array Photodetectors. *Chemistry - an Asian Journal*, **2021**, 16, 1925-1929	4.5	2
5	Chirality-Dependent Second-Order Nonlinear Optical Effect in 1D Organic–Inorganic Hybrid Perovskite Bulk Single Crystal. *Angewandte Chemie*, **2021**, 133, 20174-20179	3.6	2
4	A reduced-dimensional polar hybrid perovskite for self-powered broad-spectrum photodetection. *Chemical Science*, **2021**, 12, 3050-3054	9.4	2
3	Polar Photovoltaic Effect in Chiral Alternating Cations Intercalation-Type Perovskites Driving Self-Powered Ultraviolet Circularly Polarized Light Detection. *Advanced Optical Materials*,2200146	8.1	2
2	Exploring a layered iodide perovskite crystal with centimetered dimension for extended spectral polarization-sensitive photodetection. *Journal of Materials Chemistry C*, **2021**, 9, 9499-9504	7.1	1
1	Exploring a Fatigue-Free Layered Hybrid Perovskite Ferroelectric for Photovoltaic Non-Volatile Memories. *Angewandte Chemie*, **2021**, 133, 10692-10696	3.6	