Zhihua Yang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2019041/publications.pdf

Version: 2024-02-01

300 papers	17,039 citations	15504 65 h-index	19190 118 g-index
301 all docs	301 docs citations	301 times ranked	2327 citing authors

#	Article	IF	Citations
1	Achieving Shortâ€Wavelength Phaseâ€Matching Second Harmonic Generation in Boronâ€Rich Borosulfate with Planar [BO₃] Units. Angewandte Chemie - International Edition, 2022, 61, .	13.8	50
2	Polymorphic Pb14O8I12 and Pb7O4I6 oxyhalides featuring unprecedented [O8Pb14] clusters with broad IR transparency. Science China Materials, 2022, 65, 773-779.	6.3	7
3	From Kâ€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, .	3.3	7
4	Enhancement of band gap and birefringence induced via Ï€-conjugated chromophore with â€œtail effectâ€. Inorganic Chemistry Frontiers, 2022, 9, 1224-1232.	6.0	11
5	Ba2B13O19(OH)5Â·5H2O: A promising nonlinear optical material with a unique 2[B13O19(OH)5]âˆž two-dimensional layer. Journal of Alloys and Compounds, 2022, 897, 163194.	5.5	3
6	AZn₂(BO₃)Si₂O₅ (A = Rb, Cs): first examples of KBe₂BO₃F₂ structure type in the borosilicate family exhibiting a deep-ultraviolet cutoff edge. Journal of Materials Chemistry C, 2022, 10, 1727-1734.	5.5	7
7	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
8	Na₄B₈O₉F₁₀: A Deepâ€Ultraviolet Transparent Nonlinear Optical Fluorooxoborate with Unexpected Short Phaseâ€Matching Wavelength Induced by Optimized Chromatic Dispersion. Angewandte Chemie, 2022, 134, .	2.0	9
9	Na₄B₈O₉F₁₀: A Deepâ€Ultraviolet Transparent Nonlinear Optical Fluorooxoborate with Unexpected Short Phaseâ€Matching Wavelength Induced by Optimized Chromatic Dispersion. Angewandte Chemie - International Edition, 2022, 61, .	13.8	80
10	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.	3.3	3
11	Sr₃B₁₄O₂₄: a new borate with a [B₁₄O₃₀] fundamental building block and an unwonted 2D double layer. Dalton Transactions, 2022, 51, 618-623.	3.3	3
12	Pb₂Al₂B₃O₈F₃: structure and properties of a new fluoroaluminoborate with non-traditional chain-like B₃O₈ groups. Dalton Transactions, 2022, 51, 3964-3969.	3.3	2
13	Hierarchical Modulation of Optical Anisotropy Driven by Metal Cation Polyhedra in Fluorooxoborates M II B 4 O 6 F 2 (M II =Be, Mg, Pb, Zn, Cd). Chemistry - A European Journal, 2022, 28, .	3.3	3
14	MMâ€²B3O4F3 (M = K; Mâ€² = Na, K, Cs): Alkali-Metal Fluorooxoborates with âˆž1[B3O4F3] Chains and Deep-Ultraviolet Cutoff Edges. Inorganic Chemistry, 2022, , .	4.0	7
15	Design of a diamond-like infrared nonlinear optical material LiBS2 with ultra-wide band gap. Journal of Alloys and Compounds, 2022, 902, 163839.	5.5	3
16	Potential optical functional crystals with large birefringence: Recent advances and future prospects. Coordination Chemistry Reviews, 2022, 459, 214380.	18.8	114
17	Guanidinium Fluorooxoborates as Efficient Metal-free Short-Wavelength Nonlinear Optical Crystals. Chemistry of Materials, 2022, 34, 440-450.	6.7	67
18	Ba₁₀LuB₁₈O₃₂F₁₃: the first example of borate in the Luâ€“Bâ€“Oâ€“F system with the unprecedented FBB [B₉O₂₂]. Inorganic Chemistry Frontiers, 2022, 9, 2298-2304.	6.0	7

#	Article	IF	Citations
19	â€œRemoving Centerâ€â”€An Effective Structure Design Strategy for Nonlinear Optical Crystals. Chemistry of Materials, 2022, 34, 2429-2438.	6.7	16
20	Strong Nonlinearity Induced by Coaxial Alignment of Polar Chain and Dense [BO₃] Units in CaZn₂(BO₃)₂. Angewandte Chemie - International Edition, 2022, 61, .	13.8	116
21	LiB5O5F2(OH)4: A new deep-ultraviolet birefringent crystal with [B5O5F2(OH)4] anionic group. Science China Materials, 2022, 65, 2585-2590.	6.3	11
22	Rb5Ba2(B10O17)2(BO2): The formation of unusual functional [BO2]â¯ in borates with deep-ultraviolet transmission window. Science China Chemistry, 2022, 65, 719-725.	8.2	25
23	Uncovering the Structural Diversity and Excellent Performance of a Deep Ultraviolet Nonlinear Optical System Li(B₂O₃)_nF (n= 1, 1.5, 2, and 3) by Multicomponent Prediction. Chemistry of Materials, 2022, 34, 3133-3139.	6.7	10
24	Toward the Rational Design of Midâ€Infrared Nonlinear Optical Materials with Targeted Properties via a Multiâ€Level Dataâ€Driven Approach. Advanced Functional Materials, 2022, 32, .	14.9	58
25	[C₃N₆H₇]₂[B₃O₃F₄(OH)]: a new hybrid birefringent crystal with strong optical anisotropy induced by mixed functional units. Journal of Materials Chemistry C, 2022, 10, 6590-6595.	5.5	28
26	(N₂H₆)[HPO₃F]₂: maximizing the optical anisotropy of deep-ultraviolet fluorophosphates. Chemical Communications, 2022, 58, 5594-5597.	4.1	18
27	Noncentrosymmetric Rare-Earth Borate Fluoride La₂B₅O₉F₃: A New Ultraviolet Nonlinear Optical Crystal with Enhanced Linear and Nonlinear Performance. ACS Applied Materials & Interfaces, 2022, 14, 18704-18712.	8.0	28
28	The Combination of Structure Prediction and Experiment for the Exploration of Alkaliâ€Earth Metalâ€Contained Chalcopyriteâ€Like IR Nonlinear Optical Material. Advanced Science, 2022, 9, e2106120.	11.2	44
29	Lone Pair-Driven Enhancement of Birefringence in Polar Alkali Metal Antimony Phosphates. Chemistry of Materials, 2022, 34, 4224-4231.	6.7	19
30	Doubleâ€Modification Oriented Design of a Deepâ€UV Birefringent Crystal Functionalized by [B₁₂O₁₆F₄(OH)₄] Clusters. Angewandte Chemie - International Edition, 2022, 61, .	13.8	70
31	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, .	13.8	34
32	Enhancement of Birefringence in Borophosphate Pushing Phase-Matching into the Short-Wavelength Region. Journal of the American Chemical Society, 2022, 144, 9083-9090.	13.7	69
33	CsAB₈O₁₂F₂·CsI (A = K⁺,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 T structuresviaa salt-inclusion strategy. Journal of Materials Chemistry C, 2022, 10, 8584-8588.	5.5	12
34	NaBaBS₃: A Promising Infrared Functional Material with Large Birefringence Induced by Ï€-Conjugated [BS₃] Units. Chemistry of Materials, 2022, 34, 5215-5223.	6.7	13
35	(NH4)3B11PO19F3: a deep-UV nonlinear optical crystal with unique [B5PO10F]â¸ž layers. National Science Review, 2022, 9, .	9.5	68
36	Design of Infrared Nonlinear Optical Compounds with Diamond-like Structures and Balanced Optical Performance. Inorganic Chemistry, 2022, 61, 11454-11462.	4.0	5

#	Article	IF	Citations
37	Î±â€SnF₂: A UV Birefringent Material with Large Birefringence and Easy Crystal Growth. Angewandte Chemie - International Edition, 2021, 60, 3540-3544.	13.8	108
38	Series of Crystals with Giant Optical Anisotropy: A Targeted Strategic Research. Angewandte Chemie, 2021, 133, 1352-1358.	2.0	9
39	Series of Crystals with Giant Optical Anisotropy: A Targeted Strategic Research. Angewandte Chemie - International Edition, 2021, 60, 1332-1338.	13.8	77
40	Î±â€SnF 2 : A UV Birefringent Material with Large Birefringence and Easy Crystal Growth. Angewandte Chemie, 2021, 133, 3582-3586.	2.0	12
41	Sn₂B₅O₉Br as an Outstanding Bifunctional Material with Strong Secondâ€Harmonic Generation Effect and Large Birefringence. Advanced Optical Materials, 2021, 9, 2001734.	7.3	49
42	AB11O16(OH)2 (A = K and Cs): interpenetrating 2D layers with large birefringence. CrystEngComm, 2021, 23, 35-39.	2.6	4
43	Cs₂AlB₅O₁₀: a short-wavelength nonlinear optical crystal with moderate second harmonic generation response. Dalton Transactions, 2021, 50, 822-825.	3.3	8
44	Ba₂B₇O₁₂F with novel FBB [B₇O₁₆F] and deep-ultraviolet cut-off edge. Inorganic Chemistry Frontiers, 2021, 8, 339-343.	6.0	17
45	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.	3.6	9
46	Sn₁₄O₁₁Br₆: a promising birefringent material with a [Sn₁₄O₁₁Br₆] layer. Journal of Materials Chemistry C, 2021, 9, 7103-7109.	5.5	19
47	Synergism of multiple functional chromophores significantly enhancing the birefringence in layered non-centrosymmetric chalcohalides. Inorganic Chemistry Frontiers, 2021, 8, 1588-1598.	6.0	12
48	Barium fluoroiodate crystals with a large band gap and birefringence. Inorganic Chemistry Frontiers, 2021, 8, 3127-3133.	6.0	16
49	The synthesis, characterization, and theoretical analysis of (NH4)3PbCl5. New Journal of Chemistry, 2021, 45, 2038-2043.	2.8	1
50	Design and synthesis of Ba₃SiSe₅ with suitable birefringence modulated via M^{IV} atoms in the Baâ€“M^{IV}â€“Q (M^{IV} = Si, Ge; Q = S, Se) system. Dalton Transactions, 2021, 50, 11999-12005.	3.3	2
51	An antimony(<scp>iii</scp>) borate with large birefringence exhibiting unwonted [B₅O₁₁] fundamental building blocks and dimeric [Sb₂O₆] clusters. Inorganic Chemistry Frontiers, 2021, 8, 2584-2590.	6.0	15
52	BaZn₃(BO₃)₂F₂: a new beryllium-free zincoborate with a KBBF-type structure. Dalton Transactions, 2021, 50, 13216-13219.	3.3	7
53	SrTi(IO₃)₆Â·2H₂O and SrSn(IO₃)₆: distinct arrangements of lone pair electrons leading to large birefringences. RSC Advances, 2021, 11, 10309-10315.	3.6	5
54	Computationally assisted multistage design and prediction driving the discovery of deep-ultraviolet nonlinear optical materials. Materials Chemistry Frontiers, 2021, 5, 3507-3523.	5.9	27

#	Article	IF	Citations
55	From centrosymmetric to noncentrosymmetric: effect of the cation on the crystal structures and birefringence values of (NH₄)_{nâ˜2}AE(PO₂F₂)_n (AE = Mg, Sr and Ba;) Tj ETQq1 1 0.784314	3.3	4
56	From BaCl₂ to Ba(NO₃)Cl: significantly enhanced birefringence derived from Ï€-conjugated [NO₃]. New Journal of Chemistry, 2021, 45, 17544-17550.	2.8	5
57	BaTi(BO₃)₂: an excellent birefringent material with highly coplanar isolated [BO₃] groups. New Journal of Chemistry, 2021, 45, 7065-7068.	2.8	7
58	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.	6.0	4
59	Finding Short-Wavelength Birefringent Crystals with Large Optical Anisotropy Activated by Ï€-Conjugated [C(NH₂)₃] Units. Crystal Growth and Design, 2021, 21, 1869-1877.	3.0	15
60	Na₆MQ₄ (M=Zn, Cd; Q=S, Se): Promising New Ternary Infrared Nonlinear Optical Materials. Chemistry - A European Journal, 2021, 27, 6538-6544.	3.3	16
61	Toward the Enhancement of Critical Performance for Deep-Ultraviolet Frequency-Doubling Crystals Utilizing Covalent Tetrahedra. Accounts of Materials Research, 2021, 2, 282-291.	11.7	82
62	Pb3Ba7B7O20F: A new nonlinear optical material exhibiting large second harmonic generation response induced by its unprecedented Pb-B-O framework. Scripta Materialia, 2021, 194, 113700.	5.2	8
63	Prediction of Novel van der Waals Boron Oxides with Superior Deepâ€Ultraviolet Nonlinear Optical Performance. Angewandte Chemie, 2021, 133, 10886-10892.	2.0	6
64	Prediction of Novel van der Waals Boron Oxides with Superior Deepâ€Ultraviolet Nonlinear Optical Performance. Angewandte Chemie - International Edition, 2021, 60, 10791-10797.	13.8	28
65	M₃B₆O₁₀NO₃ (Mâ€…=â€…K, Rb): Two New Alkali Metal Borateâ€Nitrates with Noncentrosymmetric Structures. European Journal of Inorganic Chemistry, 2021, 2021, 1297-1304.	2.0	12
66	Cation Substitution of Hexagonal Triple Perovskites: A Case in Trimetallic Tellurates A2Aâ€²BTe2O9. Inorganic Chemistry, 2021, 60, 6099-6106.	4.0	6
67	Expanding the chemistry of borates with functional [BO2]â˜ anions. Nature Communications, 2021, 12, 2597.	12.8	99
68	Discovery of First Magnesium Fluorooxoborate with Stable Fluorine Terminated Framework for Deepâ€UV Nonlinear Optical Application. Angewandte Chemie, 2021, 133, 14771-14777.	2.0	13
69	Discovery of First Magnesium Fluorooxoborate with Stable Fluorine Terminated Framework for Deepâ€UV Nonlinear Optical Application. Angewandte Chemie - International Edition, 2021, 60, 14650-14656.	13.8	109
70	Cs₄B₄O₃F₁₀: First Fluorooxoborate with [BF₄] Involving Heteroanionic Units and Extremely Low Melting Point. Chemistry - A European Journal, 2021, 27, 9753-9757.	3.3	16
71	Fluorineâ€Driven Enhancement of Birefringence in the Fluorooxosulfate: A Deep Evaluation from a Joint Experimental and Computational Study. Advanced Science, 2021, 8, e2003594.	11.2	83
72	The First Mixed Calcium Zinc Borate with a Flexible [B 8 O 17] Fundamental Building Block and Short UV Cutoff Edge. Chemistry - A European Journal, 2021, 27, 12047-12051.	3.3	2

#	Article	IF	Citations
73	Li₃La₂(BO₃)₃ and Li_{1.75}Na_{1.25}La₂(BO₃)₃: A Great Enhancement in Birefringence Induced by Optimal Arrangement of Ï€-Conjugated [BO₃] Units. Inorganic Chemistry, 2021, 60, 12565-12572.	4.0	11
74	Hydroxyfluorooxoborate Na[B 3 O 3 F 2 (OH) 2]â‹…[B(OH) 3]: Optimizing the Optical Anisotropy with Heteroanionic Units for Deep Ultraviolet Birefringent Crystals. Angewandte Chemie, 2021, 133, 20632-20638.	2.0	14
75	Hg₃P₂S₈: A New Promising Infrared Nonlinear Optical Material with a Large Second-Harmonic Generation and a High Laser-Induced Damage Threshold. Chemistry of Materials, 2021, 33, 6514-6521.	6.7	74
76	Tetrafluoroborate-Monofluorophosphate (NH₄)₃[PO₃F][BF₄]: First Member of Oxyfluoride with Bâ€“F and Pâ€“F Bonds. ACS Organic & Inorganic Au, 2021, 1, 6-10.	4.0	13
77	Hydroxyfluorooxoborate Na[B₃O₃F₂(OH)₂]â‹…[B(OH)₃]: Optimizing the Optical Anisotropy with Heteroanionic Units for Deep Ultraviolet Birefringent Crystals. Angewandte Chemie - International Edition, 2021, 60, 20469-20475.	13.8	90
78	Li₄MgGe₂S₇: The First Alkali and Alkalineâ€Earth Diamondâ€Like Infrared Nonlinear Optical Material with Exceptional Large Band Gap. Angewandte Chemie, 2021, 133, 24333-24338.	2.0	14
79	NaRbB 3 O 4 F 3 : A New Fluorooxoborate with a Short UV Cutoff Edge Enriching the Structural Chemistry of Borate. Chemistry - an Asian Journal, 2021, 16, 3082-3085.	3.3	5
80	From borophosphate to fluoroborophosphate: a rational design of fluorine-induced birefringence enhancement. Science China Chemistry, 2021, 64, 1498-1503.	8.2	17
81	Li₄MgGe₂S₇: The First Alkali and Alkalineâ€Earth Diamondâ€Like Infrared Nonlinear Optical Material with Exceptional Large Band Gap. Angewandte Chemie - International Edition, 2021, 60, 24131-24136.	13.8	130
82	Sn2PO4I: An Excellent Birefringent Material with Giant Optical Anisotropy in Non Ï€â€Conjugated Phosphate. Angewandte Chemie, 2021, 133, 25105.	2.0	14
83	Finding a Series of BaBOF₃ Fluorooxoborate Polymorphs with Tunable Symmetries: A Simple but Flexible Case. Chemistry of Materials, 2021, 33, 7905-7913.	6.7	22
84	Sn₂PO₄I: An Excellent Birefringent Material with Giant Optical Anisotropy in Non Ï€â€Conjugated Phosphate. Angewandte Chemie - International Edition, 2021, 60, 24901-24904.	13.8	101
85	BaB₄O₅F₄ with reversible phase transition featuring unprecedented fundamental building blocks of [B₁₆O₂₁F₁₆] in the Î±-phase and [B₄O₆F₄] in the Î²-phase. Chemical Communications, 2021, 57, 4182-4185.	4.1	15
86	Enhanced birefringence and suppressed second harmonic generation response mechanism in nonlinear optical materials via structural fine-tuning. Materials Chemistry Frontiers, 2021, 5, 7580-7586.	5.9	7
87	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.	4.0	8
88	Syntheses, Structures and Properties of Alkali and Alkaline Earth Metal Diamond-Like Compounds Li2MgMSe4 (M = Ge, Sn). Materials, 2021, 14, 6166.	2.9	6
89	Coordination-Directed Structural Modulation and Design of Deep-Ultraviolet Nonlinear Optical Materials. Journal of Physical Chemistry C, 2021, 125, 24859-24866.	3.1	3
90	CsAlB₃O₆F: a beryllium-free deep-ultraviolet nonlinear optical material with enhanced thermal stability. Chemical Science, 2020, 11, 694-698.	7.4	108

#	Article	IF	Citations
91	Effect of anion dimensionality on optical properties: the _{â^ž}[B₇O₁₀(OH)₂] layer in CsB₇O₁₀(OH)₂vs. the _{â^ž}[B₇O₁₂] framework in CsBaB₇O₁₂. Dalton Transactions, 2020, 49, 1293-1299.	3.3	14
92	Al₈(BO₃)₄(B₂O₅)F₈: A F-Containing Aluminum Borate Featuring Two Types of Isolated Bâ€“O Groups. Inorganic Chemistry, 2020, 59, 810-817.	4.0	5
93	NaRb₃B₆O₉(OH)₃(HCO₃): A Borate-Bicarbonate Nonlinear Optical Material. Inorganic Chemistry, 2020, 59, 759-766.	4.0	13
94	Two new ammonium/alkali-rare earth metal difluorophosphates ALa(PO₂F₂)₄(A = NH₄and K) with moderate birefringence and short cutoff edges. Dalton Transactions, 2020, 49, 11591-11596.	3.3	14
95	Structure-property survey and computer-assisted screening of mid-infrared nonlinear optical chalcohalides. Coordination Chemistry Reviews, 2020, 421, 213379.	18.8	78
96	RbB₃O₄F₂: a rubidium fluorooxoborate with an unprecedented [B₃O₅F₂]^{3â^’} functionalized unit and a large birefringence. Chemical Communications, 2020, 56, 15333-15336.	4.1	27
97	K4(PO2F2)2(S2O7): first fluorooxophosphorsulfate with mixed-anion [S2O7]2â^’ and [PO2F2]â^’ groups. Dalton Transactions, 2020, 49, 17658-17664.	3.3	11
98	Enhanced optical anisotropyviadimensional control in alkali-metal chalcogenides. Physical Chemistry Chemical Physics, 2020, 22, 19697-19703.	2.8	14
99	Three non-centrosymmetric bismuth phosphates, Li₂ABi(PO₄)₂(A =) Tj ETQq1 1 0.784314 rgB Frontiers, 2020, 7, 3364-3370.	6.0	17
100	Fluorooxoborate layers: second harmonic generation and Raman spectra anisotropy. New Journal of Chemistry, 2020, 44, 13939-13943.	2.8	1
101	Intense d-p Hybridization Induced a Vast SHG Response Disparity between Tetrahedral Vanadates and Arsenates. Journal of Physical Chemistry C, 2020, 124, 24949-24956.	3.1	8
102	Role of Fluorooxo-Functional Units in Symmetry Breaking and Second Harmonic Generation Response Contribution in Fluorooxoborate Nonlinear Optical Crystals. Crystal Growth and Design, 2020, 20, 7582-7587.	3.0	10
103	Second Harmonic Generation Susceptibilities from Symmetry Adapted Wannier Functions. Physical Review Letters, 2020, 125, 187402.	7.8	94
104	A review of the AI2B^{II}C^{IV}DVI4 family as infrared nonlinear optical materials: the effect of each site on the structure and optical properties. Chemical Communications, 2020, 56, 11565-11576.	4.1	46
105	Ba₃(BO₃)(CO₃)F: The First Borate Carbonate Fluoride Synthesized by the Highâ€Temperature Solution Method. Chemistry - A European Journal, 2020, 26, 16628-16632.	3.3	12
106	Cs₃B₃O₃F₆ with a Deep-Ultraviolet Cutoff Edge and a Suitable Birefringence as the Potential Zero-Order Waveplate Material. Inorganic Chemistry, 2020, 59, 13014-13018.	4.0	17
107	Li₄Ca₂B₈O₁₆: A Borate with a Unique Fundamental Building Block and a Short Cutoff Edge. Inorganic Chemistry, 2020, 59, 8396-8403.	4.0	11
108	From BaAl2(BO3)2O to SnAl2(BO3)2F2: structure transformation based on ion regulation. New Journal of Chemistry, 2020, 44, 9852-9857.	2.8	2

#	Article	IF	Citations
109	Rb₃BaTeB₇O₁₅: a novel [B₇O₁₆] fundamental building block in a new tellurоborate with [TeO₃] polyhedra. Dalton Transactions, 2020, 49, 8911-8917.	3.3	7
110	New Alkaline-Earth Metal Fluoroiodates Exhibiting Large Birefringence and Short Ultraviolet Cutoff Edge with Highly Polarizable (IO₃F)^{2â€“} Units. Chemistry of Materials, 2020, 32, 5723-5728.	6.7	44
111	ZnIO₃F: Zinc Iodate Fluoride with Large Birefringence and Wide Band Gap. Inorganic Chemistry, 2020, 59, 4172-4175.	4.0	40
112	æ·±ç´«å–æºŸåŒ–ç¡¼é…ç›®åŒæŠ˜å°„çŽ‡å'ŒæŠ˜å°„çŽ‡è‰²æ•£çš„æ€§èƒ½ å¢žç›Šç”ç©¶. Science China Materials, 2020, 63, 1480-14	6.3	13
113	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.	6.7	36
114	Alignment of Polar Moieties Leading to Strong Second Harmonic Response in KCsMoP₂O₉. Chemistry of Materials, 2020, 32, 3297-3303.	6.7	31
115	Polar polymorphism: Î±- and Î²-KCsWP₂O₉nonlinear optical materials with a strong second harmonic generation response. Journal of Materials Chemistry C, 2020, 8, 11441-11448.	5.5	19
116	PbB₅O₇F₃: A High-Performing Short-Wavelength Nonlinear Optical Material. Chemistry of Materials, 2020, 32, 2172-2179.	6.7	88
117	Noncentrosymmetric Fluorooxoborates A₁₀B₁₃O₁₅F₁₉ (A = K and Rb) with Unexpected [B₁₀O₁₂F₁₃]^{7â€“} Units and Deep-Ultraviolet Cutoff Edges. Inorganic Chemistry, 2020, 59, 3274-3280.	4.0	21
118	Structural Diversity of Molybdate Iodate and Fluoromolybdate: Syntheses, Structures, and Calculations on Na₃(MoO₄)(IO₃) and Na₃Cs(MoO₂F₄)₂. Inorganic Chemistry, 2020, 59, 3034-3041.	4.0	13
119	Ba(B2OF3(OH)2)2 with well-ordered OH/F anions and a unique B2OF3(OH)2 dimer. Chemical Communications, 2020, 56, 3301-3304.	4.1	18
120	Band-Gap Modulation of Nonlinear-Optical Fluorooxoborates by Controlling the F/B Ratios. Inorganic Chemistry, 2020, 59, 1588-1591.	4.0	3
121	Î±-, Î²-Pb4B2O7 and Î±-, Î²-Pb4B6O13: Polymorphism drives changes in structure and performance. Science China Materials, 2020, 63, 806-815.	6.3	13
122	A Promising Fluorooxoborate Framework with Flexibile Capability for Diverse Cations to Enhance the Second Harmonic Generation. Chemistry - A European Journal, 2020, 26, 3723-3728.	3.3	10
123	LiBa₄Ga₅Q₁₂ (Q = S, Se): Noncentrosymmetric Metal Chalcogenides with a Cesium Chloride Topological Structure Displaying a Remarkable Laser Damage Threshold. Inorganic Chemistry, 2020, 59, 5674-5682.	4.0	25
124	Prediction of ternary fluorooxoborates with coplanar triangular units [BO_xF_{3â^'x}]^{xâ^'} from first-principles. Dalton Transactions, 2020, 49, 5424-5428.	3.3	9
125	Three diphosphates, Î±-Li₂Na₂P₂O₇, Li₈Pb₃Ba(P₂O₇)₄and Li₇Rb(P₂O₇)₂: influences of co-substitution on the crystal structure. Dalton Transactions, 2020, 49, 6744-6750.	3.3	5
126	Prediction and Characterization of NaGaS₂, A High Thermal Conductivity Mid-Infrared Nonlinear Optical Material for High-Power Laser Frequency Conversion. Inorganic Chemistry, 2019, 58, 93-98.	4.0	30

#	Article	IF	Citations
127	Structural insights into three phosphates with distinct polyanionic configurations. Dalton Transactions, 2019, 48, 13406-13412.	3.3	10
128	Ba₃Ca₄(BO₃)₃(SiO₄)Cl: a new non-centrosymmetric complex alkaline-earth metal borosilicate chloride with a deep-ultraviolet cut-off edge. Inorganic Chemistry Frontiers, 2019, 6, 2200-2208.	6.0	16
129	Experiment and First-Principles Calculations of A₂Mg₂TeB₂O₁₀ (A = Pb, Ba): Influences of the Cosubstitution on the Structure Transformation and Optical Properties. Inorganic Chemistry, 2019, 58, 11127-11132.	4.0	17
130	Prediction of Fluorooxoborates with Colossal Second Harmonic Generation (SHG) Coefficients and Extremely Wide Band Gaps: Towards Modulating Properties by Tuning the BO₃/BO₃F Ratio in Layers. Angewandte Chemie, 2019, 131, 11852-11856.	2.0	16
131	Structural modulation induced by MIIIA metals in Ba3MQ4X (M = Al, Ga, In; Q = S, Se; X = Cl, Br): an experimental and computational analysis. Dalton Transactions, 2019, 48, 12713-12719.	3.3	4
132	Prediction of Fluorooxoborates with Colossal Second Harmonic Generation (SHG) Coefficients and Extremely Wide Band Gaps: Towards Modulating Properties by Tuning the BO₃/BO₃F Ratio in Layers. Angewandte Chemie - International Edition, 2019, 58, 11726-11730.	13.8	66
133	Ba₃B₁₀O₁₇F₂·0.1KF: the first mixed alkali/alkaline-earth metal fluorooxoborate with unprecedented double-layered B–O/F anionic arrangement. Chemical Communications, 2019, 55, 8923-8926.	4.1	14
134	A new barium-containing alkali metal silicate fluoride NaBa3Si2O7F with deep-UV optical property. Science China Materials, 2019, 62, 1454-1462.	6.3	10
135	Sn₂B₅O₉Cl: A Material with Large Birefringence Enhancement Activated Prepared via Alkaline–Earth–Metal Substitution by Tin. Angewandte Chemie - International Edition, 2019, 58, 17675-17678.	13.8	171
136	Designing excellent mid-infrared nonlinear optical materials with fluorooxo-functional group of d0 transition metal oxyfluorides. Science China Materials, 2019, 62, 1798-1806.	6.3	49
137	Nontoxic KBBF Family Member Zn₂BO₃(OH): Balance between Beneficial Layered Structure and Layer Tendency. Advanced Science, 2019, 6, 1901679.	11.2	56
138	Sn₂B₅O₉Cl: A Material with Large Birefringence Enhancement Activated Prepared via Alkaline–Earth–Metal Substitution by Tin. Angewandte Chemie, 2019, 131, 17839-17842.	2.0	29
139	CO(NH₂)₂·NH₄Cl: an ultraviolet birefringent material with conjugated C=O groups. CrystEngComm, 2019, 21, 6072-6079.	2.6	10
140	Cation Modulation on the Crystal Structure and Band Gap of Fluorooxoborates A₃B₃O₃F₆ (A = Alkali and Mixed Alkali Metal). Inorganic Chemistry, 2019, 58, 13411-13417.	4.0	16
141	LiBa₂M^{III}Q₄ (M^{III} = Al, Ga, In; Q = S, Se): A Series of Metal Chalcogenides with a Structural Transition. Inorganic Chemistry, 2019, 58, 12859-12866.	4.0	10
142	Experimental characterization and first principles calculations of linear and nonlinear optical properties of two orthophosphates A₃Al₂(PO₄)₃ (A =	6.0	32
143	Adjustable optical nonlinearity in d¹⁰ cations containing chalcogenides via dp hybridization interaction. Dalton Transactions, 2019, 48, 2592-2597.	3.3	12
144	Lone pair effects on ternary infrared nonlinear optical materials. Physical Chemistry Chemical Physics, 2019, 21, 5142-5147.	2.8	16

#	Article	IF	Citations
145	Li₄Na₂CsB₇O₁₄: a new edge-sharing [BO₄]^{5â^'} tetrahedra containing borate with high anisotropic thermal expansion. Chemical Communications, 2019, 55, 1295-1298.	4.1	39
146	BaB8O12F2: a promising deep-UV birefringent material. Inorganic Chemistry Frontiers, 2019, 6, 546-549.	6.0	45
147	The first lithium difluorophosphate LiPO₂F₂with a neutral polytetrahedral microporous architecture. Chemical Communications, 2019, 55, 1817-1820.	4.1	20
148	An alkali metal phosphate RbPbBi₂(PO₄)₃ with three kinds of disorder: the effect of isolated soft cation units on the crystal structure. Inorganic Chemistry Frontiers, 2019, 6, 2050-2054.	6.0	3
149	Î²â€CsB 9 O 14 : A Tripleâ€Layered Borate with Edgeâ€Sharing BO 4 Tetrahedra Exhibiting a Short Cutoff Edge and a Large Birefringence. Chemistry - A European Journal, 2019, 25, 11614-11619.	3.3	29
150	K2[B4O5(OH)4]Â·H2O and K2[B4O5(OH)4]: two new hydrated potassium borates with isolated [B4O5(OH)4]2â^' units and different structural frameworks. New Journal of Chemistry, 2019, 43, 11660-11665.	2.8	3
151	Transformation of the Bâ€“O Units from Corner-Sharing to Edge-Sharing Linkages in BaMBO₄ (M = Ga, Al). Inorganic Chemistry, 2019, 58, 8237-8244.	4.0	23
152	Be₂CO₃F₂ Monolayer: A Flexible Ultraviolet Nonlinear Optical Material via Rational Design. Inorganic Chemistry, 2019, 58, 7715-7721.	4.0	2
153	Three new phosphates, Cs8Pb4(P2O7)4, CsLi7(P2O7)2 and LiCa(PO3)3: structural comparison, characterization and theoretical calculation. Dalton Transactions, 2019, 48, 8948-8954.	3.3	17
154	Two alkali calcium borates exhibiting second harmonic generation and deep-UV cutoff edges. New Journal of Chemistry, 2019, 43, 9354-9363.	2.8	2
155	K₉[B₄O₅(OH)₄]₃(CO₃)XÂ·7H₂O (X = Cl, Br): Syntheses, Characterizations, and Theoretical Studies of Noncentrosymmetric Halogen Borateâ€“Carbonates with Short UV Cutoff Edges. Inorganic Chemistry, 2019, 58, 6974-6982.	4.0	9
156	From centrosymmetric to noncentrosymmetric: cation-directed structural evolution in X₃ZnB₅O₁₀(X = Na, K, Rb) and Cs₁₂Zn₄(B₅O₁₀)₄crystals. Inorganic Chemistry Frontiers, 2019, 6, 1461-1467.	6.0	14
157	A new barium fluorooxoborate BaB₅O₈FÂ·xH₂O with large birefringence and a wide UV transparency window. Dalton Transactions, 2019, 48, 6714-6717.	3.3	23
158	Module-Analysis-Assisted Design of Deep Ultraviolet Fluorooxoborates with Extremely Large Gap and High Structural Stability. Chemistry of Materials, 2019, 31, 2807-2813.	6.7	87
159	[Ge₂S₅(S₂)]^{4â^'}, A NLOâ€Active Unit Leading to an Asymmetric Structure Discovered in Li₂Cs₄Ge₂S₅(S₂)Cl₂: An Experimental and Theoretical study. Chemistry - A European Journal, 2019, 25, 5440-5444.	3.3	12
160	NaCa₅BO₃(SiO₄)₂ with Interesting Isolated [BO₃] and [SiO₄] Units in Alkali- and Alkaline-Earth-Metal Borosilicates. Inorganic Chemistry, 2019, 58, 3937-3943.	4.0	12
161	Designing Three Fluorooxoborates with a Wide Transmittance Window by Anionic Group Substitution. Inorganic Chemistry, 2019, 58, 3596-3600.	4.0	14
162	ABaSbQ₃ (A = Li, Na; Q = S, Se): diverse arrangement modes of isolated SbQ₃ ligands regulating the magnitudes of birefringences. Chemical Communications, 2019, 55, 5143-5146.	4.1	33

#	Article	IF	Citations
163	Two Polar Molybdenum(VI) Iodates(V) with Large Second-Harmonic Generation Responses. Chemistry of Materials, 2019, 31, 2992-3000.	6.7	60
164	BaB₂O₃F₂: A Barium Fluorooxoborate with a Unique [B₂O₃F]^{â¯} Layer and Short Cutoff Edge. Chemistry - A European Journal, 2019, 25, 6693-6697.	3.3	31
165	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.	15.6	315
166	Ba4M(CO3)2(BO3)2 (M=Ba, Sr): two borate-carbonates synthesized by open high temperature solution method. Science China Materials, 2019, 62, 1023-1032.	6.3	21
167	A₂SrM^{IV}S₄ (A = Li, Na; M^{IV} = Ge, Sn) concurrently exhibiting wide bandgaps and good nonlinear optical responses as new potential infrared nonlinear optical materials. Chemical Science, 2019, 10, 3963-3968.	7.4	64
168	Sn₂B₇O₁₂F with a 2â[B₁₄O₂₄]^{6â¯} layer constructed from the unprecedented [B₇O₁₆]^{11â¯} fundamental building block. Inorganic Chemistry Frontiers, 2019, 6, 996-1002.	6.0	17
169	LiGeBO₄: a nonlinear optical material with a balance between deep-ultraviolet cut-off edge and large SHG response induced by hand-in-hand tetrahedra. Inorganic Chemistry Frontiers, 2019, 6, 914-919.	6.0	17
170	Ba₄(BS₃S)₂S₄: a new thioborate with unprecedented [BS₃-S] and [S₄] fundamental building blocks. Chemical Communications, 2019, 55, 14793-14796.	4.1	16
171	Mg(H2O)6B4O5(OH)4(H2O)3: a new hydrated borate with a short DUV cutoff edge. Dalton Transactions, 2019, 48, 17408-17413.	3.3	5
172	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.	3.3	46
173	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.	13.7	177
174	Pb₄B₆O₁₃: A Polar Lead Oxyborate with Uncommon ₂(B₆O₁₂)^{6â€“} Layers Exhibiting a Large Second Harmonic Generation Response. Inorganic Chemistry, 2019, 58, 1750-1754.	4.0	14
175	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NaPN</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>m</mml:mi> : Deep-ultraviolet nonlinear optical material with unprecedented strong second-harmonic generation coefficient. Physical Review Materials, 2019, 3, .	2.4	11
176	Effect of Element Substitution on Structural Transformation and Optical Performances in I₂BaM^{IV}Q₄ (I = Li, Na, Cu, and Ag; M^{IV} =) Tj ETQq0 0 0 rgBT /Overloc	4.0	51
177	K 3 B 6 O 9 F 3 : A New Fluorooxoborate with Four Different Anionic Units. Chemistry - A European Journal, 2018, 24, 4497-4502.	3.3	38
178	SrB₅O₇F₃ Functionalized with [B₅O₉F₃]^{6â¯} Chromophores: Accelerating the Rational Design of Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie, 2018, 130, 6203-6207.	2.0	108
179	A Series of Rare-Earth Borates K₇MRE₂B₁₅O₃₀ (M =) Tj ETQq1 1 0.784314 rgBT /O Materials, 2018, 30, 2414-2423.	6.7	73
180	SrB₅O₇F₃ Functionalized with [B₅O₉F₃]^{6â¯} Chromophores: Accelerating the Rational Design of Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie - International Edition, 2018, 57, 6095-6099.	13.8	581

#	Article	IF	Citations
181	BaBOF₃: a new aurivillius-like borate containing two types of F atoms. Dalton Transactions, 2018, 47, 5157-5160.	3.3	29
182	Microstructural evolution of amorphous Si 2 BC 3 N nanopowders upon heating at high temperatures: High pressures reverse the nucleation order of SiC and BN (C). Journal of the American Ceramic Society, 2018, 101, 4321-4330.	3.8	5
183	Polar Fluorooxoborate, NaB₄O₆F: A Promising Material for Ionic Conduction and Nonlinear Optics. Angewandte Chemie - International Edition, 2018, 57, 6577-6581.	13.8	368
184	CaB₅O₇F₃: A Beryllium-Free Alkaline-Earth Fluorooxoborate Exhibiting Excellent Nonlinear Optical Performances. Inorganic Chemistry, 2018, 57, 4820-4823.	4.0	136
185	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.	6.0	12
186	Polar Fluorooxoborate, NaB₄O₆F: A Promising Material for Ionic Conduction and Nonlinear Optics. Angewandte Chemie, 2018, 130, 6687-6691.	2.0	66
187	LiNa₄B₁₅O₂₅: Featuring Unprecedented B₁₅O₃₀ Fundamental Building Block and Deep-UV Cutoff Edge. Inorganic Chemistry, 2018, 57, 2876-2882.	4.0	16
188	LiCs₂La(BO₃)₂ and Li₃K₉La₃(BO₃)₇: new mixed alkali metal lanthanum borates with three-dimensional open frameworks and short cut-off edges. Dalton Transactions, 2018, 47, 3512-3520.	3.3	6
189	Functional Materials Design via Structural Regulation Originated from Ions Introduction: A Study Case in Cesium Iodate System. Chemistry of Materials, 2018, 30, 1136-1145.	6.7	72
190	Cationâ€Tuned Synthesis of Fluorooxoborates: Towards Optimal Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie, 2018, 130, 2172-2176.	2.0	131
191	Oxyhalides: prospecting ore for optical functional materials with large laser damage thresholds. Journal of Materials Chemistry C, 2018, 6, 2435-2442.	5.5	56
192	Cationâ€Tuned Synthesis of Fluorooxoborates: Towards Optimal Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie - International Edition, 2018, 57, 2150-2154.	13.8	527
193	A Member of Fluorooxoborates: Li₂Na_{0.9}K_{0.1}B₅O₈F₂ with the Fundamental Building Block B₅O₁₀F₂ and a Short Cutoff Edge. Inorganic Chemistry, 2018, 57, 873-878.	4.0	23
194	Computer-Assisted Design of a Superior Be₂BO₃F Deep-Ultraviolet Nonlinear-Optical Material. Inorganic Chemistry, 2018, 57, 5716-5719.	4.0	31
195	MBaYB6O12(M = Rb, Cs): two new rare-earth borates with large birefringence and short ultraviolet cutoff edges. Dalton Transactions, 2018, 47, 750-757.	3.3	28
196	NaBaMIIIQ3 (MIII = Al, Ga; Q = S, Se): first quaternary chalcogenides with isolated edge-sharing (MIII2Q6)6â¯ dimers. Dalton Transactions, 2018, 47, 16044-16047.	3.3	8
197	Designing an Excellent Deep-Ultraviolet Birefringent Material for Light Polarization. Journal of the American Chemical Society, 2018, 140, 16311-16319.	13.7	350
198	Two Lanthanide Borate Chlorides LnB₄O₆(OH)₂Cl (Ln = La, Ce) with Wide Ultraviolet Transmission Windows and Large Second-Harmonic Generation Responses. Inorganic Chemistry, 2018, 57, 14953-14960.	4.0	14

#	Article	IF	Citations
199	BaB₂S₄: An Efficient and Air-Stable Thioborate as Infrared Nonlinear Optical Material with High Laser Damage Threshold. Chemistry of Materials, 2018, 30, 7428-7432.	6.7	67
200	Li₂BaSc(BO₃)₂F and LiBa₂Pb(BO₃)₂F with Layered Structures featuring Special Liâ"O/F Configurations. Chemistry - A European Journal, 2018, 24, 15477-15481.	3.3	8
201	The first lead fluorooxoborate PbB₅O₈F: achieving the coexistence of large birefringence and deep-ultraviolet cut-off edge. Chemical Communications, 2018, 54, 6308-6311.	4.1	70
202	Combination of d 10 -cations and fluorine anion as active participants to design novel borate/carbonate nonlinear optical materials. Journal of Alloys and Compounds, 2018, 758, 85-90.	5.5	19
203	M^IM^{II}P₃O₉ (M^I = Rb, M^{II} = Cd,) Tj ETQq1 1 0.784314 rgB Substitution Application in Cyclophosphate Family and Nonlinear Optical Properties. Inorganic Chemistry, 2018, 57, 7372-7379.	4.0	26
204	Designing Deepâ€UV Birefringent Crystals by Cation Regulation. Chemistry - A European Journal, 2018, 24, 11267-11272.	3.3	47
205	K₁₁RbB₂₈O₄₈: a new triple-layered borate with an unprecedented [B₂₈O₅₇] fundamental building block. Dalton Transactions, 2018, 47, 10833-10836.	3.3	18
206	K₂TeP₂O₈: a new telluro-phosphate with a pentagonal Teâ€"Pâ€"O layer structure. Dalton Transactions, 2018, 47, 9453-9458.	3.3	20
207	Ba3Mg3(BO3)3F3 polymorphs with reversible phase transition and high performances as ultraviolet nonlinear optical materials. Nature Communications, 2018, 9, 3089.	12.8	314
208	The First Examples of Lithiumâ€Containing Mixedâ€Alkali Strontium Borates with Different Dimensional Anionic Architectures and Short Cutoff Edges. Chemistry - A European Journal, 2018, 24, 15355-15364.	3.3	14
209	Frontispiece: Designing Deep-UV Birefringent Crystals by Cation Regulation. Chemistry - A European Journal, 2018, 24, .	3.3	0
210	Module-Guided Design Scheme for Deep-Ultraviolet Nonlinear Optical Materials. Journal of the American Chemical Society, 2018, 140, 10726-10733.	13.7	127
211	Advantageous Units in Antimony Sulfides: Exploration and Design of Infrared Nonlinear Optical Materials. ACS Applied Materials & Interfaces, 2018, 10, 26413-26421.	8.0	77
212	Expanding Frontiers of Ultraviolet Nonlinear Optical Materials with Fluorophosphates. Chemistry of Materials, 2018, 30, 5397-5403.	6.7	193
213	Mo⁶⁺ Cation Enrichment of the Structure Chemistry of Iodates: Syntheses, Structures, and Calculations of Ba(MoO₂)₂(IO₃)₄O, Ba₃[(MoO₂)₂(IO₃)₄O(OH)₄]Â·2H₂O, and Sr[(MoO₂)₆(IO₄)₂O₄]Â·H₂O. Inorganic Chemistry, 2018, 57, 9376-9384.	4.0	21
214	Flexible coordination of Pb atoms and variable zincâ€"borate frameworks to construct three Pb5Zn4B6O18 polymorphs. Inorganic Chemistry Frontiers, 2018, 5, 2501-2507.	6.0	8
215	Intriguing Structural Transition Inducing Variable Birefringences in ABa2MS4Cl (A = Rb, Cs; M = Ge,) Tj ETQq1 1 0.784314 rgBT /Overlo	4.0	26
216	From LiB₃O₅ to NaRbB₆O₉F₂: Fluorineâ€Directed Evolution of Structural Chemistry. Chemistry - A European Journal, 2018, 24, 10022-10027.	3.3	30

#	Article	IF	Citations
217	A Fluorooxosilicophosphate with an Unprecedented SiO₂F₄ Species. Angewandte Chemie - International Edition, 2018, 57, 9828-9832.	13.8	40
218	NH4B11O16(OH)2: a new ammonium borate with wavy-shaped polycyclic 2âˆž[B11O16(OH)2] layers. New Journal of Chemistry, 2018, 42, 12091-12097.	2.8	20
219	A Fluorooxosilicophosphate with an Unprecedented SiO₂F₄ Species. Angewandte Chemie, 2018, 130, 9976-9980.	2.0	5
220	The first quaternary diamond-like semiconductor with 10-membered LiS₄rings exhibiting excellent nonlinear optical performances. Chemical Communications, 2017, 53, 3010-3013.	4.1	96
221	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.	6.7	112
222	Enhancing optical anisotropy of crystals by optimizing bonding electron distribution in anionic groups. Chemical Communications, 2017, 53, 2818-2821.	4.1	155
223	Fluorooxoborates: Beryllium–Free Deep–Ultraviolet Nonlinear Optical Materials without Layered Growth. Angewandte Chemie - International Edition, 2017, 56, 3916-3919.	13.8	674
224	Fluorooxoborates: Beryllium–Free Deep–Ultraviolet Nonlinear Optical Materials without Layered Growth. Angewandte Chemie, 2017, 129, 3974-3977.	2.0	94
225	Syntheses, crystal structures and characterization of three alkaline metal borates. CrystEngComm, 2017, 19, 2561-2569.	2.6	5
226	Na₈MB₂₁O₃₆ (M = Rb and Cs): Noncentrosymmetric Borates with Unprecedented [B₂₁O₃₆]^{9–} Fundamental Building Blocks. Inorganic Chemistry, 2017, 56, 5506-5509.	4.0	27
227	DFT-Based Comparative Study about the Influence of Fluorine and Hydroxyl Anions on Opto-Electric Properties of Borate Crystals: Choice for Better Anion. Inorganic Chemistry, 2017, 56, 5636-5645.	4.0	9
228	Ba_{n+2}Zn_n(BO₃)_n(B₂O₅)F_n(n) Tj ETQq0 0 0 Inorganic Chemistry Frontiers, 2017, 4, 281-288.	6.0	29
229	LiRb₂PO₄: a new deep-ultraviolet nonlinear optical phosphate with a large SHG response. Journal of Materials Chemistry C, 2017, 5, 269-274.	5.5	84
230	BaCu2MIVQ4(MIV= Si, Ge, and Sn; Q = S, Se): synthesis, crystal structures, optical performances and theoretical calculations. RSC Advances, 2017, 7, 29378-29385.	3.6	48
231	Growth, Properties, and Theoretical Analysis of M2LiVO4 (M‰=‰Rb, Cs) Crystals: Two Potential Mid-Infrared Nonlinear Optical Materials. Scientific Reports, 2017, 7, 1901.	3.3	25
232	Structure comparison and optical properties of Na₇Mg_{4.5}(P₂O₇)₄: a sodium magnesium phosphate with isolated P₂O₇units. New Journal of Chemistry, 2017, 41, 3399-3404.	2.8	17
233	Na₂B₆O₉F₂: 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
234	Frontispiece: Structural Insights into Borates with an Anion–Templated Open–Framework Configuration: Asymmetric K₂BaB₁₆O₂₆ versus Centrosymmetric K₃CsB₂₀O₃₂ and Na₂M₂NB₁₈O₃₀ (M=Rb, Cs; N=Ba, Pb). Chemistry - A European Journal, 2017, 23, .	3.3	0

#	Article	IF	Citations
235	Three Mixed-Alkaline Borates: Na₂M₂B₂₀O₃₂ (M = Rb,) Tj ETQq1 1 0.784314 rgBT Li₄Cs₄B₄₀O₆₄ with Fundamental Building Block B₄₀O₇₇. Inorganic Chemistry, 2017, 56, 13456-13463.	4.0	29
236	New Compressed Chalcopyrite-like Li₂BaM^{IV}Q₄ (M^{IV} =) Tj ETQq0 0 0 rgBT /Overloc Society, 2017, 139, 14885-14888.	13.7	201
237	ScMO(BO₃) (M = Ca and Cd): new Sc-based oxyborates featuring interesting edge-sharing sandwich-like chains and UV cut-off edges. Dalton Transactions, 2017, 46, 14839-14846.	3.3	13
238	CsB₄O₆F: A Congruentâ€Melting Deepâ€Ultraviolet Nonlinear Optical Material by Combining Superior Functional Units. Angewandte Chemie - International Edition, 2017, 56, 14119-14123.	13.8	654
239	CsB₄O₆F: A Congruentâ€Melting Deepâ€Ultraviolet Nonlinear Optical Material by Combining Superior Functional Units. Angewandte Chemie, 2017, 129, 14307-14311.	2.0	166
240	Finding the Next Deep-Ultraviolet Nonlinear Optical Material: NH₄B₄O₆F. Journal of the American Chemical Society, 2017, 139, 10645-10648.	13.7	889
241	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.	3.3	24
242	Second-harmonic generation in noncentrosymmetric phosphates. Physical Review B, 2017, 96, .	3.2	37
243	The activity of lone pair contributing to SHG response in bismuth borates: a combination investigation from experiment and DFT calculation. Physical Chemistry Chemical Physics, 2017, 19, 25270-25276.	2.8	20
244	Linear-to-Î»-Shape Pâ€“Oâ€“P Bond Transmutation in Polyphosphates with Infinite (PO₃)_{âˆž} Chain. Inorganic Chemistry, 2017, 56, 10139-10142.	4.0	13
245	Chemical Cosubstitution-Oriented Design of Rare-Earth Borates as Potential Ultraviolet Nonlinear Optical Materials. Journal of the American Chemical Society, 2017, 139, 18397-18405.	13.7	187
246	Na₂BaMQ₄ (M=Ge, Sn; Q=S, Se): Infrared Nonlinear Optical Materials with Excellent Performances and that Undergo Structural Transformations. Angewandte Chemie - International Edition, 2016, 55, 6713-6715.	13.8	172
247	Na₂ZnGe₂S₆: A New Infrared Nonlinear Optical Material with Good Balance between Large Second-Harmonic Generation Response and High Laser Damage Threshold. Journal of the American Chemical Society, 2016, 138, 7422-7428.	13.7	259
248	BaCdSnS₄and Ba₃CdSn₂S₈: syntheses, structures, and non-linear optical and photoluminescence properties. Dalton Transactions, 2016, 45, 10681-10688.	3.3	72
249	Na₂Hg₃M₂S₈ (M = Si, Ge, and Sn): New Infrared Nonlinear Optical Materials with Strong Second Harmonic Generation Effects and High Laser-Damage Thresholds. Chemistry of Materials, 2016, 28, 2795-2801.	6.7	156
250	â€œXA6â€•octahedra influencing the arrangement of anionic groups and optical properties in inverse-perovskite [B6O10]XA3(X = Cl, Br; A = alkali metal). Physical Chemistry Chemical Physics, 2016, 18, 15394-15398.	2.8	16
251	Role of the metal cation types around VO4 groups on the nonlinear optical behavior of materials: experimental and theoretical analysis. Dalton Transactions, 2016, 45, 14394-14402.	3.3	16
252	DFT Based Theoretical Study about the Contributions of Fluorine to Nonlinear Optical Properties in Borate Fluoride Crystals. Crystal Growth and Design, 2016, 16, 5067-5073.	3.0	20

#	Article	IF	Citations
253	A New Deep-Ultraviolet Transparent Orthophosphate LiCs₂PO₄ with Large Second Harmonic Generation Response. Journal of the American Chemical Society, 2016, 138, 9101-9104.	13.7	307
254	Nonlinear electronic polarization and optical response in borophosphate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BPO</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2016, 93, .	3.2	28
255	The mechanism of large second harmonic generation enhancement activated by Zn²⁺substitution. Physical Chemistry Chemical Physics, 2016, 18, 32931-32936.	2.8	31
256	Predicting Global Minimum in Complex Beryllium Borate System for Deep-ultraviolet Functional Optical Applications. Scientific Reports, 2016, 6, 34839.	3.3	24
257	Synthesis, Characterization, and Theoretical Studies of (Pb₄O)Pb₂B₆O₁₄: A New Lead(II) Borate with Isolated Oxygen-Centered Pb₄O Tetrahedra and Large Second Harmonic Generation Response. Journal of Physical Chemistry C, 2016, 120, 12757-12764.	3.1	39
258	Hierarchized band gap and enhanced optical responses of trivalent rare-earth metal nitrates due to (dâ€“p)Ï€ conjugation interactions. Journal of Materials Chemistry C, 2016, 4, 6295-6301.	5.5	16
259	NaBa₄(GaB₄O₉)₂X₃ (X = Cl, Br) with NLO-Active GaO₄ Tetrahedral Unit: Experimental and ab Initio Studies. Journal of Physical Chemistry C, 2016, 120, 6190-6197.	3.1	22
260	Active performance of tetrahedral groups to SHG response: theoretical interpretations of Ge/Si-containing borate crystals. Physical Chemistry Chemical Physics, 2016, 18, 6077-6084.	2.8	3
261	Three new phosphates with isolated P₂O₇units: noncentrosymmetric Cs₂Ba₃(P₂O₇)₂and centrosymmetric Cs₂BaP₂O₇and LiCsBaP₂O₇. Dalton Transactions, 2016, 45, 3936-3942.	3.3	62
262	Effect of the tetrahedral groups on the optical properties of LaBRO5 (Râ€‰=â€‰Si and Ge): A first-principles study. Journal of Applied Physics, 2015, 118, .	2.5	9
263	Evidence of â€œnew hot spotsâ€•from determining the nonlinear optical behavior of materials: mechanistic studies of the vanadium borate crystal, Na₃VO₂B₆O₁₁. Physical Chemistry Chemical Physics, 2015, 17, 5338-5344.	2.8	15
264	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.	3.3	39
265	Simulated pressure-induced blue-shift of phase-matching region and nonlinear optical mechanism for K3B6O10X (Xâ€‰=â€‰Cl, Br). Applied Physics Letters, 2015, 106, .	3.3	121
266	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.	13.7	181
267	Pb₂Ba₃(BO₃)₃Cl: A Material with Large SHG Enhancement Activated by Pb-Chelated BO₃ Groups. Journal of the American Chemical Society, 2015, 137, 9417-9422.	13.7	255
268	Contribution of lone-pairs to birefringence affected by the Pb(<scp>ii</scp>) coordination environment: a DFT investigation. Physical Chemistry Chemical Physics, 2015, 17, 21968-21973.	2.8	55
269	Polar Polymorphism: Î±-, Î²-, and Î³-Pb₂Ba₄Zn₄B₁₄O₃₁â€“Synthesis, Characterization, and Nonlinear Optical Properties. Chemistry of Materials, 2015, 27, 4779-4788.	6.7	75
270	Synthesis and Characterization of Mid-Infrared Transparency Compounds: Acentric BaHgS2and Centric Ba8Hg4S5Se7. Inorganic Chemistry, 2015, 54, 2772-2779.	4.0	47

#	Article	IF	Citations
271	The lone-pairs enhanced birefringence and SHG response: A DFT investigation on M2B5O9Cl (M=Sr, Ba,) Tj ETQq1 1 0.784314 rgBT /Ove	1.9	36
272	Na₄MgM₂Se₆ (M = Si, Ge): The First Noncentrosymmetric Compounds with Special Ethane-like [M₂Se₆]^{6â€“} Units Exhibiting Large Laser-Damage Thresholds. Inorganic Chemistry, 2015, 54, 10108-10110.	4.0	54
273	An investigation of new infrared nonlinear optical material: BaCdSnSe₄, and three new related centrosymmetric compounds: Ba₂SnSe₄, Mg₂GeSe₄, and Ba₂Ge₂S₆. Dalton Transactions, 2015, 44, 19856-19864.	3.3	67
274	Theoretical perspective of the lone pair activity influence on band gap and SHG response of lead borates. RSC Advances, 2015, 5, 79882-79887.	3.6	22
275	Anomalous second-harmonic generation response in SrBPO₅and BaBPO₅. Journal of Materials Chemistry C, 2015, 3, 1557-1566.	5.5	34
276	Na₃Ba₂(B₃O₆)₂F: Next Generation of Deep-Ultraviolet Birefringent Materials. Crystal Growth and Design, 2015, 15, 523-529.	3.0	159
277	Borate Fluoride and Fluoroborate in Alkali-Metal Borate Prepared by an Open High-Temperature Solution Method. Inorganic Chemistry, 2014, 53, 12686-12688.	4.0	50
278	Pb3B6O11F2: the first non-centrosymmetric lead borate fluoride with a large second harmonic generation response. Journal of Materials Chemistry C, 2014, 2, 1704.	5.5	55
279	First Principle Assisted Prediction of the Birefringence Values of Functional Inorganic Borate Materials. Journal of Physical Chemistry C, 2014, 118, 25651-25657.	3.1	67
280	Pb4Zn2B10O21: a congruently melting lead zinc borate with a novel [B10O24] anionic group and an interesting [Pb4O12]â^žchain. New Journal of Chemistry, 2014, 38, 285-291.	2.8	27
281	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.	5.5	52
282	Ba2B10O17: a new centrosymmetric alkaline-earth metal borate with a deep-UV cut-off edge. Dalton Transactions, 2014, 43, 8905-8910.	3.3	44
283	Effect of Halogen (Cl, Br) on the Symmetry of Flexible Perovskite-Related Framework. Inorganic Chemistry, 2014, 53, 11213-11220.	4.0	30
284	The interaction between cations and anionic groups inducing SHG enhancement in a series of apatite-like crystals: A first-principles study. Journal of Solid State Chemistry, 2014, 219, 138-142.	2.9	23
285	Cs₃Zn₆B₉O₂₁: A Chemically Benign Member of the KBBF Family Exhibiting the Largest Second Harmonic Generation Response. Journal of the American Chemical Society, 2014, 136, 1264-1267.	13.7	310
286	Linear and Nonlinear Optical Properties of K₃B₆O₁₀Br Single Crystal: Experiment and Calculation. Journal of Physical Chemistry C, 2014, 118, 11849-11856.	3.1	73
287	Effect of Rigid Units on the Symmetry of the Framework: Design and Synthesis of Centrosymmetric NaBa4(B5O9)2F2Cl and Noncentrosymmetric NaBa4(AlB4O9)2Br3. Crystal Growth and Design, 2013, 13, 3514-3521.	3.0	43
288	New Molybdenum(VI) Phosphates: Synthesis, Characterization, and Calculations of Centrosymmetric RbMoO2PO4 and Noncentrosymmetric Rb4Mo5P2O22. Inorganic Chemistry, 2013, 52, 1488-1495.	4.0	31

#	Article	IF	Citations
289	M₂Cd₃B₁₆O₂₈ (M = Rb, Cs): Two Isostructural Alkali Cadmium Borates with a New Type of Borate Layer. European Journal of Inorganic Chemistry, 2013, 2013, 203-207.	2.0	28
290	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.	2.4	16
291	Designing a Deep-Ultraviolet Nonlinear Optical Material with a Large Second Harmonic Generation Response. Journal of the American Chemical Society, 2013, 135, 4215-4218.	13.7	542
292	Experimental and Theoretical Studies on the Linear and Nonlinear Optical Properties of Bi₂ZnOB₂O₆. Journal of Physical Chemistry C, 2013, 117, 14149-14157.	3.1	54
293	New Salt-Inclusion Borate, Li₃Ca₉(BO₃)₇Â·2[LiF]: A Promising UV NLO Material with the Coplanar and High Density BO₃ Triangles. Inorganic Chemistry, 2013, 52, 5359-5365.	4.0	48
294	A new congruent-melting oxyborate, Pb₄O(BO₃)₂with optimally aligned BO₃triangles adopting layered-type arrangement. Journal of Materials Chemistry, 2012, 22, 2105-2110.	6.7	108
295	A novel deep UV nonlinear optical crystal Ba3B6O11F2, with a new fundamental building block, B6O14 group. Journal of Materials Chemistry, 2012, 22, 9665.	6.7	177
296	Synthesis, crystal structure and characterization of a new compound, Li3NaBaB6O12. Solid State Sciences, 2012, 14, 1186-1190.	3.2	22
297	Li2Sr4B12O23: A new alkali and alkaline-earth metal mixed borate with [B10O18]6âˆ’ network and isolated [B2O5]4âˆ’ unit. Journal of Solid State Chemistry, 2012, 190, 92-97.	2.9	21
298	Two deep-ultraviolet nonlinear optical monolayers obtained by a template-optimized design strategy. Inorganic Chemistry Frontiers, 0, , .	6.0	2
299	Strong Nonlinearity Induced by Coaxial Alignment of Polar Chain and Dense [BO ₃] Units in CaZn ₂ (BO ₃) ₂. Angewandte Chemie, 0, , .	2.0	9
300	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, , .	2.0	2