Shilie Pan

List of Publications by Year
in descending order

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503 papers	24,233 citations	10351 72 h-index	12558 132 g-index
511 all docs	511 docs citations	511 times ranked	3303 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.	6.6	889
2	Fluorooxoborates: Berylliumâ€Free Deepâ€Ultraviolet Nonlinear Optical Materials without Layered Growth. Angewandte Chemie - International Edition, 2017, 56, 3916-3919.	7.2	674
3	CsB₄O₆F: A Congruentâ€Melting Deepâ€Ultraviolet Nonlinear Optical Material by Combining Superior Functional Units. Angewandte Chemie - International Edition, 2017, 56, 14119-14123.	7.2	654
4	K₃B₆O₁₀Cl: A New Structure Analogous to Perovskite with a Large Second Harmonic Generation Response and Deep UV Absorption Edge. Journal of the American Chemical Society, 2011, 133, 7786-7790.	6.6	617
5	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
6	Designing a Deep-Ultraviolet Nonlinear Optical Material with a Large Second Harmonic Generation Response. Journal of the American Chemical Society, 2013, 135, 4215-4218.	6.6	542
7	Borates: A Rich Source for Optical Materials. Chemical Reviews, 2021, 121, 1130-1202.	23.0	534
8	Cationâ€Tuned Synthesis of Fluorooxoborates: Towards Optimal Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie - International Edition, 2018, 57, 2150-2154.	7.2	527
9	Polar Fluorooxoborate, NaB₄O₆F: A Promising Material for Ionic Conduction and Nonlinear Optics. Angewandte Chemie - International Edition, 2018, 57, 6577-6581.	7.2	368
10	Designing an Excellent Deep-Ultraviolet Birefringent Material for Light Polarization. Journal of the American Chemical Society, 2018, 140, 16311-16319.	6.6	350
11	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
12	Ba3Mg3(BO3)3F3 polymorphs with reversible phase transition and high performances as ultraviolet nonlinear optical materials. Nature Communications, 2018, 9, 3089.	5.8	314
13	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.	6.6	310
14	A New Deep-Ultraviolet Transparent Orthophosphate LiCs₂PO₄ with Large Second Harmonic Generation Response. Journal of the American Chemical Society, 2016, 138, 9101-9104.	6.6	307
15	Recent development of metal borate halides: Crystal chemistry and application in second-order NLO materials. Coordination Chemistry Reviews, 2016, 323, 15-35.	9.5	272
16	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.	6.6	259
17	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.	6.6	255
18	Cs₂B₄SiO₉: A Deepâ€Ultraviolet Nonlinear Optical Crystal. Angewandte Chemie - International Edition, 2013, 52, 3406-3410.	7.2	249

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19	Synthesis, Crystal Structure, and Nonlinear Optical Properties of Li6CuB4O10:Â a Congruently Melting Compound with Isolated [CuB4O10]6-Units. Journal of the American Chemical Society, 2006, 128, 11631-11634.	6.6	219
20	Emergent Deepâ€Ultraviolet Nonlinear Optical Candidates. Angewandte Chemie - International Edition, 2020, 59, 20302-20317.	7.2	203
21	New Compressed Chalcopyrite-like Li₂BaM^{IV}Q₄ (M^{IV} =) Tj ETQq1 1 0.784314 rgBT Society, 2017, 139, 14885-14888.	6.6	201
22	NH₄Be₂BO₃F₂ and Î³â€Be₂BO₃F: Overcoming the Layering Habit in KBe₂BO₃F₂ for the Nextâ€Generation Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie - International Edition, 2018, 57, 8968-8972.	7.2	200
23	Expanding Frontiers of Ultraviolet Nonlinear Optical Materials with Fluorophosphates. Chemistry of Materials, 2018, 30, 5397-5403.	3.2	193
24	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
25	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
26	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
27	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
28	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.	7.2	172
29	Sn₂B₅O₉Cl: A Material with Large Birefringence Enhancement Activated Prepared via Alkalineâ€Earthâ€Metal Substitution by Tin. Angewandte Chemie - International Edition, 2019, 58, 17675-17678.	7.2	171
30	CsB₄O₆F: A Congruentâ€Melting Deepâ€Ultraviolet Nonlinear Optical Material by Combining Superior Functional Units. Angewandte Chemie, 2017, 129, 14307-14311.	1.6	166
31	Enhancing optical anisotropy of crystals by optimizing bonding electron distribution in anionic groups. Chemical Communications, 2017, 53, 2818-2821.	2.2	155
32	Growth, Structure, and Properties of Single Crystals of SrBPO5. Chemistry of Materials, 2003, 15, 2218-2221.	3.2	154
33	CaB₅O₇F₃: A Beryllium-Free Alkaline-Earth Fluorooxoborate Exhibiting Excellent Nonlinear Optical Performances. Inorganic Chemistry, 2018, 57, 4820-4823.	1.9	136
34	Cationâ€Tuned Synthesis of Fluorooxoborates: Towards Optimal Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie, 2018, 130, 2172-2176.	1.6	131
35	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.	7.2	130
36	Module-Guided Design Scheme for Deep-Ultraviolet Nonlinear Optical Materials. Journal of the American Chemical Society, 2018, 140, 10726-10733.	6.6	127

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37	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
38	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
39	Potential optical functional crystals with large birefringence: Recent advances and future prospects. Coordination Chemistry Reviews, 2022, 459, 214380.	9.5	114
40	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
41	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
42	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
43	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
44	CsAlB₃O₆F: a beryllium-free deep-ultraviolet nonlinear optical material with enhanced thermal stability. Chemical Science, 2020, 11, 694-698.	3.7	108
45	Î±â€SnF₂: A UV Birefringent Material with Large Birefringence and Easy Crystal Growth. Angewandte Chemie - International Edition, 2021, 60, 3540-3544.	7.2	108
46	Growth, Structure, and Optical Properties of a Congruent Melting Oxyborate, Bi₂ZnOB₂O₆. Chemistry of Materials, 2009, 21, 2846-2850.	3.2	104
47	Sn₂PO₄I: An Excellent Birefringent Material with Giant Optical Anisotropy in Non Ï€â€Conjugated Phosphate. Angewandte Chemie - International Edition, 2021, 60, 24901-24904.	7.2	101
48	A Novel Nonlinear Optical Crystal Bi₂ZnOB₂O₆. Crystal Growth and Design, 2009, 9, 4091-4095.	1.4	99
49	Expanding the chemistry of borates with functional [BO2]â^’ anions. Nature Communications, 2021, 12, 2597.	5.8	99
50	A Bulk Boron-Based Photocatalyst for Efficient Dechlorination: K₃B₆O₁₀Br. Chemistry of Materials, 2014, 26, 3169-3174.	3.2	97
51	The first quaternary diamond-like semiconductor with 10-membered LiS₄rings exhibiting excellent nonlinear optical performances. Chemical Communications, 2017, 53, 3010-3013.	2.2	96
52	A congruently melting and deep UV nonlinear optical material: Li3Cs2B5O10. Journal of Materials Chemistry, 2011, 21, 2890.	6.7	95
53	Fluorooxoborates: Berylliumâ€Free Deepâ€Ultraviolet Nonlinear Optical Materials without Layered Growth. Angewandte Chemie, 2017, 129, 3974-3977.	1.6	94
54	Second Harmonic Generation Susceptibilities from Symmetry Adapted Wannier Functions. Physical Review Letters, 2020, 125, 187402.	2.9	94

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55	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.	1.9	92
56	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
57	KPb₂(PO₃)₅: a novel nonlinear optical lead polyphosphate with a short deep-UV cutoff edge. Journal of Materials Chemistry C, 2016, 4, 10630-10637.	2.7	88
58	PbB₅O₇F₃: A High-Performing Short-Wavelength Nonlinear Optical Material. Chemistry of Materials, 2020, 32, 2172-2179.	3.2	88
59	Module-Analysis-Assisted Design of Deep Ultraviolet Fluorooxoborates with Extremely Large Gap and High Structural Stability. Chemistry of Materials, 2019, 31, 2807-2813.	3.2	87
60	UV Nonlinear Optical Crystal Ba₂[B₆O₉(OH)₄] Featuring Unique Chiral Layers with a New B₁₈O₄₂ Circle Based on BO₃ and BO₄ Units. Inorganic Chemistry, 2012, 51, 1852-1858.	1.9	86
61	LiRb₂PO₄: a new deep-ultraviolet nonlinear optical phosphate with a large SHG response. Journal of Materials Chemistry C, 2017, 5, 269-274.	2.7	84
62	Fluorineâ€Driven Enhancement of Birefringence in the Fluorooxosulfate: A Deep Evaluation from a Joint Experimental and Computational Study. Advanced Science, 2021, 8, e2003594.	5.6	83
63	Crystal growth and optical properties of a noncentrosymmetric haloid borate, K3B6O10Br. CrystEngComm, 2011, 13, 2899.	1.3	82
64	Deep-Ultraviolet Nonlinear-Optical Material K₃Sr₃Li₂Al₄B₆O₂₀F: Addressing the Structural Instability Problem in KBe₂BO₃F₂. Inorganic Chemistry, 2017, 56, 8755-8758.	1.9	82
65	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
66	Li4Cs3B7O14: Synthesis, Crystal Structure, and Optical Properties. Inorganic Chemistry, 2011, 50, 2415-2419.	1.9	81
67	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, .	7.2	80
68	Fluorooxoborates: Ushering in a New Era of Deep Ultraviolet Nonlinear Optical Materials. Chemistry - A European Journal, 2018, 24, 17638-17650.	1.7	79
69	Structure-property survey and computer-assisted screening of mid-infrared nonlinear optical chalcohalides. Coordination Chemistry Reviews, 2020, 421, 213379.	9.5	78
70	Advantageous Units in Antimony Sulfides: Exploration and Design of Infrared Nonlinear Optical Materials. ACS Applied Materials & Interfaces, 2018, 10, 26413-26421.	4.0	77
71	Series of Crystals with Giant Optical Anisotropy: A Targeted Strategic Research. Angewandte Chemie - International Edition, 2021, 60, 1332-1338.	7.2	77
72	Polar Polymorphism: Î±-, Î²-, and Î³-Pb₂Ba₄Zn₄B₁₄O₃₁â€“Synthesis, Characterization, and Nonlinear Optical Properties. Chemistry of Materials, 2015, 27, 4779-4788.	3.2	75

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73	æ·±ç´«å–æºŸåŒ–ç¡¼é…ç›žåŒæŠ˜å°„çŽ‡å'ŒæŠ˜å°„çŽ‡è‰²æ•£çš„æ€§èƒ½ å¢žçŠ”ç©¶. Science China Materials, 2020, 63, 1480-14	6.5	75
74	Synthesis, Structure, and Properties of the Noncentrosymmetric Hydrated Borate Na₂B₅O₈(OH)Â·2H₂O. Inorganic Chemistry, 2009, 48, 7800-7804.	1.9	74
75	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
76	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.	3.2	74
77	Linear and Nonlinear Optical Properties of K₃B₆O₁₀Br Single Crystal: Experiment and Calculation. Journal of Physical Chemistry C, 2014, 118, 11849-11856.	1.5	73
78	A Series of Rare-Earth Borates K₇MRE₂B₁₅O₃₀ (M =) Tj ETQq0 0 0 rgBT /Overlock 1 Materials, 2018, 30, 2414-2423.	3.2	73
79	BaCdSnS₄and Ba₃CdSn₂S₈: syntheses, structures, and non-linear optical and photoluminescence properties. Dalton Transactions, 2016, 45, 10681-10688.	1.6	72
80	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
81	Na₃Cd₃B(PO₄)₄: A New Noncentrosymmetric Borophosphate with Zero-Dimensional Anion Units. Inorganic Chemistry, 2012, 51, 10870-10875.	1.9	71
82	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
83	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
84	Pb₇O(OH)₃(CO₃)₃(BO₃): First Mixed Borate and Carbonate Nonlinear Optical Material Exhibiting Large Second-Harmonic Generation Response. Inorganic Chemistry, 2015, 54, 4138-4142.	1.9	69
85	Na₂CdGe₂Q₆ (Q = S, Se): two metal-mixed chalcogenides with phase-matching abilities and large second-harmonic generation responses. Dalton Transactions, 2017, 46, 2778-2784.	1.6	69
86	Enhancement of Birefringence in Borophosphate Pushing Phase-Matching into the Short-Wavelength Region. Journal of the American Chemical Society, 2022, 144, 9083-9090.	6.6	69
87	(NH4)3B11PO19F3: a deep-UV nonlinear optical crystal with unique [B5PO10F]â^ž layers. National Science Review, 2022, 9, .	4.6	68
88	First Principle Assisted Prediction of the Birefringence Values of Functional Inorganic Borate Materials. Journal of Physical Chemistry C, 2014, 118, 25651-25657.	1.5	67
89	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.	1.6	67
90	BaB₂S₄: An Efficient and Air-Stable Thioborate as Infrared Nonlinear Optical Material with High Laser Damage Threshold. Chemistry of Materials, 2018, 30, 7428-7432.	3.2	67

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91	A review on phase transition and structure-performance relationship of second-order nonlinear optical polymorphs. Coordination Chemistry Reviews, 2020, 418, 213380.	9.5	67
92	Guanidinium Fluorooxoborates as Efficient Metal-free Short-Wavelength Nonlinear Optical Crystals. Chemistry of Materials, 2022, 34, 440-450.	3.2	67
93	Polar Fluorooxoborate, NaB₄O₆F: A Promising Material for Ionic Conduction and Nonlinear Optics. Angewandte Chemie, 2018, 130, 6687-6691.	1.6	66
94	Ba₂Si₃P₆: 1D Nonlinear Optical Material with Thermal Barrier Chains. Journal of the American Chemical Society, 2019, 141, 11976-11983.	6.6	66
95	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.	7.2	66
96	A New Lithium Rubidium Borate Li₆Rb₅B₁₁O₂₂ with Isolated B₁₁O₂₂ Building Blocks. Crystal Growth and Design, 2011, 11, 3912-3916.	1.4	64
97	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.	3.7	64
98	NH₄Be₂BO₃F₂ and Î³â€²-Be₂BO₃F: Overcoming the Layering Habit in KBe₂BO₃F₂ for the Nextâ€Generation Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie, 2018, 130, 9106-9110.	1.6	63
99	Three new phosphates with isolated P₂O₇units: noncentrosymmetric Cs₂Ba₃(P₂O₇)₂and centrosymmetric Cs₂BaP₂O₇and LiCsBaP₂O₇. Dalton Transactions, 2016, 45, 3936-3942.	1.6	62
100	Experimental and theoretical studies on the linear and nonlinear optical properties of lead phosphate crystals LiPbPO₄. Physical Chemistry Chemical Physics, 2016, 18, 19123-19129.	1.3	61
101	Two Polar Molybdenum(VI) Iodates(V) with Large Second-Harmonic Generation Responses. Chemistry of Materials, 2019, 31, 2992-3000.	3.2	60
102	First-Principles High-Throughput Screening Pipeline for Nonlinear Optical Materials: Application to Borates. Chemistry of Materials, 2020, 32, 6772-6779.	3.2	59
103	A review on the recently developed promising infrared nonlinear optical materials. Dalton Transactions, 2021, 50, 3155-3160.	1.6	59
104	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, .	7.8	58
105	Oxyhalides: prospecting ore for optical functional materials with large laser damage thresholds. Journal of Materials Chemistry C, 2018, 6, 2435-2442.	2.7	56
106	Nontoxic KBBF Family Member Zn₂BO₃(OH): Balance between Beneficial Layered Structure and Layer Tendency. Advanced Science, 2019, 6, 1901679.	5.6	56
107	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
108	Pb3B6O11F2: the first non-centrosymmetric lead borate fluoride with a large second harmonic generation response. Journal of Materials Chemistry C, 2014, 2, 1704.	2.7	55

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109	A Nitrate Nonlinear Optical Crystal Pb₁₆(OH)₁₆(NO₃)₁₆ with a Large Second-Harmonic Generation Response. Inorganic Chemistry, 2014, 53, 3320-3325.	1.9	55
110	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.	1.3	55
111	Experimental and Theoretical Studies on the Linear and Nonlinear Optical Properties of Bi₂ZnOB₂O₆. Journal of Physical Chemistry C, 2013, 117, 14149-14157.	1.5	54
112	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.	1.9	54
113	Growth, thermal and optical properties of a novel nonlinear optical material K₃B₆O₁₀Cl. CrystEngComm, 2012, 14, 799-803.	1.3	53
114	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
115	pâ€“(p,Ï€*) interaction mechanism revealing and accordingly designed new member in deep-ultraviolet NLO borates Li_nM_{nâ^’1}B_{2nâ^’1}O_{4nâ^’2}(M = Cs/Rb, n = 3, 4,) Tj ET Q q 1 1 0 0 1784314 r	2.7	51
116	Li2HgMS4 (M = Si, Ge, Sn): New Quaternary Diamond-Like Semiconductors for Infrared Laser Frequency Conversion. Crystals, 2017, 7, 107.	1.0	51
117	Borate Fluoride and Fluoroborate in Alkali-Metal Borate Prepared by an Open High-Temperature Solution Method. Inorganic Chemistry, 2014, 53, 12686-12688.	1.9	50
118	Effect of Element Substitution on Structural Transformation and Optical Performances in I₂BaM^{IV}Q₄ (I = Li, Na, Cu, and Ag; M^{IV} =) Tj ETQq1 0 0 rgBT/Overlock	1.9	51
119	Achieving Shortâ€Wavelength Phaseâ€Matching Second Harmonic Generation in Boronâ€Rich Borosulfate with Planar [BO₃] Units. Angewandte Chemie - International Edition, 2022, 61, .	7.2	50
120	Ba4(BO3)3(SiO4)Â·Ba3X (X = Cl, Br): new salt-inclusion borosilicate halides as potential deep UV nonlinear optical materials. Journal of Materials Chemistry C, 2014, 2, 4257.	2.7	49
121	Designing excellent mid-infrared nonlinear optical materials with fluorooxo-functional group of d0 transition metal oxyfluorides. Science China Materials, 2019, 62, 1798-1806.	3.5	49
122	Sn₂B₅O₉Br as an Outstanding Bifunctional Material with Strong Secondâ€Harmonic Generation Effect and Large Birefringence. Advanced Optical Materials, 2021, 9, 2001734.	3.6	49
123	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.	1.9	48
124	Noncentrosymmetric versus Centrosymmetric: Influence of the Na⁺ Substitution on Structural Transition and Second-Harmonic Generation Property. Crystal Growth and Design, 2014, 14, 1794-1801.	1.4	48
125	BaCu2MIVQ4(MIV= Si, Ge, and Sn; Q = S, Se): synthesis, crystal structures, optical performances and theoretical calculations. RSC Advances, 2017, 7, 29378-29385.	1.7	48
126	Further Examples of the Pâ€Oâ€P Connection in Borophosphates: Synthesis and Characterization of Li₂Cs₂B₂P₄O₁₅, LiK₂BP₂O₈, and Li₃M₂BP₄O₁₄ (M=K, Rb). Chemistry - A European Journal, 2012, 18, 12046-12051.	1.7	47

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127	Synthesis and Characterization of Mid-Infrared Transparency Compounds: Acentric BaHgS2and Centric Ba8Hg4S5Se7. Inorganic Chemistry, 2015, 54, 2772-2779.	1.9	47
128	Designing Deepâ€UV Birefringent Crystals by Cation Regulation. Chemistry - A European Journal, 2018, 24, 11267-11272.	1.7	47
129	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
130	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.	2.2	46
131	Finding Optimal Mid-Infrared Nonlinear Optical Materials in Germanates by First-Principles High-Throughput Screening and Experimental Verification. ACS Applied Materials & Interfaces, 2020, 12, 45023-45035.	4.0	46
132	BaB8O12F2: a promising deep-UV birefringent material. Inorganic Chemistry Frontiers, 2019, 6, 546-549.	3.0	45
133	Ba2B10O17: a new centrosymmetric alkaline-earth metal borate with a deep-UV cut-off edge. Dalton Transactions, 2014, 43, 8905-8910.	1.6	44
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