

Fangfang Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Inorganic nonlinear optical materials. , 2023, , 3-44.		3
2	Achieving Short-Wavelength Phase-Matching Second Harmonic Generation in Boron-Rich Borosulfate with Planar [BO ₃] Units. Angewandte Chemie - International Edition, 2022, 61, .	13.8	50
3	Achieving Short-Wavelength Phase-Matching Second Harmonic Generation in Boron-Rich Borosulfate with Planar [BO ₃] Units. Angewandte Chemie, 2022, 134, e202112844.	2.0	3
4	Variable dimensionality of the anion framework in four new borophosphates and fluoroborophosphates with short cutoff edges. Dalton Transactions, 2022, 51, 2840-2845.	3.3	7
5	Sr ₃ B ₁₄ O ₂₄ : a new borate with a [B ₁₄ O ₃₀] fundamental building block and an unwonted 2D double layer. Dalton Transactions, 2022, 51, 618-623.	3.3	3
6	Pb ₂ Al ₂ B ₃ O ₈ F ₃ : structure and properties of a new fluoroaluminoborate with non-traditional chain-like B ₃ O ₈ groups. Dalton Transactions, 2022, 51, 3964-3969.	3.3	2
7	MM ² B ₃ O ₄ F ₃ (M = K; M ² = Na, K, Cs): Alkali-Metal Fluorooxoborates with [∞] [B ₃ O ₄ F ₃] Chains and Deep-Ultraviolet Cutoff Edges. Inorganic Chemistry, 2022, , .	4.0	7
8	LiB ₅ O ₅ F ₂ (OH) ₄ : A new deep-ultraviolet birefringent crystal with [B ₅ O ₅ F ₂ (OH) ₄] anionic group. Science China Materials, 2022, 65, 2585-2590.	6.3	11
9	Rb ₅ Ba ₂ (B ₁₀ O ₁₇) ₂ (BO ₂): The formation of unusual functional [BO ₂] in borates with deep-ultraviolet transmission window. Science China Chemistry, 2022, 65, 719-725.	8.2	25
10	Noncentrosymmetric Rare-Earth Borate Fluoride La ₂ B ₅ O ₉ F ₃ : A New Ultraviolet Nonlinear Optical Crystal with Enhanced Linear and Nonlinear Performance. ACS Applied Materials & Interfaces, 2022, 14, 18704-18712.	8.0	28
11	Promising Deep-Ultraviolet Birefringent Materials via Rational Design and Assembly of Planar [∞] [B(OH) ₃] and [B ₃ O ₃ (OH) ₃] Functional Species. Angewandte Chemie - International Edition, 2022, 61, .	13.8	34
12	(NH ₄) ₃ B ₁₁ PO ₁₉ F ₃ : a deep-UV nonlinear optical crystal with unique [B ₅ PO ₁₀ F] [∞] layers. National Science Review, 2022, 9, .	9.5	68
13	Sn ₁₄ O ₁₁ Br ₆ : a promising birefringent material with a [Sn ₁₄ O ₁₁ Br ₆] layer. Journal of Materials Chemistry C, 2021, 9, 7103-7109.	5.5	19
14	M ₃ B ₆ O ₁₀ NO ₃ (M ⁺ = K, Rb): Two New Alkali Metal Borate-Nitrates with Noncentrosymmetric Structures. European Journal of Inorganic Chemistry, 2021, 2021, 1297-1304.	2.0	12
15	Expanding the chemistry of borates with functional [BO ₂] anions. Nature Communications, 2021, 12, 2597.	12.8	99
16	RbB ₃ O ₄ F ₂ : a rubidium fluorooxoborate with an unprecedented [B ₃ O ₅ F ₂] ³⁺ functionalized unit and a large birefringence. Chemical Communications, 2020, 56, 15333-15336.	4.1	27
17	Ba ₃ (BO ₃)(CO ₃)F: The First Borate Carbonate Fluoride Synthesized by the High-Temperature Solution Method. Chemistry - A European Journal, 2020, 26, 16628-16632.	3.3	12
18	Structural Diversity of Molybdate Iodate and Fluoromolybdate: Syntheses, Structures, and Calculations on Na ₃ (MoO ₄)(IO ₃) and Na ₃ Cs(MoO ₂ F ₄) ₂ . Inorganic Chemistry, 2020, 59, 3034-3041.	4.0	13

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19	\hat{I}^{\pm} , \hat{I}^2 -Pb ₄ B ₂ O ₇ and \hat{I}^{\pm} , \hat{I}^2 -Pb ₄ B ₆ O ₁₃ : Polymorphism drives changes in structure and performance. <i>Science China Materials</i> , 2020, 63, 806-815.	6.3	13
20	Ba ₃ Ca ₄ (BO ₃) ₃ (SiO ₄)Cl: a new non-centrosymmetric complex alkaline-earth metal borosilicate chloride with a deep-ultraviolet cut-off edge. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2200-2208.	6.0	16
21	Nontoxic KBBF Family Member Zn ₂ BO ₃ (OH): Balance between Beneficial Layered Structure and Layer Tendency. <i>Advanced Science</i> , 2019, 6, 1901679.	11.2	56
22	A new barium fluorooxoborate BaB ₅ O ₈ F ₂ H ₂ O with large birefringence and a wide UV transparency window. <i>Dalton Transactions</i> , 2019, 48, 6714-6717.	3.3	23
23	BaB ₂ O ₃ F ₂ : A Barium Fluorooxoborate with a Unique [B ₂ O ₃ F] Layer and Short Cutoff Edge. <i>Chemistry - A European Journal</i> , 2019, 25, 6693-6697.	3.3	31
24	Sn ₂ B ₇ O ₁₂ F with a 2 \hat{a} ^z [B ₁₄ O ₂₄] ^{6\hat{a}⁺} layer constructed from the unprecedented [B ₇ O ₁₆] ^{11\hat{a}⁺} fundamental building block. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 996-1002.	6.0	17
25	K ₃ B ₆ O ₉ F ₃ : A New Fluorooxoborate with Four Different Anionic Units. <i>Chemistry - A European Journal</i> , 2018, 24, 4497-4502.	3.3	38
26	Frontispiece: K ₃ B ₆ O ₉ F ₃ : A New Fluorooxoborate with Four Different Anionic Units. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
27	MBaY ₆ O ₁₂ (M = Rb, Cs): two new rare-earth borates with large birefringence and short ultraviolet cutoff edges. <i>Dalton Transactions</i> , 2018, 47, 750-757.	3.3	28
28	Designing an Excellent Deep-Ultraviolet Birefringent Material for Light Polarization. <i>Journal of the American Chemical Society</i> , 2018, 140, 16311-16319.	13.7	350
29	Fluorooxoborates: Beryllium-Free Deep-Ultraviolet Nonlinear Optical Materials without Layered Growth. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3916-3919.	13.8	674
30	Fluorooxoborates: Beryllium-Free Deep-Ultraviolet Nonlinear Optical Materials without Layered Growth. <i>Angewandte Chemie</i> , 2017, 129, 3974-3977.	2.0	94
31	LiRb ₂ LaB ₂ O ₆ : a new rare-earth borate with a MOF-5-like topological structure and a short UV cut-off edge. <i>Dalton Transactions</i> , 2017, 46, 193-199.	3.3	10
32	Na ₂ B ₆ O ₉ F ₂ : A Fluoroborate with Short Cutoff Edge and Deep-Ultraviolet Birefringent Property Prepared by an Open High-Temperature Solution Method. <i>Inorganic Chemistry</i> , 2017, 56, 344-350.	4.0	92
33	CsB ₄ O ₆ F: A Congruent-Melting Deep-Ultraviolet Nonlinear Optical Material by Combining Superior Functional Units. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14119-14123.	13.8	654
34	CsB ₄ O ₆ F: A Congruent-Melting Deep-Ultraviolet Nonlinear Optical Material by Combining Superior Functional Units. <i>Angewandte Chemie</i> , 2017, 129, 14307-14311.	2.0	166
35	Finding the Next Deep-Ultraviolet Nonlinear Optical Material: NH ₄ B ₄ O ₆ F. <i>Journal of the American Chemical Society</i> , 2017, 139, 10645-10648.	13.7	889
36	Nonlinear optical response mechanism of noncentrosymmetric lead borate Pb ₆ [B ₄ O ₇ (OH) ₂] ₃ with three crystallographically independent [B ₄ O ₇ (OH) ₂] ^{4\hat{a}⁺} chains. <i>RSC Advances</i> , 2016, 6, 100849-100856.	3.6	6

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37	Hydrogen bond-assisted crystallization: structure, growth and characterization of a new mixed-anion transition metal fluoride $\text{Na}_3\text{NH}_4(\text{TiF}_6)_2\text{SO}_4 \cdot \text{H}_2\text{O}$. <i>New Journal of Chemistry</i> , 2016, 40, 7407-7413.	2.8	6
38	$\text{Li}_3\text{AlSiO}_5$: the first aluminosilicate as a potential deep-ultraviolet nonlinear optical crystal with the quaternary diamond-like structure. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4362-4369.	2.8	40
39	Synthesis, characterization and theoretical studies of nonlinear optical crystal $\text{Sr}_2\text{B}_5\text{O}_9(\text{OH}) \cdot \text{H}_2\text{O}$. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10489-10496.	2.8	26
40	$\text{Ba}(\text{dl-C}_4\text{H}_4\text{O}_5)$ An alkaline earth metal-dicarboxylate hybrid crystal with the synergy of multi-bonds. <i>Inorganic Chemistry Communication</i> , 2015, 61, 5-9.	3.9	3
41	Synthesis, Crystal Structure and Properties of the Strontium Vanadate Fluoride $\text{Sr}_5(\text{VO}_4)_3\text{F}$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1211-1215.	1.2	11
42	$\text{Na}_3\text{Ba}_2(\text{B}_3\text{O}_6)_2\text{F}$: Next Generation of Deep-Ultraviolet Birefringent Materials. <i>Crystal Growth and Design</i> , 2015, 15, 523-529.	3.0	159
43	Synthesis, crystal structure and properties of a new barium calcium borate, $\text{Ba}_2\text{Ca}_2(\text{B}_2\text{O}_5)_2$. <i>Solid State Sciences</i> , 2015, 39, 105-109.	3.2	5
44	$\text{Sr}_4\text{B}_{10}\text{O}_{18}(\text{OH})_2 \cdot 2\text{H}_2\text{O}$: a new UV nonlinear optical material with a $[\text{B}_{10}\text{O}_{23}]^{16-}$ building block. <i>Journal of Materials Chemistry C</i> , 2014, 2, 667-674.	5.5	52
45	$\text{Na}_2\text{Cd}_7\text{B}_8\text{O}_{20}$: a new noncentrosymmetric compound with special $[\text{B}_3\text{O}_7]$ units. <i>CrystEngComm</i> , 2013, 15, 3412.	2.6	18
46	Synthesis and Structure of KPbBP_2O_8 A Congruent Melting Borophosphate with Nonlinear Optical Properties. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3185-3190.	2.0	33
47	A new congruent-melting oxyborate, $\text{Pb}_4\text{O}(\text{BO}_3)_2$ with optimally aligned BO_3 triangles adopting layered-type arrangement. <i>Journal of Materials Chemistry</i> , 2012, 22, 2105-2110.	6.7	108
48	A novel deep UV nonlinear optical crystal $\text{Ba}_3\text{B}_6\text{O}_{11}\text{F}_2$, with a new fundamental building block, B_6O_{14} group. <i>Journal of Materials Chemistry</i> , 2012, 22, 9665.	6.7	177
49	Growth, thermal and optical properties of a novel nonlinear optical material $\text{K}_3\text{B}_6\text{O}_{10}\text{Cl}$. <i>CrystEngComm</i> , 2012, 14, 799-803.	2.6	53
50	Promising Deep-Ultraviolet Birefringent Materials via Rational Design and Assembly of Planar Conjugated $[\text{B}(\text{OH})_3]$ and $[\text{B}_3\text{O}_3(\text{OH})_3]$ Functional Species. <i>Angewandte Chemie</i> , 0, , .	2.0	2