

Min Zhang

List of Publications by Year in descending order

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86
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147566

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all docs

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docs citations

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times ranked

1478
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#	ARTICLE	IF	CITATIONS
1	SrB ₅ O ₇ F ₃ Functionalized with [B ₅ O ₉ F ₃] ⁶⁺ Chromophores: Accelerating the Rational Design of Deep-Ultraviolet Nonlinear Optical Materials. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6095-6099.	7.2	581
2	Designing an Excellent Deep-Ultraviolet Birefringent Material for Light Polarization. <i>Journal of the American Chemical Society</i> , 2018, 140, 16311-16319.	6.6	350
3	Targeting the Next Generation of Deep-Ultraviolet Nonlinear Optical Materials: Expanding from Borates to Borate Fluorides to Fluorooxoborates. <i>Accounts of Chemical Research</i> , 2019, 52, 791-801.	7.6	315
4	Ba ₃ Mg ₃ (BO ₃) ₃ F ₃ polymorphs with reversible phase transition and high performances as ultraviolet nonlinear optical materials. <i>Nature Communications</i> , 2018, 9, 3089.	5.8	314
5	Chemical Cosubstitution-Oriented Design of Rare-Earth Borates as Potential Ultraviolet Nonlinear Optical Materials. <i>Journal of the American Chemical Society</i> , 2017, 139, 18397-18405.	6.6	187
6	Pb ₁₇ O ₈ Cl ₁₈ : A Promising IR Nonlinear Optical Material with Large Laser Damage Threshold Synthesized in an Open System. <i>Journal of the American Chemical Society</i> , 2015, 137, 8360-8363.	6.6	181
7	Rational Design via Synergistic Combination Leads to an Outstanding Deep-Ultraviolet Birefringent Li ₂ Na ₂ B ₂ O ₅ Material with an Unvalued B ₂ O ₅ Functional Gene. <i>Journal of the American Chemical Society</i> , 2019, 141, 3258-3264.	6.6	177
8	Na ₃ Ba ₂ (B ₃ O ₆) ₂ F: Next Generation of Deep-Ultraviolet Birefringent Materials. <i>Crystal Growth and Design</i> , 2015, 15, 523-529.	1.4	159
9	Simulated pressure-induced blue-shift of phase-matching region and nonlinear optical mechanism for K ₃ B ₆ O ₁₀ X (X = Cl, Br). <i>Applied Physics Letters</i> , 2015, 106, .	1.5	121
10	Bi ₃ O ₃ (IO ₃) ₄ : Metal Oxyiodate Fluoride Featuring a Carbon-Nanotube-like Topological Structure with Large Second Harmonic Generation Response. <i>Chemistry of Materials</i> , 2017, 29, 945-949.	3.2	112
11	SrB ₅ O ₇ F ₃ Functionalized with [B ₅ O ₉ F ₃] ⁶⁺ Chromophores: Accelerating the Rational Design of Deep-Ultraviolet Nonlinear Optical Materials. <i>Angewandte Chemie</i> , 2018, 130, 6203-6207.	1.6	108
12	A Bulk Boron-Based Photocatalyst for Efficient Dechlorination: K ₃ B ₆ O ₁₀ Br. <i>Chemistry of Materials</i> , 2014, 26, 3169-3174.	3.2	97
13	Crystal growth and optical properties of a noncentrosymmetric haloid borate, K ₃ B ₆ O ₁₀ Br. <i>CrystEngComm</i> , 2011, 13, 2899.	1.3	82
14	Cs ₄ Mo ₅ P ₂ O ₂₂ : a first Strandberg-type POM with 1D straight chains of polymerized [Mo ₅ P ₂ O ₂₃] ⁶⁺ units and moderate second harmonic generation response. <i>Chemical Communications</i> , 2013, 49, 306-308.	2.2	74
15	Linear and Nonlinear Optical Properties of K ₃ B ₆ O ₁₀ Br Single Crystal: Experiment and Calculation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11849-11856.	1.5	73
16	A Series of Rare-Earth Borates K ₇ MRE ₂ B ₁₅ O ₃₀ (M =) Tj ETQq0 0 0 rgBT /Overlock 1 Materials, 2018, 30, 2414-2423.	3.2	73
17	Functional Materials Design via Structural Regulation Originated from Ions Introduction: A Study Case in Cesium Iodate System. <i>Chemistry of Materials</i> , 2018, 30, 1136-1145.	3.2	72
18	Na ₃ Cd ₃ B(PO ₄) ₄ : A New Noncentrosymmetric Borophosphate with Zero-Dimensional Anion Units. <i>Inorganic Chemistry</i> , 2012, 51, 10870-10875.	1.9	71

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19	The first lead fluorooxoborate $\text{Pb}_5\text{O}_8\text{F}$: achieving the coexistence of large birefringence and deep-ultraviolet cut-off edge. <i>Chemical Communications</i> , 2018, 54, 6308-6311.	2.2	70
20	A New Lithium Rubidium Borate $\text{Li}_6\text{Rb}_5\text{B}_{11}\text{O}_{22}$ with Isolated $\text{B}_{11}\text{O}_{22}$ Building Blocks. <i>Crystal Growth and Design</i> , 2011, 11, 3912-3916.	1.4	64
21	Oxyhalides: prospecting ore for optical functional materials with large laser damage thresholds. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2435-2442.	2.7	56
22	Synthesis, crystal structures and optical properties of two congruent-melting isotypic diphosphates: $\text{LiM}_3\text{P}_2\text{O}_7$ (M=Na, K). <i>Journal of Solid State Chemistry</i> , 2013, 197, 128-133.	1.4	55
23	$\text{Sr}_4\text{B}_{10}\text{O}_{18}(\text{OH})_2 \cdot 2\text{H}_2\text{O}$: 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.	2.7	52
24	$\text{Ce}(\text{IO}_3)_2\text{F}_2 \cdot \text{H}_2\text{O}$: The First Rare-Earth Metal Iodate Fluoride with Large Second Harmonic Generation Response. <i>Chemistry - A European Journal</i> , 2019, 25, 1221-1226.	1.7	46
25	$\text{Ba}_2\text{B}_{10}\text{O}_{17}$: a new centrosymmetric alkaline-earth metal borate with a deep-UV cut-off edge. <i>Dalton Transactions</i> , 2014, 43, 8905-8910.	1.6	44
26	$\text{Q}_{18}\text{Mg}_6(\text{B}_5\text{O}_{10})_3(\text{B}_7\text{O}_{14})_2$ (Q=Rb and Cs): New Borates Containing Two Large Isolated Polyborate Anions with Similar Topological Structures. <i>Chemistry - A European Journal</i> , 2015, 21, 1414-1419.	1.7	39
27	$\text{Li}_4\text{Na}_2\text{CsB}_7\text{O}_{14}$: a new edge-sharing $[\text{BO}_4]^{5-}$ tetrahedra containing borate with high anisotropic thermal expansion. <i>Chemical Communications</i> , 2019, 55, 1295-1298.	2.2	39
28	BaClBF_4 : a new noncentrosymmetric pseudo-Aurivillius type material with transparency range from deep UV to middle IR and a high laser damage threshold. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4740.	2.7	36
29	$\text{K}_2\text{Na}(\text{IO}_3)_2(\text{I}_3\text{O}_8)$ with Strong Second Harmonic Generation Response Activated by Two Types of Isolated Iodate Anions. <i>Chemistry of Materials</i> , 2020, 32, 3608-3614.	3.2	36
30	Synthesis, crystal growth and characterization of a new noncentrosymmetric borophosphate: $\text{RbPbBP}_2\text{O}_8$. <i>CrystEngComm</i> , 2013, 15, 4956.	1.3	35
31	Synthesis, crystal structure and optical properties of the new lead fluoride borate $\text{Pb}_2\text{BO}_3\text{F}$. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2849-2853.	1.4	34
32	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 - International Edition</i> , 2022, 61, .	7.2	34
33	New Molybdenum(VI) Phosphates: Synthesis, Characterization, and Calculations of Centrosymmetric $\text{RbMoO}_2\text{PO}_4$ and Noncentrosymmetric $\text{Rb}_4\text{Mo}_5\text{P}_2\text{O}_{22}$. <i>Inorganic Chemistry</i> , 2013, 52, 1488-1495.	1.9	31
34	The mechanism of large second harmonic generation enhancement activated by Zn^{2+} substitution. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32931-32936.	1.3	31
35	$\text{Ba}_{n+2}\text{Zn}_n(\text{BO}_3)_n(\text{B}_2\text{O}_5)_n\text{F}_n$ $T_j\text{ETQq}_1$ <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 281-288.	3.0	29
36	Structural insights for the design of new borate-phosphates: synthesis, crystal structure and optical properties of $\text{Pb}_4\text{O}(\text{BO}_3)(\text{PO}_4)$ and $\text{Bi}_4\text{O}_3(\text{BO}_3)(\text{PO}_4)$. <i>Dalton Transactions</i> , 2014, 43, 12886-12893.	1.6	28

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37	Effects of the Orientation of [B ₅ O ₁₁] ⁷⁻ Fundamental Building Blocks on Layered Structures Based on the Pentaborates. <i>Inorganic Chemistry</i> , 2016, 55, 10608-10616.	1.9	27
38	Na ₈ MB ₂₁ O ₃₆ (M = Rb and Cs): Noncentrosymmetric Borates with Unprecedented [B ₂₁ O ₃₆] ⁹⁻ Fundamental Building Blocks. <i>Inorganic Chemistry</i> , 2017, 56, 5506-5509.	1.9	27
39	Top seeded solution growth and optical properties of a bromic borate crystal: K ₃ B ₆ O ₁₀ Br. <i>Materials Letters</i> , 2012, 68, 374-377.	1.3	26
40	Sr ₃ B ₆ O ₁₁ F ₂ : a promising polar fluoroborate with short UV absorption edge and moderate second harmonic generation response. <i>Scripta Materialia</i> , 2013, 69, 449-452.	2.6	25
41	Synthesis, crystal structure and optical properties of a novel sodium lead pentaborate, NaPbB ₅ O ₉ . <i>Journal of Solid State Chemistry</i> , 2011, 184, 825-829.	1.4	24
42	Structural Insights into Borates with an Anion-templated Open-framework Configuration: Asymmetric K ₂ BaB ₁₆ O ₂₆ versus Centrosymmetric K ₃ CsB ₂₀ O ₃₂ and Na ₂ M ₂ NB ₁₈ O ₃₀ (M=Rb, Cs; N=Ba, Pb). <i>Chemistry - A European Journal</i> , 2017, 23, 13910-13918.	1.7	24
43	Li ₅ Rb ₂ B ₇ O ₁₄ : a new congruently melting compound with two kinds of B-O one-dimensional chains and short UV absorption edge. <i>CrystEngComm</i> , 2012, 14, 6720.	1.3	23
44	K ₇ B ₂ P ₅ O ₁₉ : a novel alkali metal borophosphate with zero dimensional [B ₂ P ₅ O ₁₉] ⁷⁻ anionic units. <i>CrystEngComm</i> , 2014, 16, 6848-6851.	1.3	22
45	Exploring the influence of cationic skeletons on the arrangement of isolated BO ₃ groups based on RbMgBO ₃ , CsZn ₄ (BO ₃) ₃ and Cs ₄ Mg ₄ (BO ₃) ₄ . <i>New Journal of Chemistry</i> , 2014, 38, 3035-3041.	1.4	22
46	Li ₂ Sr ₄ B ₁₂ O ₂₃ : A new alkali and alkaline-earth metal mixed borate with [B ₁₀ O ₁₈] ⁶⁻ network and isolated [B ₂ O ₅] ⁴⁻ unit. <i>Journal of Solid State Chemistry</i> , 2012, 190, 92-97.	1.4	21
47	Li _{0.8} Mg _{2.1} B ₂ O ₅ F: the first borate fluoride with magnesium-oxygen-fluorine octahedral chains. <i>Dalton Transactions</i> , 2014, 43, 2828-2834.	1.6	19
48	Versatile Coordination Mode of LiNaB ₈ O ₁₃ and $\bar{1}2$ - and $\bar{1}2$ -LiKB ₈ O ₁₃ via the Flexible Assembly of Four-Connected B ₅ O ₁₀ and B ₃ O ₇ Groups. <i>Inorganic Chemistry</i> , 2016, 55, 552-554.	1.9	17
49	Li ₆ Zn ₃ (BO ₃) ₄ : a new zincoborate featuring vertex-, edge- and face-sharing LiO ₄ tetrahedra and exhibiting reversible phase transitions. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1100-1107.	3.0	17
50	Exploration of a new compound in the M-O-X (M: alkali metals; X: halogen) system: Preparation, crystal and electronic structures, and optical properties of Na ₃ B ₆ O ₁₀ Br. <i>Inorganica Chimica Acta</i> , 2013, 406, 205-210.	1.2	16
51	A new polymorph of Cd ₃ B ₂ O ₆ : synthesis, crystal structure and phase transformation. <i>RSC Advances</i> , 2014, 4, 13195-13200.	1.7	16
52	Growth, crystal structure and optical properties of layered dibarium cadmium diborate, Ba ₂ Cd(BO ₃) ₂ . <i>Journal of Alloys and Compounds</i> , 2011, 509, 6696-6699.	2.8	14
53	The structural diversity of halogen-centered secondary building units: two new mixed-metal borate halides with deep-ultraviolet cut-off edges. <i>Dalton Transactions</i> , 2017, 46, 4923-4928.	1.6	14
54	BaLiZn ₃ (BO ₃) ₃ : a new member of the KB ₂ BO ₃ F ₂ family possessing dense BO ₃ triangles and the smallest interlayer distance. <i>New Journal of Chemistry</i> , 2018, 42, 12365-12368.	1.4	14

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73	Manipulation of birefringence via substitution of Sr ²⁺ by Pb ²⁺ based on the structure model of LiSr _{1-x} Pb _x BO ₃ (0 ≤ x ≤ 0.5). <i>New Journal of Chemistry</i> , 2016, 40, 6120-6126.	1.4	5
74	K ₆ (IO ₆ H ₄)(Hl ₂ O ₆)(HIO ₃) ₂ (IO ₃) ₃ . A Case of Iodate with Coexisting [I ⁵⁺ O ₃] and [I ⁷⁺ O ₆] Units. <i>Inorganic Chemistry</i> , 2022, 61, 688-692.	1.9	5
75	BaPbSi ₂ O ₆ ·BaSO ₄ : the first mixed anionic compound synthesized via BaSO ₄ salt-inclusion. <i>CrystEngComm</i> , 2014, 16, 5993-5996.	1.3	4
76	Broadband optical parametric chirped pulse amplification in K3B6O10Br crystal near 800 nm. <i>Laser Physics Letters</i> , 2017, 14, 095403.	0.6	4
77	A 355Ånm ultraviolet femtosecond laser through second harmonic generation using K3B6O10Br nonlinear optical crystal. <i>Optical Materials</i> , 2020, 107, 110088.	1.7	4
78	RbPb8O4Cl9: the first alkali metal lead oxyhalide with distorted [PbO3Cl3] and [PbOCl5] mixed-anion groups. <i>Dalton Transactions</i> , 2021, 50, 14038-14043.	1.6	4
79	Pb _{2.28} Ba _{1.72} B ₁₀ O ₁₉ featuring a three-dimensional B–O anionic network with edge-sharing [BO ₄] obtained under ambient pressure. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3716-3722.	3.0	4
80	A new broad-band infrared window material CdPbOCl ₂ with excellent comprehensive properties. <i>Dalton Transactions</i> , 2021, 50, 16401-16405.	1.6	4
81	Ba ₂ B ₅ O ₈ (OH) ₂ (NO ₃) ₃ ·3H ₂ O: the design of an alkaline earth metal borate-nitrate optimized from a hydroxylic borate. <i>Dalton Transactions</i> , 2022, 51, 1979-1984.	1.6	3
82	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. <i>Dalton Transactions</i> , 2022, 51, 3964-3969.	1.6	2
83	Flux Growth and Properties of Volatile Bromine-Containing UV Nonlinear Optical Crystal K3B6O10Br. <i>Crystals</i> , 2022, 12, 33.	1.0	2
84	Promising Deep-Ultraviolet Birefringent Materials via Rational Design and Assembly of Planar Conjugated [B(OH) ₃] and [B ₃ O ₃ (OH) ₃] Functional Species. <i>Angewandte Chemie</i> , 0, , .	1.6	2
85	355 nm Ultraviolet Nanosecond Lasers Produced by Frequency Doubling in K3B6O10Br Nonlinear Optical Crystal. <i>Journal of Russian Laser Research</i> , 2020, 41, 246-249.	0.3	1
86	Frontispiece: Structural Insights into Borates with an Anion-templated Open Framework Configuration: Asymmetric K ₂ BaB ₁₆ O ₂₆ versus Centrosymmetric K ₃ CsB ₂₀ O ₃₂ and Na ₂ M ₂ NB ₁₈ O ₃₀ (M=Rb, Cs; N=Ba, Pb). <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	0