Zhihua Yang

List of Publications by Year
in descending order

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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	Finding the Next Deep-Ultraviolet Nonlinear Optical Material: NH₄B₄O₆F. Journal of the American Chemical Society, 2017, 139, 10645-10648.	13.7	889
2	Fluorooxoborates: Berylliumâ€Free Deepâ€Ultraviolet Nonlinear Optical Materials without Layered Growth. Angewandte Chemie - International Edition, 2017, 56, 3916-3919.	13.8	674
3	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
4	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
5	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
6	Cationâ€Tuned Synthesis of Fluorooxoborates: Towards Optimal Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie - International Edition, 2018, 57, 2150-2154.	13.8	527
7	Polar Fluorooxoborate, NaB₄O₆F: A Promising Material for Ionic Conduction and Nonlinear Optics. Angewandte Chemie - International Edition, 2018, 57, 6577-6581.	13.8	368
8	Designing an Excellent Deep-Ultraviolet Birefringent Material for Light Polarization. Journal of the American Chemical Society, 2018, 140, 16311-16319.	13.7	350
9	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
10	Ba3Mg3(BO3)3F3 polymorphs with reversible phase transition and high performances as ultraviolet nonlinear optical materials. Nature Communications, 2018, 9, 3089.	12.8	314
11	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
12	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
13	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
14	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
15	New Compressed Chalcopyrite-like Li₂BaM^{IV}Q₄ (M^{IV} =) Tj ETQq1 1 0.784314 rgBT Society, 2017, 139, 14885-14888.	13.7	201
16	Expanding Frontiers of Ultraviolet Nonlinear Optical Materials with Fluorophosphates. Chemistry of Materials, 2018, 30, 5397-5403.	6.7	193
17	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
18	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

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19	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
20	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
21	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
22	Sn₂B₅O₉Cl: A Material with Large Birefringence Enhancement Activated Prepared via Alkalineâ€Earthâ€Metal Substitution by Tin. Angewandte Chemie - International Edition, 2019, 58, 17675-17678.	13.8	171
23	CsB₄O₆F: A Congruentâ€Melting Deepâ€Ultraviolet Nonlinear Optical Material by Combining Superior Functional Units. Angewandte Chemie, 2017, 129, 14307-14311.	2.0	166
24	Na₃Ba₂(B₃O₆)₂F: Next Generation of Deep-Ultraviolet Birefringent Materials. Crystal Growth and Design, 2015, 15, 523-529.	3.0	159
25	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
26	Enhancing optical anisotropy of crystals by optimizing bonding electron distribution in anionic groups. Chemical Communications, 2017, 53, 2818-2821.	4.1	155
27	CaB₅O₇F₃: A Beryllium-Free Alkaline-Earth Fluorooxoborate Exhibiting Excellent Nonlinear Optical Performances. Inorganic Chemistry, 2018, 57, 4820-4823.	4.0	136
28	Cationâ€Tuned Synthesis of Fluorooxoborates: Towards Optimal Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie, 2018, 130, 2172-2176.	2.0	131
29	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
30	Module-Guided Design Scheme for Deep-Ultraviolet Nonlinear Optical Materials. Journal of the American Chemical Society, 2018, 140, 10726-10733.	13.7	127
31	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
32	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
33	Potential optical functional crystals with large birefringence: Recent advances and future prospects. Coordination Chemistry Reviews, 2022, 459, 214380.	18.8	114
34	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
35	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
36	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

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37	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
38	CsAlB₃O₆F: a beryllium-free deep-ultraviolet nonlinear optical material with enhanced thermal stability. Chemical Science, 2020, 11, 694-698.	7.4	108
39	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
40	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
41	Expanding the chemistry of borates with functional [BO2]â^' anions. Nature Communications, 2021, 12, 2597.	12.8	99
42	The first quaternary diamond-like semiconductor with 10-membered LiS₄rings exhibiting excellent nonlinear optical performances. Chemical Communications, 2017, 53, 3010-3013.	4.1	96
43	Fluorooxoborates: Beryllâ€Free Deepâ€Ultraviolet Nonlinear Optical Materials without Layered Growth. Angewandte Chemie, 2017, 129, 3974-3977.	2.0	94
44	Second Harmonic Generation Susceptibilities from Symmetry Adapted Wannier Functions. Physical Review Letters, 2020, 125, 187402.	7.8	94
45	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
46	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
47	PbB₅O₇F₃: A High-Performing Short-Wavelength Nonlinear Optical Material. Chemistry of Materials, 2020, 32, 2172-2179.	6.7	88
48	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
49	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
50	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
51	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
52	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
53	Structure-property survey and computer-assisted screening of mid-infrared nonlinear optical chalcohalides. Coordination Chemistry Reviews, 2020, 421, 213379.	18.8	78
54	Advantageous Units in Antimony Sulfides: Exploration and Design of Infrared Nonlinear Optical Materials. ACS Applied Materials & Interfaces, 2018, 10, 26413-26421.	8.0	77

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55	Series of Crystals with Giant Optical Anisotropy: A Targeted Strategic Research. Angewandte Chemie - International Edition, 2021, 60, 1332-1338.	13.8	77
56	Polar Polymorphism: Î±-, Î²-, and Î³-Pb₂Ba₄Zn₄B₁₄O₃₁â€“Synthesis, Characterization, and Nonlinear Optical Properties. Chemistry of Materials, 2015, 27, 4779-4788.	6.7	75
57	æ·±ç´«å–æºŸåŒ–ç¡¼é…ç›žåŒæŠ˜å°„çŽ‡å'ŒæŠ˜å°„çŽ‡è‰²æ•£çš„æ€§èƒ½ å¢žç›Šç”¨ç©¶. Science China Materials, 2020, 63, 1480-14	6.8	75
58	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
59	Linear and Nonlinear Optical Properties of K₃B₆O₁₀Br Single Crystal: Experiment and Calculation. Journal of Physical Chemistry C, 2014, 118, 11849-11856.	3.1	73
60	A Series of Rare-Earth Borates K₇MRE₂B₁₅O₃₀ (M =) Tj ETQq0 0 0 rgBT /Overlock 1 Materials, 2018, 30, 2414-2423.	6.7	73
61	BaCdSnS₄and Ba₃CdSn₂S₈: syntheses, structures, and non-linear optical and photoluminescence properties. Dalton Transactions, 2016, 45, 10681-10688.	3.3	72
62	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
63	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
64	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
65	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
66	(NH4)3B11PO19F3: a deep-UV nonlinear optical crystal with unique [B5PO10F]â^ž layers. National Science Review, 2022, 9, .	9.5	68
67	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
68	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
69	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
70	Guanidinium Fluorooxoborates as Efficient Metal-free Short-Wavelength Nonlinear Optical Crystals. Chemistry of Materials, 2022, 34, 440-450.	6.7	67
71	Polar Fluorooxoborate, NaB₄O₆F: A Promising Material for Ionic Conduction and Nonlinear Optics. Angewandte Chemie, 2018, 130, 6687-6691.	2.0	66
72	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

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73	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
74	Three new phosphates with isolated P₂O₇units: noncentrosymmetric Cs₂Ba₃(P₂O₇)₂and centrosymmetric Cs₂BaP₂O₇and LiCsBaP₂O₇. Dalton Transactions, 2016, 45, 3936-3942.	3.3	62
75	Two Polar Molybdenum(VI) Iodates(V) with Large Second-Harmonic Generation Responses. Chemistry of Materials, 2019, 31, 2992-3000.	6.7	60
76	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
77	Oxyhalides: prospecting ore for optical functional materials with large laser damage thresholds. Journal of Materials Chemistry C, 2018, 6, 2435-2442.	5.5	56
78	Nontoxic KBBF Family Member Zn₂BO₃(OH): Balance between Beneficial Layered Structure and Layer Tendency. Advanced Science, 2019, 6, 1901679.	11.2	56
79	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
80	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
81	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
82	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
83	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
84	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
85	Effect of Element Substitution on Structural Transformation and Optical Performances in I₂BaM^{IV}Q₄ (I = Li, Na, Cu, and Ag; M^{IV} =) Tj ETQq1 1 0.784314 rgBT	4.1	48
86	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
87	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
88	Sn₂B₅O₉Br as an Outstanding Bifunctional Material with Strong Secondâ€Harmonic Generation Effect and Large Birefringence. Advanced Optical Materials, 2021, 9, 2001734.	7.3	49
89	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
90	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

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91	Synthesis and Characterization of Mid-Infrared Transparency Compounds: Acentric BaHgS2and Centric Ba8Hg4S5Se7. Inorganic Chemistry, 2015, 54, 2772-2779.	4.0	47
92	Designing Deepâ€UV Birefringent Crystals by Cation Regulation. Chemistry - A European Journal, 2018, 24, 11267-11272.	3.3	47
93	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
94	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
95	BaB8O12F2: a promising deep-UV birefringent material. Inorganic Chemistry Frontiers, 2019, 6, 546-549.	6.0	45
96	Ba2B10O17: a new centrosymmetric alkaline-earth metal borate with a deep-UV cut-off edge. Dalton Transactions, 2014, 43, 8905-8910.	3.3	44
97	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
98	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
99	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
100	A Fluorooxosilicophosphate with an Unprecedented SiO₂F₄ Species. Angewandte Chemie - International Edition, 2018, 57, 9828-9832.	13.8	40
101	ZnIO₃F: Zinc Iodate Fluoride with Large Birefringence and Wide Band Gap. Inorganic Chemistry, 2020, 59, 4172-4175.	4.0	40
102	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
103	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
104	Li₄Na₂CsB₇O₁₄: a new edge-sharing [BO₄]^{5â¯} tetrahedra containing borate with high anisotropic thermal expansion. Chemical Communications, 2019, 55, 1295-1298.	4.1	39
105	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
106	Second-harmonic generation in noncentrosymmetric phosphates. Physical Review B, 2017, 96, .	3.2	37
107	The lone-pairs enhanced birefringence and SHG response: A DFT investigation on M2B5O9Cl (M=Sr, Ba,) Tj ETQq1 1 0.784314 rgBT /O	1.9	36
108	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

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109	Anomalous second-harmonic generation response in SrBPO₅and BaBPO₅. Journal of Materials Chemistry C, 2015, 3, 1557-1566.	5.5	34
110	Promising Deepâ€Ultraviolet Birefringent Materials via Rational Design and Assembly of Planar Ï€â€Conjugated [B(OH)₃] and [B₃O₃(OH)₃] Functional Species. Angewandte Chemie - International Edition, 2022, 61, .	13.8	34
111	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
112	Experimental characterization and first principles calculations of linear and nonlinear optical properties of two orthophosphates A₃Al₂(PO₄)₃(A =) Tj ETQq0 0 0 rgBT /Overlock	6.0	32
113	New Molybdenum(VI) Phosphates: Synthesis, Characterization, and Calculations of Centrosymmetric RbMoO2PO4 and Noncentrosymmetric Rb4Mo5P2O22. Inorganic Chemistry, 2013, 52, 1488-1495.	4.0	31
114	The mechanism of large second harmonic generation enhancement activated by Zn²⁺substitution. Physical Chemistry Chemical Physics, 2016, 18, 32931-32936.	2.8	31
115	Computer-Assisted Design of a Superior Be₂BO₃F Deep-Ultraviolet Nonlinear-Optical Material. Inorganic Chemistry, 2018, 57, 5716-5719.	4.0	31
116	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
117	Alignment of Polar Moieties Leading to Strong Second Harmonic Response in KCsMoP₂O₉. Chemistry of Materials, 2020, 32, 3297-3303.	6.7	31
118	Effect of Halogen (Cl, Br) on the Symmetry of Flexible Perovskite-Related Framework. Inorganic Chemistry, 2014, 53, 11213-11220.	4.0	30
119	From LiB₃O₅ to NaRbB₆O₉F₂: Fluorineâ€Directed Evolution of Structural Chemistry. Chemistry - A European Journal, 2018, 24, 10022-10027.	3.3	30
120	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
121	Ba_{n+2}Zn_n(BO₃)_n(B₂O₅)F_n(n) Tj ETQq1 1 0 Inorganic Chemistry Frontiers, 2017, 4, 281-288.	6.0	29
122	Three Mixed-Alkaline Borates: Na₂M₂B₂₀O₃₂ (M = Rb,) Tj ETQq0 0 0 rgBT /Overloc Li₄Cs₄B₄₀O₆₄ with Fundamental Building Block B₄₀O₇₇. Inorganic Chemistry, 2017, 56, 13456-13463.	4.0	29
123	BaBOF₃: a new aurivillius-like borate containing two types of F atoms. Dalton Transactions, 2018, 47, 5157-5160.	3.3	29
124	Sn₂B₅O₉Cl: A Material with Large Birefringence Enhancement Activated Prepared via Alkalineâ€Earthâ€Metal Substitution by Tin. Angewandte Chemie, 2019, 131, 17839-17842.	2.0	29
125	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
126	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

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127	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
128	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
129	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
130	[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
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132	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
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