Min Zhang

List of Publications by Year
in descending order

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86	4,488	147566 31	106150 65
papers	citations	h-index	g-index

102	102	102	1478
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polymorphic Pb14O8I12 and Pb7O4I6 oxyhalides featuring unprecedented [O8Pb14] clusters with broad IR transparency. Science China Materials, 2022, 65, 773-779.	3.5	7
2	From Î²â€Na₂B₆O₁₀ to Na₃AlB₈O₁₅ and Na₃Al₂B₇O₁₅: Structural Tuning of Anionicâ€Group Architectures by Substitution of [BO₄] by [AlO₄] Covalent Tetrahedra. Chemistry - A European Journal, 2022, 28, .	1.7	7
3	Ba₂B₅O₈(OH)₂(NO₃)Â·3H₂O: the design of an alkaline earth metal borate-nitrate optimized from a hydroxylic borate. Dalton Transactions, 2022, 51, 1979-1984.	1.6	3
4	Pb₂Al₂B₃O₈F₃: structure and properties of a new fluoroaluminoborate with non-traditional chain-like B₃O₈ groups. Dalton Transactions, 2022, 51, 3964-3969.	1.6	2
5	Flux Growth and Properties of Volatile Bromine-Containing UV Nonlinear Optical Crystal K3B6O10Br. Crystals, 2022, 12, 33.	1.0	2
6	K₆(IO₆H₄)(HI₂O₆)(HIO₃)₂(IO₃ A Case of Iodate with Coexisting [I⁵⁺O₃] and [I⁷⁺O₆] Units. Inorganic Chemistry, 2022, 61, 688-692.	1.9	5
7	Promising Deepâ€Ultraviolet Birefringent Materials via Rational Design and Assembly of Planar Ïâ€Conjugated [B(OH)₃] and [B₃O₃(OH)₃] Functional Species. Angewandte Chemie - International Edition, 2022, 61, .	7.2	34
8	CsAB₈O₁₂F₂Â·CsI (A = K⁺,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (NH<sub> structuresviaa salt-inclusion strategy. Journal of Materials Chemistry C, 2022, 10, 8584-8588.	2.7	12
9	Na3AMg7(PO4)6 (AÂ=ÂK, Rb and Cs): Structures, properties and theoretical studies of alkali metal magnesium orthophosphates. Journal of Molecular Structure, 2021, 1226, 129349.	1.8	9
10	RbPb8O4Cl9: the first alkali metal lead oxyhalide with distorted [PbO3Cl3] and [PbOCl5] mixed-anion groups. Dalton Transactions, 2021, 50, 14038-14043.	1.6	4
11	Pb_{2.28}Ba_{1.72}B₁₀O₁₉ featuring a three-dimensional Bâ€“O anionic network with edge-sharing [BO₄] obtained under ambient pressure. Inorganic Chemistry Frontiers, 2021, 8, 3716-3722.	3.0	4
12	Sn₃B₈O₁₅: A Ternary Tin(II) Borate with Flexible [B₈O₁₈]^{12â€“} Fundamental Building Block Formed by [B₇O₁₆]^{11â€“} and [BO₃]^{3â€“} Groups. Inorganic Chemistry, 2021, 60, 883-891.	1.9	8
13	A new broad-band infrared window material CdPbOCl2 with excellent comprehensive properties. Dalton Transactions, 2021, 50, 16401-16405.	1.6	4
14	355 nm Ultraviolet Nanosecond Lasers Produced by Frequency Doubling in K3B6O10Br Nonlinear Optical Crystal. Journal of Russian Laser Research, 2020, 41, 246-249.	0.3	1
15	K₂Na(IO₃)₂(I₃O₈) with Strong Second Harmonic Generation Response Activated by Two Types of Isolated Iodate Anions. Chemistry of Materials, 2020, 32, 3608-3614.	3.2	36
16	A 355Ânm ultraviolet femtosecond laser through second harmonic generation using K3B6O10Br nonlinear optical crystal. Optical Materials, 2020, 107, 110088.	1.7	4
17	Research and Development of Zincoborates: Crystal Growth, Structural Chemistry and Physicochemical Properties. Molecules, 2019, 24, 2763.	1.7	14
18	Li₄Na₂CsB₇O₁₄: a new edge-sharing [BO₄]^{5â^’} tetrahedra containing borate with high anisotropic thermal expansion. Chemical Communications, 2019, 55, 1295-1298.	2.2	39

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19	Targeting the Next Generation of Deep-Ultraviolet Nonlinear Optical Materials: Expanding from Borates to Borate Fluorides to Fluorooxoborates. Accounts of Chemical Research, 2019, 52, 791-801.	7.6	315
20	Ce(IO₃)₂F₂â‹…H₂O: The First Rareâ€Earthâ€Metal Iodate Fluoride with Large Second Harmonic Generation Response. Chemistry - A European Journal, 2019, 25, 1221-1226.	1.7	46
21	Rational Design via Synergistic Combination Leads to an Outstanding Deep-Ultraviolet Birefringent Li₂Na₂B₂O₅ Material with an Unvalued B₂O₅ Functional Gene. Journal of the American Chemical Society, 2019, 141, 3258-3264.	6.6	177
22	SrB₅O₇F₃ Functionalized with [B₅O₉F₃]^{6â^'} Chromophores: Accelerating the Rational Design of Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie, 2018, 130, 6203-6207.	1.6	108
23	A Series of Rare-Earth Borates K₇MRE₂B₁₅O₃₀ (M =) Tj ETQq1 1 0.784314 rgBT O Materials, 2018, 30, 2414-2423.	3.2	73
24	SrB₅O₇F₃ Functionalized with [B₅O₉F₃]^{6â^'} Chromophores: Accelerating the Rational Design of Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie - International Edition, 2018, 57, 6095-6099.	7.2	581
25	Ba₂ZnSc(BO₃)₃and Ba₄Zn₅Sc₂(BO₃)₈: first examples of borates in the Znâ€“Scâ€“Bâ€“O system featuring special structure configurations. Inorganic Chemistry Frontiers, 2018, 5, 1787-1794.	3.0	12
26	Functional Materials Design via Structural Regulation Originated from Ions Introduction: A Study Case in Cesium Iodate System. Chemistry of Materials, 2018, 30, 1136-1145.	3.2	72
27	Oxyhalides: prospecting ore for optical functional materials with large laser damage thresholds. Journal of Materials Chemistry C, 2018, 6, 2435-2442.	2.7	56
28	Designing an Excellent Deep-Ultraviolet Birefringent Material for Light Polarization. Journal of the American Chemical Society, 2018, 140, 16311-16319.	6.6	350
29	Li₂BaSc(BO₃)₂F and LiBa₂Pb(BO₃)₂F with Layered Structures featuring Special Liâ^'O/F Configurations. Chemistry - A European Journal, 2018, 24, 15477-15481.	1.7	8
30	The first lead fluorooxoborate PbB₅O₈F: achieving the coexistence of large birefringence and deep-ultraviolet cut-off edge. Chemical Communications, 2018, 54, 6308-6311.	2.2	70
31	BaLiZn₃(BO₃)₃: a new member of the KBe₂BO₃F₂family possessing dense BO₃triangles and the smallest interlayer distance. New Journal of Chemistry, 2018, 42, 12365-12368.	1.4	14
32	Ba3Mg3(BO3)3F3 polymorphs with reversible phase transition and high performances as ultraviolet nonlinear optical materials. Nature Communications, 2018, 9, 3089.	5.8	314
33	Bi₃OF₃(IO₃)₄: Metal Oxyiodate Fluoride Featuring a Carbon-Nanotube-like Topological Structure with Large Second Harmonic Generation Response. Chemistry of Materials, 2017, 29, 945-949.	3.2	112
34	The structural diversity of halogen-centered secondary building units: two new mixed-metal borate halides with deep-ultraviolet cut-off edges. Dalton Transactions, 2017, 46, 4923-4928.	1.6	14
35	Na₈MB₂₁O₃₆ (M = Rb and Cs): Noncentrosymmetric Borates with Unprecedented [B₂₁O₃₆]^{9â€“} Fundamental Building Blocks. Inorganic Chemistry, 2017, 56, 5506-5509.	1.9	27
36	Ba_{n+2}Zn_n(BO₃)_n(B₂O₅)F_n(n) Tj ETQq0 0 0 Inorganic Chemistry Frontiers, 2017, 4, 281-288.	3.0	29

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37	Li₆Zn₃(BO₃)₄: a new zincoborate featuring vertex-, edge- and face-sharing LiO₄tetrahedra and exhibiting reversible phase transitions. Inorganic Chemistry Frontiers, 2017, 4, 1100-1107.	3.0	17
38	Frontispiece: Structural Insights into Borates with an Anionâ€Templated Openâ€Framework Configuration: Asymmetric K₂BaB₁₆O₂₆ versus Centrosymmetric K₃CsB₂₀O₃₂ and Na₂M₂NB₁₈O₃₀ (M=Rb, Cs; N=Ba, Pb). Chemistry - A European Journal, 2017, 23,	1.7	0
39	Structural Insights into Borates with an Anionâ€Templated Openâ€Framework Configuration: Asymmetric K₂BaB₁₆O₂₆ versus Centrosymmetric K₃CsB₂₀O₃₂ and Na₂M₂NB₁₈O₃₀ (M=Rb, Cs; N=Ba, Pb). Chemistry - A European Journal, 2017, 23, 13910-13918.	1.7	24
40	Chemical Cosubstitution-Oriented Design of Rare-Earth Borates as Potential Ultraviolet Nonlinear Optical Materials. Journal of the American Chemical Society, 2017, 139, 18397-18405.	6.6	187
41	Broadband optical parametric chirped pulse amplification in K3B6O10Br crystal near 800 nm. Laser Physics Letters, 2017, 14, 095403.	0.6	4
42	Nonlinear optical and self-activated luminescent properties of A2W3O10 (A = Rb and Cs). RSC Advances, 2016, 6, 39234-39239.	1.7	10
43	Manipulation of birefringence via substitution of Sr²⁺by Pb²⁺based on the structure model of LiSr_{1â”x}Pb_xBO₃(0 â‰¤ x â‰¤ 0.5). New Journal of Chemistry, 2016, 40, 6120-6126.	1.4	5
44	Effects of the Orientation of [B5O11]7â€“ Fundamental Building Blocks on Layered Structures Based on the Pentaborates. Inorganic Chemistry, 2016, 55, 10608-10616.	1.9	27
45	The mechanism of large second harmonic generation enhancement activated by Zn²⁺substitution. Physical Chemistry Chemical Physics, 2016, 18, 32931-32936.	1.3	31
46	Versatile Coordination Mode of LiNaB₈O₁₃ and Î±- and Î²-LiKB₈O₁₃ via the Flexible Assembly of Four-Connected B₅O₁₀ and B₃O₇ Groups. Inorganic Chemistry, 2016, 55, 552-554.	1.9	17
47	Linear and nonlinear optical properties of aluminum borate crystal Al₅BO₉: Experiment and calculation. Journal of Materials Research, 2015, 30, 2319-2326.	1.2	11
48	Q₁₈Mg₆(B₅O₁₀)₃(B₇O₁₄)₂F (Q=Rb and Cs): New Borates Containing Two Large Isolated Polyborate Anions with Similar Topological Structures. Chemistry - A European Journal, 2015, 21, 1414-1419.	1.7	39
49	Simulated pressure-induced blue-shift of phase-matching region and nonlinear optical mechanism for K3B6O10X (Xâ€‰=â€‰Cl, Br). Applied Physics Letters, 2015, 106, .	1.5	121
50	Pb₁₇O₈Cl₁₈: A Promising IR Nonlinear Optical Material with Large Laser Damage Threshold Synthesized in an Open System. Journal of the American Chemical Society, 2015, 137, 8360-8363.	6.6	181
51	Na₃Ba₂(B₃O₆)₂F: Next Generation of Deep-Ultraviolet Birefringent Materials. Crystal Growth and Design, 2015, 15, 523-529.	1.4	159
52	A new 12L-hexagonal perovskite Cs₄Mg₃CaF₁₂: structural transition derived from the partial substitution of Mg²⁺with Ca²⁺. RSC Advances, 2014, 4, 54194-54198.	1.7	8
53	Li_{0.8}Mg_{2.1}B₂O₅F: the first borate fluoride with magnesiumâ€“oxygenâ€“fluorine octahedral chains. Dalton Transactions, 2014, 43, 2828-2834.	1.6	19
54	A new polymorph of Cd₃B₂O₆: synthesis, crystal structure and phase transformation. RSC Advances, 2014, 4, 13195-13200.	1.7	16

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55	BaPbSi₂O₆Â·BaSO₄: the first mixed anionic compound synthesized via BaSO₄ salt-inclusion. CrystEngComm, 2014, 16, 5993-5996.	1.3	4
56	Sr₄B₁₀O₁₈(OH)₂Â·2H₂O: a new UV nonlinear optical material with a [B₁₀O₂₃]^{16â^'}building block. Journal of Materials Chemistry C, 2014, 2, 667-674.	2.7	52
57	Ba2B10O17: a new centrosymmetric alkaline-earth metal borate with a deep-UV cut-off edge. Dalton Transactions, 2014, 43, 8905-8910.	1.6	44
58	K7B2P5O19: a novel alkali metal borophosphate with zero dimensional [B2P5O19]7â^' anionic units. CrystEngComm, 2014, 16, 6848-6851.	1.3	22
59	Structural insights for the design of new borateâ€“phosphates: synthesis, crystal structure and optical properties of Pb₄O(BO₃)(PO₄) and Bi₄O₃(BO₃)(PO₄). Dalton Transactions, 2014, 43, 12886-12893.	1.6	28
60	(MMgBO3)n (n=1, M=Li, Na, K, Rb and n=4, M=Cs): An investigation on the structure transition and optical properties. Inorganic Chemistry Communication, 2014, 49, 63-67.	1.8	7
61	Exploring the influence of cationic skeletons on the arrangement of isolated BO₃groups based on RbMgBO₃, CsZn₄(BO₃)₃and Cs₄Mg₄(BO₃)₄. New Journal of Chemistry, 2014, 38, 3035-3041.	1.4	22
62	Crystal growth and calculation of the electronic band structure and density of states of Li3Cs2B5O10. CrystEngComm, 2014, 16, 1978.	1.3	13
63	Synthesis and characterization of a new aluminophosphate with a Al₃P₆O₂₄^{9â^'} three-dimensional framework. New Journal of Chemistry, 2014, 38, 889-892.	1.4	7
64	A Bulk Boron-Based Photocatalyst for Efficient Dechlorination: K₃B₆O₁₀Br. Chemistry of Materials, 2014, 26, 3169-3174.	3.2	97
65	Linear and Nonlinear Optical Properties of K₃B₆O₁₀Br Single Crystal: Experiment and Calculation. Journal of Physical Chemistry C, 2014, 118, 11849-11856.	1.5	73
66	Specialâ^ž1[OPb2] Chains andâ^ž1[O2Pb3] Ribbons Based on OPb4Anion-Centered Tetrahedra in Pb2(O4Pb8)(BO3)3Br3and Pb2(O8Pb12)(BO3)2Br6. Inorganic Chemistry, 2013, 52, 11377-11384.	1.9	13
67	Synthesis, crystal structures and optical properties of two congruent-melting isotypic diphosphates: LiM3P2O7 (M=Na, K). Journal of Solid State Chemistry, 2013, 197, 128-133.	1.4	55
68	New Molybdenum(VI) Phosphates: Synthesis, Characterization, and Calculations of Centrosymmetric RbMoO2PO4 and Noncentrosymmetric Rb4Mo5P2O22. Inorganic Chemistry, 2013, 52, 1488-1495.	1.9	31
69	Exploration of a new compound in the Mâ€“Bâ€“Oâ€“X (M: alkali metals; X: halogen) system: Preparation, crystal and electronic structures, and optical properties of Na3B6O10Br. Inorganica Chimica Acta, 2013, 406, 205-210.	1.2	16
70	Sr3B6O11F2: a promising polar fluoroborate with short UV absorption edge and moderate second harmonic generation response. Scripta Materialia, 2013, 69, 449-452.	2.6	25
71	Synthesis, Structure Characterization, and Optical Properties of the Aluminosilicate Li₂Na₃AlSi₂O₈. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 779-783.	0.6	6
72	Cs₄Mo₅P₂O₂₂: a first Strandberg-type POM with 1D straight chains of polymerized [Mo₅P₂O₂₃]^{6â^'}units and moderate second harmonic generation response. Chemical Communications, 2013, 49, 306-308.	2.2	74

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73	Synthesis, crystal growth and characterization of a new noncentrosymmetric borophosphate: RbPbBP2O8. CrystEngComm, 2013, 15, 4956.	1.3	35
74	BaClBF4: a new noncentrosymmetric pseudo-Aurivillius type material with transparency range from deep UV to middle IR and a high laser damage threshold. Journal of Materials Chemistry C, 2013, 1, 4740.	2.7	36
75	Na₃Cd₃B(PO₄)₄: A New Noncentrosymmetric Borophosphate with Zero-Dimensional Anion Units. Inorganic Chemistry, 2012, 51, 10870-10875.	1.9	71
76	Synthesis, crystal structure and optical properties of a new orthorhombic phase, Na3ZnB5O10. Journal of Molecular Structure, 2012, 1021, 118-122.	1.8	12
77	Li5Rb2B7O14: a new congruently melting compound with two kinds of Bâ€“O one-dimensional chains and short UV absorption edge. CrystEngComm, 2012, 14, 6720.	1.3	23
78	Top seeded solution growth and optical properties of a bromic borate crystal: K3B6O10Br. Materials Letters, 2012, 68, 374-377.	1.3	26
79	Li2Sr4B12O23: A new alkali and alkaline-earth metal mixed borate with [B10O18]6â^' network and isolated [B2O5]4â^' unit. Journal of Solid State Chemistry, 2012, 190, 92-97.	1.4	21
80	Synthesis, crystal structure and properties of a new lead calcium diborate. Solid State Sciences, 2012, 14, 948-951.	1.5	6
81	Crystal growth and optical properties of a noncentrosymmetric haloid borate, K3B6O10Br. CrystEngComm, 2011, 13, 2899.	1.3	82
82	A New Lithium Rubidium Borate Li₆Rb₅B₁₁O₂₂ with Isolated B₁₁O₂₂ Building Blocks. Crystal Growth and Design, 2011, 11, 3912-3916.	1.4	64
83	Growth, crystal structure and optical properties of layered dibarium cadmium diborate, Ba2Cd(BO3)2. Journal of Alloys and Compounds, 2011, 509, 6696-6699.	2.8	14
84	Synthesis, crystal structure and optical properties of the new lead fluoride borateâ€”Pb2BO3F. Journal of Solid State Chemistry, 2011, 184, 2849-2853.	1.4	34
85	Synthesis, crystal structure and optical properties of a novel sodium lead pentaborate, NaPbB5O9. Journal of Solid State Chemistry, 2011, 184, 825-829.	1.4	24
86	Promising Deepâ€Ultraviolet Birefringent Materials via Rational Design and Assembly of Planar Ï€â€Conjugated [B(OH) ₃] and [B ₃ O ₃ (OH) ₃] Functional Species. Angewandte Chemie, 0, , .	1.6	2