

Xiang-Bin Han

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Structural phase transition-associated dielectric transition and ferroelectricity in coordination compounds. <i>Coordination Chemistry Reviews</i> , 2019, 378, 561-576.	18.8	124
2	Structural Phase Transitions and Dielectric Switching in a Series of Organic-Inorganic Hybrid Perovskites ABX_3 ($X=ClO_4^{\supset}$ or BF_4^{\supset}). <i>Chemistry - A European Journal</i> , 2017, 23, 11126-11132.	3.3	32
3	In situ surface-enhanced Raman spectroscopy in Li-O ₂ battery research. <i>Current Opinion in Electrochemistry</i> , 2019, 17, 174-183.	4.8	30
4	Ferroic phase transition molecular crystals. <i>CrystEngComm</i> , 2022, 24, 1507-1517.	2.6	25
5	A ferroelastic molecular rotor crystal showing inverse temperature symmetry breaking. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2809-2816.	6.0	22
6	Tuning dielectric transitions by B ²⁺ -site mixing in hybrid double perovskite crystals $(CH_3NH_3)_2[K_1-xRbxCo(CN)_6]$ ($x = 0.23-0.62$). <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1604-1608.	6.0	21
7	Reaction mechanisms of the oxygen reduction and evolution reactions in aprotic solvents for Li-O ₂ batteries. <i>Current Opinion in Electrochemistry</i> , 2019, 14, 151-156.	4.8	21
8	Organic-inorganic hybrid $[H_2mdap][BiCl_5]$ showing an above-room-temperature ferroelectric transition with combined order-disorder and displacive origins. <i>Polyhedron</i> , 2017, 133, 132-136.	2.2	20
9	Structural Design of Oxygen Reduction Redox Mediators (ORRs) Based on Anthraquinone (AQ) for the Li-O ₂ Battery. <i>ACS Catalysis</i> , 2020, 10, 9790-9803.	11.2	20
10	1,4-Diazabicyclo[2.2.2]octane-based disalts showing non-centrosymmetric structures and phase transition behaviors. <i>CrystEngComm</i> , 2016, 18, 1563-1569.	2.6	14
11	Mixed Bromine-Chlorine Induced Great Dielectric and Second-Order Nonlinear Optical Properties Changes in Phase Transitions Compounds $[H_2mdap][BiBr_5(1-x)Cl_5x]$ ($x = 0.00-1.00$). <i>Journal of Physical Chemistry C</i> , 2017, 121, 23039-23044.	3.1	14
12	Structural phase transitions and dielectric transitions in a 1,4-diazabicyclo[2.2.2]octane (dabco) based organic crystal. <i>Journal of Molecular Structure</i> , 2017, 1127, 372-376.	3.6	14
13	Deuteration triggered downward shift of dielectric phase transition temperature in a hydrogen-bonded molecular crystal. <i>Chinese Chemical Letters</i> , 2022, 33, 1422-1424.	9.0	12
14	Switchable Dielectric Constant in the Cyanometalate-Based Hydrogen-Bonded $[(CH_3)_2NH_2]_2(H_3)TjETQqO_0O_0$. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11111-11118.	2.0	11
15	<i>cis/trans</i> -Isomeric Cation Tuning Photoluminescence and Photodetection in 2D Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4119-4124.	4.6	11
16	Role of the B ²⁺ -site metal ion in the framework structures and dielectric transitions in host-guest type cyanometalates $(Hlm)_2[B^{2+}Co(CN)_6]$ ($Hlm = imidazolium$ cation). <i>CrystEngComm</i> , 2020, 22, 1848-1852.	2.6	9
17	Water motion-controlled reversible phase transition and de/absorption-controlled reversible phase transformation in the hydrate crystal (BEDABCO) $ClO_4 \cdot H_2O$ and its analogs. <i>CrystEngComm</i> , 2016, 18, 6195-6199.	2.6	5
18	H/D Isotope Effects on the Short O-H...O Hydrogen Bond Geometries and Temperature-Dependent Polymorphism of Two Organic Salts Containing Hydrogen 2,3,5,6-Tetrafluorophthalate Monoanions. <i>Crystal Growth and Design</i> , 2021, 21, 2589-2595.	3.0	4

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19	2D Hydrogen-Bonded Molecular Crystals Showing Terminal-Group-Triggered Phase Transitions and Dielectric Responses. <i>Crystal Growth and Design</i> , 2021, 21, 5342-5348.	3.0	4
20	Orientalional ordering of guest induced structural phase transition coupled with switchable dielectric properties in a host-guest crystal: bis(thiourea) thiazolium chloride. <i>RSC Advances</i> , 2016, 6, 108028-108033.	3.6	2
21	DCM self-trapping by the host deformation in flexible host-guest molecules. <i>CrystEngComm</i> , 2021, 23, 4136-4142.	2.6	1
22	Reply to the "Comment on "1,4-Diazabicyclo[2.2.2]octane-based disalts showing non-centrosymmetric structures and phase transition behaviors" by M. Szafranski, <i>CrystEngComm</i> , 2017, 19, DOI: 10.1039/C6CE01469K. <i>CrystEngComm</i> , 2017, 19, 183-184.	2.6	0