Zheshuai Lin

List of Publications by Year
in descending order

545 papers	25,722 citations	4067 89 h-index	12519 134 g-index
608 all docs	608 docs citations	608 times ranked	14421 citing authors

#	Article	IF	Citations
1	Interstitial Pâ€Ðoped CdS with Longâ€Lived Photogenerated Electrons for Photocatalytic Water Splitting without Sacrificial Agents. Advanced Materials, 2018, 30, 1705941.	24.3	471
2	New Insights into the Origin of Visible Light Photocatalytic Activity of Nitrogen-Doped and Oxygen-Deficient Anatase TiO2. Journal of Physical Chemistry B, 2005, 109, 20948-20952.	2.7	428
3	Beryllium-free Li4Sr(BO3)2 for deep-ultraviolet nonlinear optical applications. Nature Communications, 2014, 5, 4019.	13.2	394
4	Metal Thiophosphates with Good Mid-infrared Nonlinear Optical Performances: A First-Principles Prediction and Analysis. Journal of the American Chemical Society, 2015, 137, 13049-13059.	14.6	360
5	BaGa₄Se₇: A New Congruent-Melting IR Nonlinear Optical Material. Inorganic Chemistry, 2010, 49, 9212-9216.	4.2	352
6	Two Novel Bi-Based Borate Photocatalysts: Crystal Structure, Electronic Structure, Photoelectrochemical Properties, and Photocatalytic Activity under Simulated Solar Light Irradiation. Journal of Physical Chemistry C, 2013, 117, 22986-22994.	3.3	347
7	NaSr₃Be₃B₃O₉F₄: A Promising Deepâ€Ultraviolet Nonlinear Optical Material Resulting from the Cooperative Alignment of the [Be₃B₃O₁₂F]^{10â^’} Anionic Group. Angewandte Chemie - International Edition, 2011, 50, 9141-9144.	14.8	344
8	Pressure-Induced Phase Transformation, Reversible Amorphization, and Anomalous Visible Light Response in Organolead Bromide Perovskite. Journal of the American Chemical Society, 2015, 137, 11144-11149.	14.6	317
9	Deep-Ultraviolet Transparent Phosphates RbBa₂(PO₃)₅ and Rb₂Ba₃(P₂O₇)₂ Show Nonlinear Optical Activity from Condensation of [PO₄]^{3â€“} Units. Journal of the American Chemical Society, 2014, 136, 8560-8563.	14.6	311
10	M₂B₁₀O₁₄F₆ (M = Ca, Sr): Two Noncentrosymmetric Alkaline Earth Fluorooxoborates as Promising Next-Generation Deep-Ultraviolet Nonlinear Optical Materials. Journal of the American Chemical Society, 2018, 140, 3884-3887.	14.6	306
11	A new cathode material for super-valent battery based on aluminium ion intercalation and deintercalation. Scientific Reports, 2013, 3, 3383.	3.4	296
12	Analysis and prediction of mid-IR nonlinear optical metal sulfides with diamond-like structures. Coordination Chemistry Reviews, 2017, 333, 57-70.	19.6	291
13	Mid-Infrared Nonlinear Optical Materials Based on Metal Chalcogenides: Structureâ€“Property Relationship. Crystal Growth and Design, 2017, 17, 2254-2289.	3.2	279
14	Sb³⁺ Dopant and Halogen Substitution Triggered Highly Efficient and Tunable Emission in Lead-Free Metal Halide Single Crystals. Chemistry of Materials, 2020, 32, 5327-5334.	7.1	249
15	Inorganic Colloidal Perovskite Quantum Dots for Robust Solar CO₂ Reduction. Chemistry - A European Journal, 2017, 23, 9481-9485.	3.9	244
16	Beryllium-Free Rb₃Al₃B₃O₁₀F with Reinforced Interlayer Bonding as a Deep-Ultraviolet Nonlinear Optical Crystal. Journal of the American Chemical Society, 2015, 137, 2207-2210.	14.6	242
17	Designing a Beryllium-Free Deep-Ultraviolet Nonlinear Optical Material without a Structural Instability Problem. Journal of the American Chemical Society, 2016, 138, 2961-2964.	14.6	229
18	Simultaneously efficient light absorption and charge transport of phosphate and oxygen-vacancy confined in bismuth tungstate atomic layers triggering robust solar CO2 reduction. Nano Energy, 2017, 32, 359-366.	16.5	219

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19	First-Principles Design and Simulations Promote the Development of Nonlinear Optical Crystals. Accounts of Chemical Research, 2020, 53, 209-217.	16.6	216
20	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.	14.8	213
21	First-principles materials applications and design of nonlinear optical crystals. Journal Physics D: Applied Physics, 2014, 47, 253001.	2.9	212
22	Nanostructured Ni₂P as a Robust Catalyst for the Hydrolytic Dehydrogenation of Ammoniaâ€“Borane. Angewandte Chemie - International Edition, 2015, 54, 15725-15729.	14.8	210
23	Tailored Synthesis of a Nonlinear Optical Phosphate with a Short Absorption Edge. Angewandte Chemie - International Edition, 2015, 54, 4217-4221.	14.8	210
24	Non-Centrosymmetric RbNaMgP₂O₇ with Unprecedented Thermo-Induced Enhancement of Second Harmonic Generation. Journal of the American Chemical Society, 2018, 140, 1592-1595.	14.6	208
25	â€œAll-Three-in-Oneâ€• A New Bismuthâ€“Telluriumâ€“Borate Bi₃TeBO₉ Exhibiting Strong Second Harmonic Generation Response. Journal of the American Chemical Society, 2016, 138, 14190-14193.	14.6	199
26	Efficient and Selective CO2 Reduction Integrated with Organic Synthesis by Solar Energy. CheM, 2019, 5, 2605-2616.	12.2	199
27	Two Non-Ï€-Conjugated Deep-UV Nonlinear Optical Sulfates. Journal of the American Chemical Society, 2019, 141, 3833-3837.	14.6	196
28	Heavy Mn²⁺ Doped MgAl₂O₄ Phosphor for Highâ€Efficient Nearâ€Infrared Lightâ€Emitting Diode and the Nightâ€Vision Application. Advanced Optical Materials, 2019, 7, 1901105.	7.9	188
29	Rational Design of the First Lead/Tin Fluorooxoborates MB₂O₃F₂ (M = Pb, Sn), Containing Flexible Two-Dimensional [B₆O₁₂F₆]_{âˆž} Single Layers with Widely Divergent Second Harmonic Generation Effects. Journal of the American Chemical Society, 2018, 140, 6814-6817.	14.6	186
30	BaGa2MQ6 (M = Si, Ge; Q = S, Se): a new series of promising IR nonlinear optical materials. Dalton Transactions, 2012, 41, 5653.	3.4	177
31	Trigonal Planar [HgSe₃]^{4â€“} Unit: A New Kind of Basic Functional Group in IR Nonlinear Optical Materials with Large Susceptibility and Physicochemical Stability. Journal of the American Chemical Society, 2016, 138, 6135-6138.	14.6	176
32	Analysis of Deepâ€UV Nonlinear Optical Borates: Approaching the End. Advanced Optical Materials, 2014, 2, 411-417.	7.9	175
33	Self-Supported Cedarlike Semimetallic Cu₃P Nanoarrays as a 3D High-Performance Janus Electrode for Both Oxygen and Hydrogen Evolution under Basic Conditions. ACS Applied Materials & Interfaces, 2016, 8, 23037-23048.	8.3	175
34	Recent advances and future perspectives on infrared nonlinear optical metal halides. Coordination Chemistry Reviews, 2019, 380, 83-102.	19.6	174
35	Microspheric Na₂Ti₃O₇consisting of tiny nanotubes: an anode material for sodium-ion batteries with ultrafast chargeâ€“discharge rates. Nanoscale, 2013, 5, 594-599.	5.8	168
36	Comparative investigations of the crystal structure and photoluminescence property of eulytite-type Ba₃Eu(PO₄)₃and Sr₃Eu(PO₄)₃. Dalton Transactions, 2015, 44, 7679-7686.	3.4	167

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37	Mechanical Tunability via Hydrogen Bonding in Metalâ€“Organic Frameworks with the Perovskite Architecture. Journal of the American Chemical Society, 2014, 136, 7801-7804.	14.6	163
38	An Unprecedented Antimony(III) Borate with Strong Linear and Nonlinear Optical Responses. Angewandte Chemie - International Edition, 2020, 59, 7793-7796.	14.8	160
39	Large Second-Harmonic Response and Giant Birefringence of CeF₂(SO₄) Induced by Highly Polarizable Polyhedra. Journal of the American Chemical Society, 2021, 143, 4138-4142.	14.6	157
40	Giant Optical Anisotropy in the UVâ€Transparent 2D Nonlinear Optical Material Sc(IO₃)₂(NO₃). Angewandte Chemie - International Edition, 2021, 60, 3464-3468.	14.8	146
41	Pb₂GaF₂(SeO₃)₂Cl: Band Engineering Strategy by Aliovalent Substitution for Enlarging Bandgap while Keeping Strong Second Harmonic Generation Response. Journal of the American Chemical Society, 2019, 141, 748-752.	14.6	143
42	Optically Modulated Ultra-Broad-Band Warm White Emission in Mn²⁺-Doped (C₆H₁₈N₂O₂)PbBr₄ Hybrid Metal Halide Phosphor. Chemistry of Materials, 2019, 31, 5788-5795.	7.1	141
43	AZn₂BO₃X₂ (A = K, Rb, NH₄; X = Cl, Br): New Members of KBBF Family Exhibiting Large SHG Response and the Enhancement of Layer Interaction by Modified Structures. Chemistry of Materials, 2016, 28, 9122-9131.	7.1	139
44	Rational Design of Deep-Ultraviolet Nonlinear Optical Materials in Fluorooxoborates: Toward Optimal Planar Configuration. Chemistry of Materials, 2017, 29, 7098-7102.	7.1	139
45	Deep-Ultraviolet Transparent Cs₂LiPO₄ Exhibits an Unprecedented Second Harmonic Generation. Chemistry of Materials, 2016, 28, 7110-7116.	7.1	136
46	A New Mixed Halide, Cs₂HgI₂Cl₂: Molecular Engineering for a New Nonlinear Optical Material in the Infrared Region. Journal of the American Chemical Society, 2012, 134, 14818-14822.	14.6	135
47	ABi₂(IO₃)₂F₅ (A=K, Rb, and Cs): A Combination of Halide and Oxide Anionic Units To Create a Large Secondâ€Harmonic Generation Response with a Wide Bandgap. Angewandte Chemie - International Edition, 2017, 56, 9492-9496.	14.8	132
48	Nearâ€Zero Thermal Expansion and High Ultraviolet Transparency in a Borate Crystal of Zn₄B₆O₁₃. Advanced Materials, 2016, 28, 7936-7940.	24.3	129
49	Lead-Free Hybrid Metal Halides with a Green-Emissive [MnBr₄] Unit as a Selective Turn-On Fluorescent Sensor for Acetone. Inorganic Chemistry, 2019, 58, 13464-13470.	4.2	126
50	Molecular Construction Using (C₃N₃O₃)^{3â€“} Anions: Analysis and Prospect for Inorganic Metal Cyanurates Nonlinear Optical Materials. Crystal Growth and Design, 2017, 17, 4015-4020.	3.2	121
51	Pushing Nonlinear Optical Oxides into the Mid-Infrared Spectral Region Beyond 10 Î¼m: Design, Synthesis, and Characterization of La₃SnGa₅O₁₄. Journal of the American Chemical Society, 2018, 140, 4684-4690.	14.6	121
52	First principles selection and design of mid-IR nonlinear optical halide crystals. Journal of Materials Chemistry C, 2013, 1, 7363.	5.6	120
53	First-Principles Evaluation of the Alkali and/or Alkaline Earth Beryllium Borates in Deep Ultraviolet Nonlinear Optical Applications. ACS Photonics, 2015, 2, 1183-1191.	6.9	120
54	Mechanism for linear and nonlinear optical effects in monoclinic bismuth borate (BiB3O6) crystal. Journal of Applied Physics, 2001, 90, 5585-5590.	2.3	118

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55	Crystal Growth, Optical Properties Measurement, and Theoretical Calculation of BPO4. Chemistry of Materials, 2004, 16, 2906-2908.	7.1	117
56	UV Solarâ€Blindâ€Region Phaseâ€Matchable Optical Nonlinearity and Anisotropy in a Ï€â€Conjugated Cationâ€Containing Phosphate. Angewandte Chemie - International Edition, 2021, 60, 14806-14810.	14.8	117
57	Atomically Thin Mesoporous In₂O_{3â€“}_x/In₂S₃ Lateral Heterostructures Enabling Robust Broadbandâ€Light Photoâ€Electrochemical Water Splitting. Advanced Energy Materials, 2018, 8, 1701114.	22.2	116
58	Loneâ€Pair Enhanced Birefringence in an Alkalineâ€Earth Metal Tin(II) Phosphate BaSn₂(PO₄)₂. Chemistry - A European Journal, 2019, 25, 5648-5651.	3.9	113
59	Enhancing Photoluminescence Quantum Yield in 0D Metal Halides by Introducing Water Molecules. Advanced Functional Materials, 2020, 30, 2002468.	16.5	113
60	Metallic Bond-Enabled Wetting Behavior at the Liquid Ga/CuGa₂ Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 9203-9210.	8.3	111
61	BaHgGeSe₄ and SrHgGeSe₄: Two New Hg-Based Infrared Nonlinear Optical Materials. Chemistry of Materials, 2019, 31, 3034-3040.	7.1	109
62	Breaking through the â€œ3.0 eV wallâ€•of energy band gap in mid-infrared nonlinear optical rare earth chalcogenides by charge-transfer engineering. Materials Horizons, 2021, 8, 2330-2334.	12.8	109
63	RbIO₃ and RbIO₂F₂: Two Promising Nonlinear Optical Materials in Mid-IR Region and Influence of Partially Replacing Oxygen with Fluorine for Improving Laser Damage Threshold. Chemistry of Materials, 2016, 28, 1413-1418.	7.1	108
64	Flux Crystal Growth and the Electronic Structure of BaFe₁₂O₁₉ Hexaferrite. Journal of Physical Chemistry C, 2016, 120, 5114-5123.	3.3	105
65	LiGaGe₂Se₆: A New IR Nonlinear Optical Material with Low Melting Point. Inorganic Chemistry, 2012, 51, 1035-1040.	4.2	104
66	Mechanism of linear and nonlinear optical effects of KDP and urea crystals. Journal of Chemical Physics, 2003, 118, 2349-2356.	3.1	103
67	Bi₂(IO₄)(IO₃)₃: A New Potential Infrared Nonlinear Optical Material Containing [IO₄]^{3â€“} Anion. Inorganic Chemistry, 2011, 50, 12818-12822.	4.2	103
68	CsZn₂BO₃X₂ (X₂=F₂, Cl₂,) Tj ETQq0 0 0 rgBT /Overlock Properties. Angewandte Chemie - International Edition, 2020, 59, 19006-19010.	14.8	103
69	Inherent laws between tetrahedral arrangement pattern and optical performance in tetrahedron-based mid-infrared nonlinear optical materials. Coordination Chemistry Reviews, 2020, 421, 213444.	19.6	103
70	Nitrate nonlinear optical crystals: A survey on structure-performance relationships. Coordination Chemistry Reviews, 2019, 400, 213045.	19.6	102
71	Inorganic planar Ï€-conjugated groups in nonlinear optical crystals: review and outlook. Inorganic Chemistry Frontiers, 2020, 7, 839-852.	6.0	102
72	LiZn(OH)CO₃: A Deepâ€Ultraviolet Nonlinear Optical Hydroxycarbonate Designed from a Diamondâ€like Structure. Angewandte Chemie - International Edition, 2021, 60, 13574-13578.	14.8	102

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73	Mechanism for linear and nonlinear optical effects inLiB3O5,CsB3O5,andCsLiB6O10crystals. Physical Review B, 2000, 62, 1757-1764.	3.3	101
74	Highly efficient hydrolysis of ammonia borane by anion (^{â˜'}OH, F^{â˜'},) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Communications, 2017, 53, 705-708.	4.2	101
75	Noncentrosymmetric chalcohalide NaBa₄Ge₃S₁₀Cl with large band gap and IR NLO response. Journal of Materials Chemistry C, 2014, 2, 4590-4596.	5.6	100
76	Cooperation of Three Chromophores Generates the Waterâ€Resistant Nitrate Nonlinear Optical Material Bi₃TeO₆OH(NO₃)₂. Angewandte Chemie - International Edition, 2017, 56, 540-544.	14.8	100
77	Sr₆Cd₂Sb₆O₇S₁₀: Strong SHG Response Activated by Highly Polarizable Sb/O/S Groups. Angewandte Chemie - International Edition, 2019, 58, 8078-8081.	14.8	100
78	Mechanism of linear and nonlinear optical effects of chalcopyrite AgGaX2 (X=S, Se, and Te) crystals. Journal of Chemical Physics, 2004, 120, 8772-8778.	3.1	99
79	A New UV Nonlinear Optical Material CsZn₂B₃O₇: ZnO₄ Tetrahedra Double the Efficiency of Second-Harmonic Generation. Inorganic Chemistry, 2014, 53, 2521-2527.	4.2	99
80	Tunable thermal expansion in framework materials through redox intercalation. Nature Communications, 2017, 8, 14441.	13.2	99
81	Pb₂BO₃Br: a novel nonlinear optical lead borate bromine with a KBBF-type structure exhibiting strong nonlinear optical response. Inorganic Chemistry Frontiers, 2018, 5, 916-921.	6.0	97
82	Giant Second-Harmonic Generation Response and Large Band Gap in the Partially Fluorinated Mid-Infrared Oxide RbTeMo₂O₈F. Journal of the American Chemical Society, 2021, 143, 12455-12459.	14.6	97
83	Designing a Deep-UV Nonlinear Optical Fluorooxosilicophosphate. Journal of the American Chemical Society, 2020, 142, 6472-6476.	14.6	96
84	Metallic Co₂C: A Promising Co-catalyst To Boost Photocatalytic Hydrogen Evolution of Colloidal Quantum Dots. ACS Catalysis, 2018, 8, 5890-5895.	11.7	95
85	K₅(W₃O₉F₄)(IO₃): An Efficient Mid-Infrared Nonlinear Optical Compound with High Laser Damage Threshold. Chemistry of Materials, 2019, 31, 10100-10108.	7.1	95
86	Lead-Free Tin(IV)-Based Organicâ€"Inorganic Metal Halide Hybrids with Excellent Stability and Blue-Broadband Emission. Journal of Physical Chemistry Letters, 2020, 11, 1808-1813.	4.9	95
87	Prospects for Fluoride Carbonate Nonlinear Optical Crystals in the UV and Deep-UV Regions. Journal of Physical Chemistry C, 2013, 117, 25684-25692.	3.3	94
88	Two-Dimensional-Layered Perovskite ALaTa₂O₇:Bi³⁺ (A = K and Na) Phosphors with Versatile Structures and Tunable Photoluminescence. ACS Applied Materials & Interfaces, 2018, 10, 24648-24655.	8.3	94
89	Perovskite-based nanocubes with simultaneously improved visible-light absorption and charge separation enabling efficient photocatalytic CO2 reduction. Nano Energy, 2016, 30, 59-68.	16.5	93
90	The role of dipole moment in determining the nonlinear optical behavior of materials: ab initio studies on quaternary molybdenum tellurite crystals. Journal of Materials Chemistry C, 2014, 2, 530-537.	5.6	91

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91	Electronic structure of Î²-RbSm(MoO₄)₂and chemical bonding in molybdates. Dalton Transactions, 2015, 44, 1805-1815.	3.4	91
92	Hg-Based Infrared Nonlinear Optical Material KHg₄Ga₅Se₁₂ Exhibits Good Phase-Matchability and Exceptional Second Harmonic Generation Response. Chemistry of Materials, 2017, 29, 7993-8002.	7.1	87
93	Regulating Second-Harmonic Generation by van der Waals Interactions in Two-dimensional Lead Halide Perovskite Nanosheets. Journal of the American Chemical Society, 2019, 141, 9134-9139.	14.6	87
94	First-Principles Design of a Deep-Ultraviolet Nonlinear-Optical Crystal from KBe₂BO₃F₂ to NH₄Be₂BO₃F₂. Inorganic Chemistry, 2015, 54, 10533-10535.	4.2	86
95	Midinfrared Nonlinear Optical Thiophosphates from LiZnPS₄ to AgZnPS₄: A Combined Experimental and Theoretical Study. Inorganic Chemistry, 2016, 55, 3724-3726.	4.2	86
96	Novel Bi-based iodate photocatalysts with high photocatalytic activity. Inorganic Chemistry Communication, 2014, 40, 215-219.	4.0	84
97	An outstanding second-harmonic generation material BiB₂O₄F: exploiting the electron-withdrawing ability of fluorine. Inorganic Chemistry Frontiers, 2015, 2, 170-176.	6.0	83
98	Single crystalline VO2 nanosheets: A cathode material for sodium-ion batteries with high rate cycling performance. Journal of Power Sources, 2014, 250, 181-187.	8.0	82
99	PbGa₄S₇: a wide-gap nonlinear optical material. Journal of Materials Chemistry C, 2015, 3, 3060-3067.	5.6	82
100	Synthesis, Crystal Structure and Green Luminescence in Zero-Dimensional Tin Halide (C₈H₁₄N₂)₂SnBr₆. Inorganic Chemistry, 2020, 59, 9962-9968.	4.2	82
101	Realizing Tunable White Light Emission in Lead-Free Indium(III) Bromine Hybrid Single Crystals through Antimony(III) Cation Doping. Journal of Physical Chemistry Letters, 2020, 11, 10164-10172.	4.9	81
102	Microscopic characteristics of theAg(111)âˆ•ZnO(0001)interface present in optical coatings. Physical Review B, 2007, 75, .	3.3	80
103	Two novel nonlinear optical carbonates in the deep-ultraviolet region: KBeCO3F and RbAlCO3F2. Scientific Reports, 2013, 3, 1366.	3.4	80
104	Li₂CsB₇O₁₀(OH)₄: A Deep-Ultraviolet Nonlinear-Optical Mixed-Alkaline Borate Constructed by Unusual Heptaborate Anions. Inorganic Chemistry, 2019, 58, 1755-1758.	4.2	78
105	Realizing Deep-Ultraviolet Second Harmonic Generation by First-Principles-Guided Materials Exploration in Hydroxyborates. Journal of the American Chemical Society, 2020, 142, 15157-15163.	14.6	76
106	Deep-ultraviolet nonlinear optical crystals: concept development and materials discovery. Light: Science and Applications, 2022, 11, .	16.2	74
107	Rational Design of the Nonlinear Optical Response in a Tin Iodate Fluoride Sn(IO₃)₂F₂. Chemistry of Materials, 2020, 32, 2615-2620.	7.1	73
108	A comprehensive survey on nonlinear optical phosphates: Role of multicoordinate groups. Coordination Chemistry Reviews, 2021, 431, 213692.	19.6	73

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109	Roomâ€Temperature Ultrabroadband Photodetection with MoS₂ by Electronicâ€Structure Engineering Strategy. Advanced Materials, 2018, 30, e1804858.	24.3	72
110	A₂Bi₂(SO₄)₂Cl₄(A = NH₄, K,) Tj ETQq0 0 0 rgBT /Overloc birefringence in sulfate nonlinear optical materials. Journal of Materials Chemistry C, 2019, 7, 9900-9907.	5.6	70
111	Co-crystal LiClÂ·(H₃C₃N₃O₃): a promising solar-blind nonlinear optical crystal with giant nonlinearity from coplanar Ï€-conjugated groups. Chemical Communications, 2019, 55, 6257-6260.	4.2	70
112	Collaborative enhancement from Pb²⁺ and F^{â^'} in Pb₂(NO₃)₂(H₂O)F₂ generates the largest second harmonic generation effect among nitrates. Chemical Communications, 2017, 53, 9398-9401.	4.2	69
113	An Exceptional Peroxide Birefringent Material Resulting from dâ€“Ï€ Interactions. Angewandte Chemie - International Edition, 2020, 59, 9414-9417.	14.8	69
114	Molecular Construction from AgGaS₂ to CuZnPS₄: Defect-Induced Second Harmonic Generation Enhancement and Cosubstitution-Driven Band Gap Enlargement. Chemistry of Materials, 2020, 32, 3288-3296.	7.1	69
115	Ba₂M(C₃N₃O₃)₂ (M = Mg, Ca): potential UV birefringent materials with strengthened optical anisotropy originating from the (C₃N₃O₃)^{3â^'} group. Journal of Materials Chemistry C, 2018, 6, 12879-12887.	5.6	68
116	A combination of multiple chromophores enhances second-harmonic generation in a nonpolar noncentrosymmetric oxide: CdTeMoO6. Journal of Materials Chemistry C, 2013, 1, 2906.	5.6	67
117	Mechanism for linear and nonlinear optical effects in KBe2BO3F2 (KBBF) crystal. Chemical Physics Letters, 2003, 367, 523-527.	2.7	66
118	NaSr₃Be₃B₃O₉F₄: A Promising Deepâ€Ultraviolet Nonlinear Optical Material Resulting from the Cooperative Alignment of the [Be₃B₃O₁₂F]^{10â^'} Anionic Group. Angewandte Chemie, 2011, 123, 9307-9310.	2.1	66
119	BaBe₂BO₃F₃: A KBBF-Type Deep-Ultraviolet Nonlinear Optical Material with Reinforced [Be₂BO₃F₂]_{âˆž} Layers and Short Phase-Matching Wavelength. Chemistry of Materials, 2016, 28, 8871-8875.	7.1	66
120	NH₄Be₂BO₃F₂ and Î³â€²Be₂BO₃F: Overcoming the Layering Habit in KBe₂BO₃F₂ for the Nextâ€Generation Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie, 2018, 130, 9106-9110.	2.1	64
121	Nonlinear Optical Oxythiophosphate Approaching the Good Balance with Wide Ultraviolet Transparency, Strong Second Harmonic Effect, and Large Birefringence. Angewandte Chemie - International Edition, 2021, 60, 6386-6390.	14.8	61
122	Strong SHG Responses in a Berylliumâ€Free Deepâ€UVâ€Transparent Hydroxyborate via Covalent Bond Modification. Angewandte Chemie - International Edition, 2021, 60, 27151-27157.	14.8	61
123	A₂BiI₅O₁₅(A = K⁺or Rb⁺): two new promising nonlinear optical materials containing [I₃O₉]^{3â^'}bridging anionic groups. Journal of Materials Chemistry C, 2014, 2, 4057-4062.	5.6	60
124	Growth and structure redetermination of a nonlinear BaAlBO3F2 crystal. Solid State Sciences, 2011, 13, 875-878.	3.2	59
125	Tailored Synthesis of a Nonlinear Optical Phosphate with a Short Absorption Edge. Angewandte Chemie, 2015, 127, 4291-4295.	2.1	59
126	Colossal Volume Contraction in Strong Polar Perovskites of Pb(Ti,V)O₃. Journal of the American Chemical Society, 2017, 139, 14865-14868.	14.6	58

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127	Broadening Frontiers of Infrared Nonlinear Optical Materials with Ï€-Conjugated Trigonal-Planar Groups. Chemistry of Materials, 2019, 31, 1110-1117.	7.1	58
128	Zn₃P₂S₈: A Promising Infrared Nonlinear-Optical Material with Excellent Overall Properties. Inorganic Chemistry, 2018, 57, 10503-10506.	4.2	57
129	BaGa₂SnSe₆: a new phase-matchable IR nonlinear optical material with strong second harmonic generation response. Journal of Materials Chemistry C, 2015, 3, 10998-11004.	5.6	54
130	Reversible switching between pressure-induced amorphization and thermal-driven recrystallization in VO2(B) nanosheets. Nature Communications, 2016, 7, 12214.	13.2	54
131	Design and synthesis of a nonlinear optical material BaAl₄S₇with a wide band gap inspired from SrB₄O₇. Journal of Materials Chemistry C, 2018, 6, 2684-2689.	5.6	54
132	Isotropic Negative Area Compressibility over Large Pressure Range in Potassium Beryllium Fluoroborate and its Potential Applications in Deep Ultraviolet Region. Advanced Materials, 2015, 27, 4851-4857.	24.3	53
133	Enhanced photocatalytic H₂-evolution by immobilizing CdS nanocrystals on ultrathin Co_{0.85}Se/RGOâ€“PEI nanosheets. Journal of Materials Chemistry A, 2015, 3, 18711-18717.	10.5	53
134	Noncentrosymmetric Cubic Cyanurate K₆Cd₃(C₃N₃O₃)₄ Containing Isolated Planar Ï€-Conjugated (C₃N₃O₃)^{3â€“} Groups. Inorganic Chemistry, 2018, 57, 32-36.	4.2	53
135	AHgSnQ₄ (A = Sr, Ba; Q = S, Se): A Series of Hg-Based Infrared Nonlinear-Optical Materials with Strong Second-Harmonic-Generation Response and Good Phase Matchability. Inorganic Chemistry, 2019, 58, 10390-10398.	4.2	53
136	Cs₃Na(H₂C₃N₃O₃)₄Â·3H₂O: A Mixed Alkaliâ€Metal Hydroisocyanurate Nonlinear Optical Material Containing Ï€â€Conjugated Sixâ€Memberedâ€Ring Units. European Journal of Inorganic Chemistry, 2019, 2019, 2791-2795.	2.2	53
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