

# Fangfang Zhang

## List of Publications by Year in descending order

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50  
papers

4,273  
citations

236925

25  
h-index

214800

47  
g-index

51  
all docs

51  
docs citations

51  
times ranked

932  
citing authors

#	ARTICLE	IF	CITATIONS
1	Finding the Next Deep-Ultraviolet Nonlinear Optical Material: $\text{NH}_4\text{B}_4\text{O}_6\text{F}$ . Journal of the American Chemical Society, 2017, 139, 10645-10648.	13.7	889
2	Fluorooxoborates: Beryllium-Free Deep-Ultraviolet Nonlinear Optical Materials without Layered Growth. Angewandte Chemie - International Edition, 2017, 56, 3916-3919.	13.8	674
3	$\text{CsB}_4\text{O}_6\text{F}$ : A Congruent-Melting Deep-Ultraviolet Nonlinear Optical Material by Combining Superior Functional Units. Angewandte Chemie - International Edition, 2017, 56, 14119-14123.	13.8	654
4	Designing an Excellent Deep-Ultraviolet Birefringent Material for Light Polarization. Journal of the American Chemical Society, 2018, 140, 16311-16319.	13.7	350
5	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, $\text{B}_6\text{O}_{14}$ group. Journal of Materials Chemistry, 2012, 22, 9665.	6.7	177
6	$\text{CsB}_4\text{O}_6\text{F}$ : A Congruent-Melting Deep-Ultraviolet Nonlinear Optical Material by Combining Superior Functional Units. Angewandte Chemie, 2017, 129, 14307-14311.	2.0	166
7	$\text{Na}_3\text{Ba}_2(\text{B}_3\text{O}_6)_2\text{F}$ : Next Generation of Deep-Ultraviolet Birefringent Materials. Crystal Growth and Design, 2015, 15, 523-529.	3.0	159
8	A new congruent-melting oxyborate, $\text{Pb}_4\text{O}(\text{BO}_3)_2$ with optimally aligned $\text{BO}_3$ triangles adopting layered-type arrangement. Journal of Materials Chemistry, 2012, 22, 2105-2110.	6.7	108
9	Expanding the chemistry of borates with functional $[\text{BO}_2]^-$ anions. Nature Communications, 2021, 12, 2597.	12.8	99
10	Fluorooxoborates: Beryllium-Free Deep-Ultraviolet Nonlinear Optical Materials without Layered Growth. Angewandte Chemie, 2017, 129, 3974-3977.	2.0	94
11	$\text{Na}_2\text{B}_6\text{O}_9\text{F}_2$ : A Fluoroborate with Short Cutoff Edge and Deep-Ultraviolet Birefringent Property Prepared by an Open High-Temperature Solution Method. Inorganic Chemistry, 2017, 56, 344-350.	4.0	92
12	$(\text{NH}_4)_3\text{B}_{11}\text{PO}_{19}\text{F}_3$ : a deep-UV nonlinear optical crystal with unique $[\text{B}_5\text{PO}_{10}]^{\sim}$ layers. National Science Review, 2022, 9, .	9.5	68
13	Nontoxic KBBF Family Member $\text{Zn}_2\text{BO}_3(\text{OH})$ : Balance between Beneficial Layered Structure and Layer Tendency. Advanced Science, 2019, 6, 1901679.	11.2	56
14	Growth, thermal and optical properties of a novel nonlinear optical material $\text{K}_3\text{B}_6\text{O}_{10}\text{Cl}$ . CrystEngComm, 2012, 14, 799-803.	2.6	53
15	$\text{Sr}_4\text{B}_{10}\text{O}_{18}(\text{OH})_2 \cdot 2\text{H}_2\text{O}$ : a new UV nonlinear optical material with a $[\text{B}_{10}\text{O}_{23}]^{16-}$ building block. Journal of Materials Chemistry C, 2014, 2, 667-674.	5.5	52
16	Achieving Short-Wavelength Phase-Matching Second Harmonic Generation in Boron-Rich Borosulfate with Planar $[\text{BO}_3]$ Units. Angewandte Chemie - International Edition, 2022, 61, .	13.8	50
17	$\text{Li}_3\text{AlSiO}_5$ : the first aluminosilicate as a potential deep-ultraviolet nonlinear optical crystal with the quaternary diamond-like structure. Physical Chemistry Chemical Physics, 2016, 18, 4362-4369.	2.8	40
18	$\text{K}_3\text{B}_6\text{O}_9\text{F}_3$ : A New Fluorooxoborate with Four Different Anionic Units. Chemistry - A European Journal, 2018, 24, 4497-4502.	3.3	38

#	ARTICLE	IF	CITATIONS
19	Promising Deep-Ultraviolet Birefringent Materials via Rational Design and Assembly of Planar Conjugated $[B(OH)_3]$ and $[B_3O_3(OH)_3]$ Functional Species. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	34
20	Synthesis and Structure of $KPb_2O_8$ – A Congruent Melting Borophosphate with Nonlinear Optical Properties. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3185-3190.	2.0	33
21	$Ba_2O_3F_2$ : A Barium Fluorooxoborate with a Unique $[B_2O_3F]$ Layer and Short Cutoff Edge. <i>Chemistry - A European Journal</i> , 2019, 25, 6693-6697.	3.3	31
22	$MBaYB_6O_{12}$ (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
23	Noncentrosymmetric Rare-Earth Borate Fluoride $La_2B_5O_9F_3$ : A New Ultraviolet Nonlinear Optical Crystal with Enhanced Linear and Nonlinear Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 18704-18712.	8.0	28
24	$RbB_3O_4F_2$ : a rubidium fluorooxoborate with an unprecedented $[B_3O_5F_2]^{3-}$ functionalized unit and a large birefringence. <i>Chemical Communications</i> , 2020, 56, 15333-15336.	4.1	27
25	Synthesis, characterization and theoretical studies of nonlinear optical crystal $Sr_2B_5O_9(OH) \cdot H_2O$ . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10489-10496.	2.8	26
26	$Rb_5Ba_2(B_{10}O_{17})_2(BO_2)$ : The formation of unusual functional $[BO_2]^-$ in borates with deep-ultraviolet transmission window. <i>Science China Chemistry</i> , 2022, 65, 719-725.	8.2	25
27	A new barium fluorooxoborate $BaB_5O_8F \cdot xH_2O$ with large birefringence and a wide UV transparency window. <i>Dalton Transactions</i> , 2019, 48, 6714-6717.	3.3	23
28	$Sn_{14}O_{11}Br_6$ : a promising birefringent material with a $[Sn_{14}O_{11}Br_6]$ layer. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7103-7109.	5.5	19
29	$Na_2Cd_7B_8O_{20}$ : a new noncentrosymmetric compound with special $[B_3O_7]$ units. <i>CrystEngComm</i> , 2013, 15, 3412.	2.6	18
30	$Sn_2B_7O_{12}F$ with a $2^- [B_{14}O_{24}]^{6-}$ layer constructed from the unprecedented $[B_7O_{16}]^{11-}$ fundamental building block. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 996-1002.	6.0	17
31	$Ba_3Ca_4(BO_3)_3(SiO_4)Cl$ : 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
32	Structural Diversity of Molybdate Iodate and Fluoromolybdate: Syntheses, Structures, and Calculations on $Na_3(MoO_4)(IO_3)$ and $Na_3Cs(MoO_2F_4)_2$ . <i>Inorganic Chemistry</i> , 2020, 59, 3034-3041.	4.0	13
33	$\hat{I}^\pm$ , $\hat{I}^2$ - $Pb_4B_2O_7$ and $\hat{I}^\pm$ , $\hat{I}^2$ - $Pb_4B_6O_{13}$ : Polymorphism drives changes in structure and performance. <i>Science China Materials</i> , 2020, 63, 806-815.	6.3	13
34	$Ba_3(BO_3)(CO_3)F$ : The First Borate Carbonate Fluoride Synthesized by the High-Temperature Solution Method. <i>Chemistry - A European Journal</i> , 2020, 26, 16628-16632.	3.3	12
35	$M_3B_6O_{10}NO_3$ (M = ... = ...K, Rb): Two New Alkali Metal Borate Nitrates with Noncentrosymmetric Structures. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1297-1304.	2.0	12
36	Synthesis, Crystal Structure and Properties of the Strontium Vanadate Fluoride $Sr_5(VO_4)_3F$ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1211-1215.	1.2	11

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37	LiB <sub>5</sub> O <sub>5</sub> F <sub>2</sub> (OH) <sub>4</sub> : A new deep-ultraviolet birefringent crystal with [B <sub>5</sub> O <sub>5</sub> F <sub>2</sub> (OH) <sub>4</sub> ] anionic group. Science China Materials, 2022, 65, 2585-2590.	6.3	11
38	LiRb <sub>2</sub> LaB <sub>2</sub> O <sub>6</sub> : a new rare-earth borate with a MOF-5-like topological structure and a short UV cut-off edge. Dalton Transactions, 2017, 46, 193-199.	3.3	10
39	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
40	MM <sup>2</sup> B <sub>3</sub> O <sub>4</sub> F <sub>3</sub> (M = K; M <sup>2</sup> = Na, K, Cs): Alkali-Metal Fluorooxoborates with $\infty^1$ [B <sub>3</sub> O <sub>4</sub> F <sub>3</sub> ] Chains and Deep-Ultraviolet Cutoff Edges. Inorganic Chemistry, 2022, , .	4.0	7
41	Nonlinear optical response mechanism of noncentrosymmetric lead borate Pb <sub>6</sub> [B <sub>4</sub> O <sub>7</sub> (OH) <sub>2</sub> ] <sub>3</sub> with three crystallographically independent [B <sub>4</sub> O <sub>7</sub> (OH) <sub>2</sub> ] <sup>4-</sup> chains. RSC Advances, 2016, 6, 100010-100016.	3.6	6
42	Hydrogen bond-assisted crystallization: structure, growth and characterization of a new mixed-anion transition metal fluoride Na <sub>3</sub> NH <sub>4</sub> (TiF <sub>6</sub> )(SO <sub>4</sub> ) $\cdot$ 2H <sub>2</sub> O. New Journal of Chemistry, 2016, 40, 7407-7413.	2.8	6
43	Synthesis, crystal structure and properties of a new barium calcium borate, Ba <sub>2</sub> Ca <sub>2</sub> (B <sub>2</sub> O <sub>5</sub> ) <sub>2</sub> . Solid State Sciences, 2015, 39, 105-109.	3.2	5
44	Ba(dl-C <sub>4</sub> H <sub>4</sub> O <sub>5</sub> ) <sup>2-</sup> An alkaline earth metal-dicarboxylate hybrid crystal with the synergy of multi-bonds. Inorganic Chemistry Communication, 2015, 61, 5-9.	3.9	3
45	Achieving Short-Wavelength Phase-Matching Second Harmonic Generation in Boron-Rich Borosulfate with Planar [BO <sub>3</sub> ] Units. Angewandte Chemie, 2022, 134, e202112844.	2.0	3
46	Sr <sub>3</sub> B <sub>14</sub> O <sub>24</sub> : a new borate with a [B <sub>14</sub> O <sub>30</sub> ] fundamental building block and an unwonted 2D double layer. Dalton Transactions, 2022, 51, 618-623.	3.3	3
47	Inorganic nonlinear optical materials. , 2023, , 3-44.		3
48	Pb <sub>2</sub> Al <sub>2</sub> B <sub>3</sub> O <sub>8</sub> F <sub>3</sub> : structure and properties of a new fluoroaluminoborate with non-traditional chain-like B <sub>3</sub> O <sub>8</sub> groups. Dalton Transactions, 2022, 51, 3964-3969.	3.3	2
49	Promising Deep-Ultraviolet Birefringent Materials via Rational Design and Assembly of Planar $\pi$ -Conjugated [B(OH) <sub>3</sub> ] and [B <sub>3</sub> O <sub>3</sub> (OH) <sub>3</sub> ] Functional Species. Angewandte Chemie, 0, , .	2.0	2
50	Frontispiece: K <sub>3</sub> B <sub>6</sub> O <sub>9</sub> F <sub>3</sub> : A New Fluorooxoborate with Four Different Anionic Units. Chemistry - A European Journal, 2018, 24, .	3.3	0