Miriding Mutailipu

List of Publications by Year
in descending order

57 papers	3,914 citations	218381 26 h-index	161609 54 g-index
59 all docs	59 docs citations	59 times ranked	977 citing authors

#	Article	IF	Citations
1	SrB₅O₇F₃ Functionalized with [B₅O₉F₃]^{6âˆ’} Chromophores: Accelerating the Rational Design of Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie - International Edition, 2018, 57, 6095-6099.	7.2	581
2	Borates: A Rich Source for Optical Materials. Chemical Reviews, 2021, 121, 1130-1202.	23.0	534
3	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
4	Ba3Mg3(BO3)3F3 polymorphs with reversible phase transition and high performances as ultraviolet nonlinear optical materials. Nature Communications, 2018, 9, 3089.	5.8	314
5	Emergent Deepâ€Ultraviolet Nonlinear Optical Candidates. Angewandte Chemie - International Edition, 2020, 59, 20302-20317.	7.2	203
6	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
7	Strong Nonlinearity Induced by Coaxial Alignment of Polar Chain and Dense [BO₃] Units in CaZn₂(BO₃)₂. Angewandte Chemie - International Edition, 2022, 61, .	7.2	116
8	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
9	Discovery of First Magnesium Fluorooxoborate with Stable Fluorine Terminated Framework for Deepâ€UV Nonlinear Optical Application. Angewandte Chemie - International Edition, 2021, 60, 14650-14656.	7.2	109
10	SrB₅O₇F₃ Functionalized with [B₅O₉F₃]^{6âˆ’} Chromophores: Accelerating the Rational Design of Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie, 2018, 130, 6203-6207.	1.6	108
11	Expanding the chemistry of borates with functional [BO2]âˆ’ anions. Nature Communications, 2021, 12, 2597.	5.8	99
12	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.	7.2	90
13	PbB₅O₇F₃: A High-Performing Short-Wavelength Nonlinear Optical Material. Chemistry of Materials, 2020, 32, 2172-2179.	3.2	88
14	Toward the Enhancement of Critical Performance for Deep-Ultraviolet Frequency-Doubling Crystals Utilizing Covalent Tetrahedra. Accounts of Materials Research, 2021, 2, 282-291.	5.9	82
15	A Series of Rare-Earth Borates K₇MRE₂B₁₅O₃₀ (M =) Tj ETQq1 1 0.784314 rgBT /O Materials, 2018, 30, 2414-2423.	3.2	73
16	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
17	Doubleâ€Modification Oriented Design of a Deepâ€UV Birefringent Crystal Functionalized by [B₁₂O₁₆F₄(OH)₄] Clusters. Angewandte Chemie - International Edition, 2022, 61, .	7.2	70
18	(NH4)3B11PO19F3: a deep-UV nonlinear optical crystal with unique [B5PO10F]âˆž layers. National Science Review, 2022, 9, .	4.6	68

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19	Guanidinium Fluorooxoborates as Efficient Metal-free Short-Wavelength Nonlinear Optical Crystals. Chemistry of Materials, 2022, 34, 440-450.	3.2	67
20	Oxyhalides: prospecting ore for optical functional materials with large laser damage thresholds. Journal of Materials Chemistry C, 2018, 6, 2435-2442.	2.7	56
21	Li₄Na₂CsB₇O₁₄: a new edge-sharing [BO₄]^{5â^'} tetrahedra containing borate with high anisotropic thermal expansion. Chemical Communications, 2019, 55, 1295-1298.	2.2	39
22	Neue Kandidaten fÃ¼r die nichtlineare Optik im Tiefâ€UVâ€Bereich. Angewandte Chemie, 2020, 132, 20480-20496.	1.6	39
23	The mechanism of large second harmonic generation enhancement activated by Zn²⁺substitution. Physical Chemistry Chemical Physics, 2016, 18, 32931-32936.	1.3	31
24	Computer-Assisted Design of a Superior Be₂BO₃F Deep-Ultraviolet Nonlinear-Optical Material. Inorganic Chemistry, 2018, 57, 5716-5719.	1.9	31
25	Ba_{n+2}Zn_n(BO₃)_n(B₂O₅)F_n(n) Tj ETQq1 1 0 Inorganic Chemistry Frontiers, 2017, 4, 281-288.	3.0	29
26	[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.	2.7	28
27	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
28	Na₈MB₂₁O₃₆ (M = Rb and Cs): Noncentrosymmetric Borates with Unprecedented [B₂₁O₃₆]^{9â€"} Fundamental Building Blocks. Inorganic Chemistry, 2017, 56, 5506-5509.	1.9	27
29	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
30	Finding a Series of BaBOF₃ Fluorooxoborate Polymorphs with Tunable Symmetries: A Simple but Flexible Case. Chemistry of Materials, 2021, 33, 7905-7913.	3.2	22
31	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.	1.3	20
32	(N₂H₆)[HPO₃F]₂: maximizing the optical anisotropy of deep-ultraviolet fluorophosphates. Chemical Communications, 2022, 58, 5594-5597.	2.2	18
33	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
34	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
35	Cs₄B₄O₃F₁₀: First Fluorooxoborate with [BF₄] Involving Heteroanionic Units and Extremely Low Melting Point. Chemistry - A European Journal, 2021, 27, 9753-9757.	1.7	16
36	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.	1.4	15

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37	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
38	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.	1.9	14
39	Research and Development of Zincoborates: Crystal Growth, Structural Chemistry and Physicochemical Properties. Molecules, 2019, 24, 2763.	1.7	14
40	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.	1.6	14
41	Discovery of First Magnesium Fluorooxoborate with Stable Fluorine Terminated Framework for Deepâ€UV Nonlinear Optical Application. Angewandte Chemie, 2021, 133, 14771-14777.	1.6	13
42	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.	1.9	13
43	Structural insights into three phosphates with distinct polyanionic configurations. Dalton Transactions, 2019, 48, 13406-13412.	1.6	10
44	A Promising Fluorooxoborate Framework with Flexibile Capability for Diverse Cations to Enhance the Second Harmonic Generation. Chemistry - A European Journal, 2020, 26, 3723-3728.	1.7	10
45	Identical in Formula but Not Isotypic in Configuration: Discovery of a New Highly Polymerized [B₁₂O₂₄] Cluster in Cs₃AlB₆O₁₂. Inorganic Chemistry, 2021, 60, 15131-15135.	1.9	9
46	Strong Nonlinearity Induced by Coaxial Alignment of Polar Chain and Dense [BO ₃] Units in CaZn ₂ (BO ₃) ₂. Angewandte Chemie, 0, , .	1.6	9
47	Enhanced gas-sensing performance of one-pot-synthesized Pt/CdIn₂O₄ composites with controlled morphologies. Analytical Methods, 2015, 7, 1085-1091.	1.3	8
48	Rb₃BaTeB₇O₁₅: a novel [B₇O₁₆] fundamental building block in a new telluroborate with [TeO₃] polyhedra. Dalton Transactions, 2020, 49, 8911-8917.	1.6	7
49	BaZn₃(BO₃)₂F₂: a new beryllium-free zincoborate with a KBBF-type structure. Dalton Transactions, 2021, 50, 13216-13219.	1.6	7
50	Cation Substitution of Hexagonal Triple Perovskites: A Case in Trimetallic Tellurates A2Aâ€²BTe2O9. Inorganic Chemistry, 2021, 60, 6099-6106.	1.9	6
51	RbMT₃(BO₃)₂O₃ (M=Ba, Sr; T=Al, Ga): New Doubleâ€Layered Oxyborates Constructed from [BO₃] Triangles and [TO₄] Tetrahedra. Chemistry - A European Journal, 2021, 27, 8698-8703.	1.7	6
52	Manipulation of birefringence via substitution of Sr²⁺by Pb²⁺based on the structure model of LiSr_{1âˆ'x}Pb_xBO₃(0 â‰ x â‰ 0.5). New Journal of Chemistry, 2016, 40, 6120-6126.	1.4	5
53	BaGeO3: A Mid-IR Transparent Crystal with Superstrong Raman Response. Inorganic Chemistry, 2020, 59, 3542-3545.	1.9	3
54	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.	2.8	3

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55	Doubleâ€Modification Oriented Design of a Deepâ€UV Birefringent Crystal Functionalized by [B12O16F4(OH)4] Cluster. Angewandte Chemie, 0, , .	1.6	3
56	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
57	InnenrÃ¼cktitelbild: SrB₅O₇F₃ Functionalized with [B₅O₉F₃]^{6âˆ’} Chromophores: Accelerating the Rational Design of Deepâ€Ultraviolet Nonlinear Optical Materials (Angew. Chem. 21/2018). Angewandte Chemie, 2018, 130, 6461-6461.	1.6	0