

Xiang-Bin Han

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	Ferroic phase transition molecular crystals. <i>CrystEngComm</i> , 2022, 24, 1507-1517.	2.6	25
3	<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
4	DCM self-trapping by the host deformation in flexible host-guest molecules. <i>CrystEngComm</i> , 2021, 23, 4136-4142.	2.6	1
5	A ferroelastic molecular rotor crystal showing inverse temperature symmetry breaking. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2809-2816.	6.0	22
6	H/D Isotope Effects on the Short H \cdots H \cdots 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
7	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
8	Structural Design of Oxygen Reduction Redox Mediators (ORRMs) Based on Anthraquinone (AQ) for the Li-O ₂ Battery. <i>ACS Catalysis</i> , 2020, 10, 9790-9803.	11.2	20
9	Role of the π -site metal ion in the framework structures and dielectric transitions in host-guest type cyanometalates (Hlm) ₂ [Co(CN) ₆] (Hlm = imidazolium cation). <i>CrystEngComm</i> , 2020, 22, 1848-1852.	2.6	9
10	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
11	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
12	Structural phase transition-associated dielectric transition and ferroelectricity in coordination compounds. <i>Coordination Chemistry Reviews</i> , 2019, 378, 561-576.	18.8	124
13	Structural Phase Transitions and Dielectric Switching in a Series of Organic-Inorganic Hybrid Perovskites ABX ₃ (X=ClO ₄ ⁻ or BF ₄ ⁻). <i>Chemistry - A European Journal</i> , 2017, 23, 11126-11132.	3.3	32
14	Switchable Dielectric Constant in the Cyanometalate-Based Hydrogen-Bonded [(CH ₃) ₂ NH ₂] ₂ (H ₃ Tj)ETQqO ₀ O ₀ BT/Overlock 10 Tf	2.0	11
15	Organic-inorganic hybrid [H ₂ mdap][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
16	Reply to the Comment on α -1,4-Diazabicyclo[2.2.2]octane-based disalts showing non-centrosymmetric structures and phase transition behaviors α - β by M. Szafranski, <i>CrystEngComm</i> , 2017, 19, DOI: 10.1039/C6CE01469K. <i>CrystEngComm</i> , 2017, 19, 183-184.	2.6	0
17	Mixed Bromine-Chlorine Induced Great Dielectric and Second-Order Nonlinear Optical Properties Changes in Phase Transitions Compounds [H ₂ mdap][BiBr ₅ (1-x)Cl ₅ x] (x = 0.00-1.00). <i>Journal of Physical Chemistry C</i> , 2017, 121, 23039-23044.	3.1	14
18	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

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19	Water motion-controlled reversible phase transition and de/absorption-controlled reversible phase transformation in the hydrate crystal (BEDABCO)CLO ₄ ·H ₂ O and its analogs. CrystEngComm, 2016, 18, 6195-6199.	2.6	5
20	Tuning dielectric transitions by B ²⁺ -site mixing in hybrid double perovskite crystals (CH ₃ NH ₃) ₂ [K ^{1-x} Rb ^x Co(CN) ₆] (x = 0.23~0.62). Inorganic Chemistry Frontiers, 2016, 3, 1604-1608.	6.0	21
21	Orientalional ordering of guest induced structural phase transition coupled with switchable dielectric properties in a host-guest crystal: bis(thiourea) thiazolium chloride. RSC Advances, 2016, 6, 108028-108033.	3.6	2
22	1,4-Diazabicyclo[2.2.2]octane-based disalts showing non-centrosymmetric structures and phase transition behaviors. CrystEngComm, 2016, 18, 1563-1569.	2.6	14