Zhe-Shuai Lin

List of Publications by Year
in descending order

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506	25,289	4388	12944
papers	citations	86	131
		h-index	g-index

569	569	569	11738
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interstitial Pâ€Doped CdS with Longâ€Lived Photogenerated Electrons for Photocatalytic Water Splitting without Sacrificial Agents. Advanced Materials, 2018, 30, 1705941.	21.0	438
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.	2.6	422
3	Beryllium-free Li4Sr(BO3)2 for deep-ultraviolet nonlinear optical applications. Nature Communications, 2014, 5, 4019.	12.8	384
4	The development of new borate-based UV nonlinear optical crystals. Applied Physics B: Lasers and Optics, 2005, 80, 1-25.	2.2	365
5	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.	13.7	345
6	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.	13.8	342
7	BaGa₄Se₇: A New Congruent-Melting IR Nonlinear Optical Material. Inorganic Chemistry, 2010, 49, 9212-9216.	4.0	339
8	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.	3.1	334
9	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.	13.7	303
10	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.	13.7	297
11	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.	13.7	288
12	A new cathode material for super-valent battery based on aluminium ion intercalation and deintercalation. Scientific Reports, 2013, 3, 3383.	3.3	286
13	Analysis and prediction of mid-IR nonlinear optical metal sulfides with diamond-like structures. Coordination Chemistry Reviews, 2017, 333, 57-70.	18.8	278
14	Mid-Infrared Nonlinear Optical Materials Based on Metal Chalcogenides: Structureâ€“Property Relationship. Crystal Growth and Design, 2017, 17, 2254-2289.	3.0	266
15	Beryllium-Free Rb₃Al₃B₃O₁₀F with Reinforced Interlayer Bonding as a Deep-Ultraviolet Nonlinear Optical Crystal. Journal of the American Chemical Society, 2015, 137, 2207-2210.	13.7	237
16	Inorganic Colloidal Perovskite Quantum Dots for Robust Solar CO₂ Reduction. Chemistry - A European Journal, 2017, 23, 9481-9485.	3.3	225
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.	13.7	220
18	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.	6.7	215

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19	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.	16.0	208
20	Tailored Synthesis of a Nonlinear Optical Phosphate with a Short Absorption Edge. Angewandte Chemie - International Edition, 2015, 54, 4217-4221.	13.8	205
21	Nanostructured Ni₂P as a Robust Catalyst for the Hydrolytic Dehydrogenation of Ammoniaâ€“Borane. Angewandte Chemie - International Edition, 2015, 54, 15725-15729.	13.8	204
22	First-principles materials applications and design of nonlinear optical crystals. Journal Physics D: Applied Physics, 2014, 47, 253001.	2.8	201
23	Non-Centrosymmetric RbNaMgP₂O₇ with Unprecedented Thermo-Induced Enhancement of Second Harmonic Generation. Journal of the American Chemical Society, 2018, 140, 1592-1595.	13.7	200
24	NH₄Be₂BO₃F₂ and Î³â€²-Be₂BO₃F: Overcoming the Layering Habit in KBe₂BO₃F₂ for the Nextâ€Generation Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie - International Edition, 2018, 57, 8968-8972.	13.8	200
25	First-Principles Design and Simulations Promote the Development of Nonlinear Optical Crystals. Accounts of Chemical Research, 2020, 53, 209-217.	15.6	194
26	Molecular Engineering Design to Resolve the Layering Habit and Polymorphism Problems in Deep UV NLO Crystals: New Structures in MMâ€²Be₂B₂O₆F (Mâ•Na, Mâ€²â•Ca; Mâ•K,	13.7	194
27	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.	13.7	185
28	Two Non-Ï€-Conjugated Deep-UV Nonlinear Optical Sulfates. Journal of the American Chemical Society, 2019, 141, 3833-3837.	13.7	183
29	Efficient and Selective CO2 Reduction Integrated with Organic Synthesis by Solar Energy. CheM, 2019, 5, 2605-2616.	11.7	179
30	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.	13.7	177
31	BaGa2MQ6 (M = Si, Ge; Q = S, Se): a new series of promising IR nonlinear optical materials. Dalton Transactions, 2012, 41, 5653.	3.3	174
32	Analysis of Deepâ€UV Nonlinear Optical Borates: Approaching the End. Advanced Optical Materials, 2014, 2, 411-417.	7.3	171
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.	8.0	170
34	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.	13.7	168
35	Microspheric Na₂Ti₃O₇consisting of tiny nanotubes: an anode material for sodium-ion batteries with ultrafast chargeâ€“discharge rates. Nanoscale, 2013, 5, 594-599.	5.6	167
36	Heavy Mn²⁺ Doped MgAl₂O₄ Phosphor for Highâ€Efficient Nearâ€Infrared Lightâ€Emitting Diode and the Nightâ€Vision Application. Advanced Optical Materials, 2019, 7, 1901105.	7.3	167

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37	Recent advances and future perspectives on infrared nonlinear optical metal halides. Coordination Chemistry Reviews, 2019, 380, 83-102.	18.8	166
38	Comparative investigations of the crystal structure and photoluminescence property of eulytite-type Ba₃Eu(PO₄)₃and Sr₃Eu(PO₄)₃. Dalton Transactions, 2015, 44, 7679-7686.	3.3	161
39	Mechanical Tunability via Hydrogen Bonding in Metalâ€“Organic Frameworks with the Perovskite Architecture. Journal of the American Chemical Society, 2014, 136, 7801-7804.	13.7	160
40	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.	13.7	147
41	An Unprecedented Antimony(III) Borate with Strong Linear and Nonlinear Optical Responses. Angewandte Chemie - International Edition, 2020, 59, 7793-7796.	13.8	143
42	Rational Design of Deep-Ultraviolet Nonlinear Optical Materials in Fluorooxoborates: Toward Optimal Planar Configuration. Chemistry of Materials, 2017, 29, 7098-7102.	6.7	136
43	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.	13.7	135
44	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.	6.7	134
45	Optically Modulated Ultra-Broad-Band Warm White Emission in Mn²⁺-Doped (C₆H₁₈N₂O₂)PbBr₄ Hybrid Metal Halide Phosphor. Chemistry of Materials, 2019, 31, 5788-5795.	6.7	131
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.	13.7	130
47	Deep-Ultraviolet Transparent Cs₂LiPO₄ Exhibits an Unprecedented Second Harmonic Generation. Chemistry of Materials, 2016, 28, 7110-7116.	6.7	130
48	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.	13.8	129
49	Nearâ€Zero Thermal Expansion and High Ultraviolet Transparency in a Borate Crystal of Zn₄B₆O₁₃. Advanced Materials, 2016, 28, 7936-7940.	21.0	126
50	Giant Optical Anisotropy in the UVâ€Transparent 2D Nonlinear Optical Material Sc(IO₃)₂(NO₃). Angewandte Chemie - International Edition, 2021, 60, 3464-3468.	13.8	124
51	First principles selection and design of mid-IR nonlinear optical halide crystals. Journal of Materials Chemistry C, 2013, 1, 7363.	5.5	117
52	First-Principles Evaluation of the Alkali and/or Alkaline Earth Beryllium Borates in Deep Ultraviolet Nonlinear Optical Applications. ACS Photonics, 2015, 2, 1183-1191.	6.6	117
53	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.	13.7	117
54	Mechanism for linear and nonlinear optical effects in monoclinic bismuth borate (BiB3O6) crystal. Journal of Applied Physics, 2001, 90, 5585-5590.	2.5	116

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55	Crystal Growth, Optical Properties Measurement, and Theoretical Calculation of BPO4. Chemistry of Materials, 2004, 16, 2906-2908.	6.7	114
56	Molecular Construction Using (C₃N₃O₃)^{3â€“} Anions: Analysis and Prospect for Inorganic Metal Cyanurates Nonlinear Optical Materials. Crystal Growth and Design, 2017, 17, 4015-4020.	3.0	114
57	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.	4.0	112
58	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.	6.7	107
59	Atomically Thin Mesoporous In₂O_{3â€“}_x/In₂S₃ Lateral Heterostructures Enabling Robust Broadbandâ€Light Photoâ€Electrochemical Water Splitting. Advanced Energy Materials, 2018, 8, 1701114.	19.5	106
60	BaHgGeSe₄ and SrHgGeSe₄: Two New Hg-Based Infrared Nonlinear Optical Materials. Chemistry of Materials, 2019, 31, 3034-3040.	6.7	104
61	LiGaGe₂Se₆: A New IR Nonlinear Optical Material with Low Melting Point. Inorganic Chemistry, 2012, 51, 1035-1040.	4.0	103
62	Bi₂(IO₄)(IO₃)₃: A New Potential Infrared Nonlinear Optical Material Containing [IO₄]^{3â€“} Anion. Inorganic Chemistry, 2011, 50, 12818-12822.	4.0	102
63	Mechanism for linear and nonlinear optical effects inLiB3O5,CsB3O5,andCsLiB6O10crystals. Physical Review B, 2000, 62, 1757-1764.	3.2	101
64	Metallic Bond-Enabled Wetting Behavior at the Liquid Ga/CuGa₂ Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 9203-9210.	8.0	101
65	Mechanism of linear and nonlinear optical effects of KDP and urea crystals. Journal of Chemical Physics, 2003, 118, 2349-2356.	3.0	99
66	Sr₆Cd₂Sb₆O₇S₁₀: Strong SHG Response Activated by Highly Polarizable Sb/O/S Groups. Angewandte Chemie - International Edition, 2019, 58, 8078-8081.	13.8	99
67	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.	13.8	99
68	Mechanism of linear and nonlinear optical effects of chalcopyrite AgGaX2 (X=S, Se, and Te) crystals. Journal of Chemical Physics, 2004, 120, 8772-8778.	3.0	98
69	A New UV Nonlinear Optical Material CsZn₂B₃O₇: ZnO₄ Tetrahedra Double the Efficiency of Second-Harmonic Generation. Inorganic Chemistry, 2014, 53, 2521-2527.	4.0	98
70	Highly efficient hydrolysis of ammonia borane by anion (^{â^'}OH, F^{â^'},) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Communications, 2017, 53, 705-708.	4.1	97
71	Noncentrosymmetric chalcohalide NaBa₄Ge₃S₁₀Cl with large band gap and IR NLO response. Journal of Materials Chemistry C, 2014, 2, 4590-4596.	5.5	96
72	Flux Crystal Growth and the Electronic Structure of BaFe₁₂O₁₉ Hexaferrite. Journal of Physical Chemistry C, 2016, 120, 5114-5123.	3.1	96

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73	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.	12.2	96
74	Exploration on anion ordering, optical properties and electronic structure in K3WO3F3 elpasolite. Journal of Solid State Chemistry, 2012, 187, 159-164.	2.9	95
75	Tunable thermal expansion in framework materials through redox intercalation. Nature Communications, 2017, 8, 14441.	12.8	95
76	Nitrate nonlinear optical crystals: A survey on structure-performance relationships. Coordination Chemistry Reviews, 2019, 400, 213045.	18.8	95
77	Loneâ€Pair Enhanced Birefringence in an Alkalineâ€Earth Metal Tin(II) Phosphate BaSn₂(PO₄)₂. Chemistry - A European Journal, 2019, 25, 5648-5651.	3.3	95
78	Ab initio studies on the mechanism for linear and nonlinear optical effects in YAl3(BO3)4. Journal of Applied Physics, 2011, 109, .	2.5	93
79	Inorganic planar Ï€-conjugated groups in nonlinear optical crystals: review and outlook. Inorganic Chemistry Frontiers, 2020, 7, 839-852.	6.0	93
80	Prospects for Fluoride Carbonate Nonlinear Optical Crystals in the UV and Deep-UV Regions. Journal of Physical Chemistry C, 2013, 117, 25684-25692.	3.1	92
81	Perovskite-based nanocubes with simultaneously improved visible-light absorption and charge separation enabling efficient photocatalytic CO2 reduction. Nano Energy, 2016, 30, 59-68.	16.0	92
82	Metallic Co₂C: A Promising Co-catalyst To Boost Photocatalytic Hydrogen Evolution of Colloidal Quantum Dots. ACS Catalysis, 2018, 8, 5890-5895.	11.2	92
83	K₅(W₃O₉F₄)(IO₃): An Efficient Mid-Infrared Nonlinear Optical Compound with High Laser Damage Threshold. Chemistry of Materials, 2019, 31, 10100-10108.	6.7	92
84	Inherent laws between tetrahedral arrangement pattern and optical performance in tetrahedron-based mid-infrared nonlinear optical materials. Coordination Chemistry Reviews, 2020, 421, 213444.	18.8	92
85	Cooperation of Three Chromophores Generates the Waterâ€Resistant Nitrate Nonlinear Optical Material Bi₃TeO₆OH(NO₃)₂. Angewandte Chemie - International Edition, 2017, 56, 540-544.	13.8	91
86	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.	8.0	91
87	CsZn₂BO₃X₂ (X₂=F₂, Cl₂,) Tj ETQq1 1 0.784314 rgBT /(Properties. Angewandte Chemie - International Edition, 2020, 59, 19006-19010.	13.8	91
88	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.	13.7	91
89	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	90
90	Designing a Deep-UV Nonlinear Optical Fluorooxosilicophosphate. Journal of the American Chemical Society, 2020, 142, 6472-6476.	13.7	89

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91	Enhancing Photoluminescence Quantum Yield in 0D Metal Halides by Introducing Water Molecules. Advanced Functional Materials, 2020, 30, 2002468.	14.9	89
92	LiZn(OH)CO₃: A Deepâ€Ultraviolet Nonlinear Optical Hydroxycarbonate Designed from a Diamondâ€like Structure. Angewandte Chemie - International Edition, 2021, 60, 13574-13578.	13.8	88
93	First-Principles Design of a Deep-Ultraviolet Nonlinear-Optical Crystal from KBe₂BO₃F₂ to NH₄Be₂BO₃F₂. Inorganic Chemistry, 2015, 54, 10533-10535.	4.0	85
94	Electronic structure of Î²-RbSm(MoO₄)₂and chemical bonding in molybdates. Dalton Transactions, 2015, 44, 1805-1815.	3.3	85
95	Hg-Based Infrared Nonlinear Optical Material KHg₄Ga₅Se₁₂ Exhibits Good Phase-Matchability and Exceptional Second Harmonic Generation Response. Chemistry of Materials, 2017, 29, 7993-8002.	6.7	85
96	Novel Bi-based iodate photocatalysts with high photocatalytic activity. Inorganic Chemistry Communication, 2014, 40, 215-219.	3.9	82
97	An outstanding second-harmonic generation material BiB₂O₄F: exploiting the electron-withdrawing ability of fluorine. Inorganic Chemistry Frontiers, 2015, 2, 170-176.	6.0	82
98	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.	4.6	82
99	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.	5.5	81
100	Microscopic characteristics of theAg(111)âˆ•ZnO(0001)interface present in optical coatings. Physical Review B, 2007, 75, .	3.2	80
101	PbGa₄S₇: a wide-gap nonlinear optical material. Journal of Materials Chemistry C, 2015, 3, 3060-3067.	5.5	80
102	Two novel nonlinear optical carbonates in the deep-ultraviolet region: KBeCO3F and RbAlCO3F2. Scientific Reports, 2013, 3, 1366.	3.3	79
103	Single crystalline VO2 nanosheets: A cathode material for sodium-ion batteries with high rate cycling performance. Journal of Power Sources, 2014, 250, 181-187.	7.8	78
104	Midinfrared Nonlinear Optical Thiophosphates from LiZnPS₄ to AgZnPS₄: A Combined Experimental and Theoretical Study. Inorganic Chemistry, 2016, 55, 3724-3726.	4.0	78
105	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.	13.7	75
106	Li₂CsB₇O₁₀(OH)₄: A Deep-Ultraviolet Nonlinear-Optical Mixed-Alkaline Borate Constructed by Unusual Heptaborate Anions. Inorganic Chemistry, 2019, 58, 1755-1758.	4.0	74
107	Strategy for the optical property studies in ultraviolet nonlinear optical crystals from density functional theory. Computational Materials Science, 2012, 60, 99-104.	3.0	71
108	Rational Design of the Nonlinear Optical Response in a Tin Iodate Fluoride Sn(IO₃)₂F₂. Chemistry of Materials, 2020, 32, 2615-2620.	6.7	71

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109	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.	4.6	70
110	Synthesis, Crystal Structure and Green Luminescence in Zero-Dimensional Tin Halide (C₈H₁₄N₂)₂SnBr₆. Inorganic Chemistry, 2020, 59, 9962-9968.	4.0	69
111	A combination of multiple chromophores enhances second-harmonic generation in a nonpolar noncentrosymmetric oxide: CdTeMoO6. Journal of Materials Chemistry C, 2013, 1, 2906.	5.5	67
112	Theoretical calculations and predictions of the nonlinear optical coefficients of borate crystals. Journal of Physics Condensed Matter, 2001, 13, R369-R384.	1.8	66
113	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.	4.1	66
114	Roomâ€Temperature Ultrabroadband Photodetection with MoS₂ by Electronicâ€Structure Engineering Strategy. Advanced Materials, 2018, 30, e1804858.	21.0	66
115	Realizing Deep-Ultraviolet Second Harmonic Generation by First-Principles-Guided Materials Exploration in Hydroxyborates. Journal of the American Chemical Society, 2020, 142, 15157-15163.	13.7	66
116	Mechanism for linear and nonlinear optical effects in KBe2BO3F2 (KBBF) crystal. Chemical Physics Letters, 2003, 367, 523-527.	2.6	65
117	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.	5.5	65
118	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.	4.1	65
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.	6.7	63
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.	2.0	63
121	A₂Bi₂(SO₄)₂Cl₄ (A = NH₄, K,) Tj ETQq1 1 0.784314 rgBT birefringence in sulfate nonlinear optical materials. Journal of Materials Chemistry C, 2019, 7, 9900-9907.	5.5	63
122	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.	6.7	63
123	A new fourier transform approach for protein coding measure based on the format of the Z curve. Bioinformatics, 1998, 14, 685-690.	4.1	62
124	A comprehensive survey on nonlinear optical phosphates: Role of multicoordinate groups. Coordination Chemistry Reviews, 2021, 431, 213692.	18.8	62
125	Mechanism of linear and nonlinear optical effects of chalcopyrites LiGaX2 (X=S, Se, and Te) crystals. Journal of Applied Physics, 2008, 103, 083111.	2.5	60
126	An Exceptional Peroxide Birefringent Material Resulting from dâ€“Ï€ Interactions. Angewandte Chemie - International Edition, 2020, 59, 9414-9417.	13.8	60

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127	A₂Bil₅O₁₅(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.	5.5	59
128	Growth and structure redetermination of a nonlinear BaAlBO3F2 crystal. Solid State Sciences, 2011, 13, 875-878.	3.2	57
129	Broadening Frontiers of Infrared Nonlinear Optical Materials with Ï€-Conjugated Trigonal-Planar Groups. Chemistry of Materials, 2019, 31, 1110-1117.	6.7	56
130	Colossal Volume Contraction in Strong Polar Perovskites of Pb(Ti,V)O₃. Journal of the American Chemical Society, 2017, 139, 14865-14868.	13.7	55
131	Zn₃P₂S₈: A Promising Infrared Nonlinear-Optical Material with Excellent Overall Properties. Inorganic Chemistry, 2018, 57, 10503-10506.	4.0	55
132	Deep-ultraviolet nonlinear optical crystals: concept development and materials discovery. Light: Science and Applications, 2022, 11, .	16.6	55
133	BaGa₂SnSe₆: a new phase-matchable IR nonlinear optical material with strong second harmonic generation response. Journal of Materials Chemistry C, 2015, 3, 10998-11004.	5.5	54
134	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.	21.0	52
135	BaAl4Se7: a new infrared nonlinear optical material with a large band gap. Dalton Transactions, 2011, 40, 3610.	3.3	51
136	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.	10.3	51
137	LiGaGe₂S₆: A Chalcogenide with Good Infrared Nonlinear Optical Performance and Low Melting Point. Inorganic Chemistry, 2017, 56, 13267-13273.	4.0	51
138	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.	5.5	51
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