

Fei Liang

List of Publications by Year in descending order

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157
papers

6,926
citations

70961

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163
docs citations

163
times ranked

4975
citing authors

#	ARTICLE	IF	CITATIONS
1	Interstitial P-doped CdS with Long-Lived Photogenerated Electrons for Photocatalytic Water Splitting without Sacrificial Agents. <i>Advanced Materials</i> , 2018, 30, 1705941.	11.1	438
2	M ₂ B ₁₀ O ₁₄ F ₆ (M = Ca, Sr): Two Noncentrosymmetric Alkaline Earth Fluorooxoborates as Promising Next-Generation Deep-Ultraviolet Nonlinear Optical Materials. <i>Journal of the American Chemical Society</i> , 2018, 140, 3884-3887.	6.6	288
3	Analysis and prediction of mid-IR nonlinear optical metal sulfides with diamond-like structures. <i>Coordination Chemistry Reviews</i> , 2017, 333, 57-70.	9.5	278
4	Mid-Infrared Nonlinear Optical Materials Based on Metal Chalcogenides: Structure-Property Relationship. <i>Crystal Growth and Design</i> , 2017, 17, 2254-2289.	1.4	266
5	Inorganic Colloidal Perovskite Quantum Dots for Robust Solar CO ₂ Reduction. <i>Chemistry - A European Journal</i> , 2017, 23, 9481-9485.	1.7	225
6	Simultaneously efficient light absorption and charge transport of phosphate and oxygen-vacancy confined in bismuth tungstate atomic layers triggering robust solar CO ₂ reduction. <i>Nano Energy</i> , 2017, 32, 359-366.	8.2	208
7	First-Principles Design and Simulations Promote the Development of Nonlinear Optical Crystals. <i>Accounts of Chemical Research</i> , 2020, 53, 209-217.	7.6	194
8	Two Non-Conjugated Deep-UV Nonlinear Optical Sulfates. <i>Journal of the American Chemical Society</i> , 2019, 141, 3833-3837.	6.6	183
9	Efficient and Selective CO ₂ Reduction Integrated with Organic Synthesis by Solar Energy. <i>CheM</i> , 2019, 5, 2605-2616.	5.8	179
10	Rational Design of the First Lead/Tin Fluorooxoborates MB ₂ O ₃ F ₂ (M = Pb, Sn), Containing Flexible Two-Dimensional [B ₆ O ₁₂ F ₆] ^{z-} Single Layers with Widely Divergent Second Harmonic Generation Effects. <i>Journal of the American Chemical Society</i> , 2018, 140, 6814-6817.	6.6	177
11	Self-Supported Cedarlike Semimetallic Cu ₃ P Nanoarrays as a 3D High-Performance Janus Electrode for Both Oxygen and Hydrogen Evolution under Basic Conditions. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23037-23048.	4.0	170
12	Recent advances and future perspectives on infrared nonlinear optical metal halides. <i>Coordination Chemistry Reviews</i> , 2019, 380, 83-102.	9.5	166
13	Rational Design of Deep-Ultraviolet Nonlinear Optical Materials in Fluorooxoborates: Toward Optimal Planar Configuration. <i>Chemistry of Materials</i> , 2017, 29, 7098-7102.	3.2	136
14	Pb ₂ GaF ₂ (SeO ₃) ₂ Cl: Band Engineering Strategy by Aliovalent Substitution for Enlarging Bandgap while Keeping Strong Second Harmonic Generation Response. <i>Journal of the American Chemical Society</i> , 2019, 141, 748-752.	6.6	135
15	Pushing Nonlinear Optical Oxides into the Mid-Infrared Spectral Region Beyond 10 μm: Design, Synthesis, and Characterization of La ₃ SnGa ₅ O ₁₄ . <i>Journal of the American Chemical Society</i> , 2018, 140, 4684-4690.	6.6	117
16	Molecular Construction Using (C ₃ N ₃ O ₃) ³⁻ Anions: Analysis and Prospect for Inorganic Metal Cyanurates Nonlinear Optical Materials. <i>Crystal Growth and Design</i> , 2017, 17, 4015-4020.	1.4	114
17	Atomically Thin Mesoporous In ₂ O ₃ Nanosheets with In ₂ S ₃ Lateral Heterostructures Enabling Robust Broadband Light Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1701114.	10.2	106
18	BaHgGeSe ₄ and SrHgGeSe ₄ : Two New Hg-Based Infrared Nonlinear Optical Materials. <i>Chemistry of Materials</i> , 2019, 31, 3034-3040.	3.2	104

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19	Metallic Bond-Enabled Wetting Behavior at the Liquid Ga/CuGa ₂ Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 9203-9210.	4.0	101
20	Sr ₆ Cd ₂ Sb ₆ O ₇ S ₁₀ : Strong SHG Response Activated by Highly Polarizable Sb/O/S Groups. Angewandte Chemie - International Edition, 2019, 58, 8078-8081.	7.2	99
21	Highly efficient hydrolysis of ammonia borane by anion (⁺ OH, ⁺ F), Tj ETQq1 1 0.784314 rgBT /Overlock 1 Communications, 2017, 53, 705-708.	2.2	97
22	Perovskite-based nanocubes with simultaneously improved visible-light absorption and charge separation enabling efficient photocatalytic CO ₂ reduction. Nano Energy, 2016, 30, 59-68.	8.2	92
23	Metallic Co ₂ C: A Promising Co-catalyst To Boost Photocatalytic Hydrogen Evolution of Colloidal Quantum Dots. ACS Catalysis, 2018, 8, 5890-5895.	5.5	92
24	Inherent laws between tetrahedral arrangement pattern and optical performance in tetrahedron-based mid-infrared nonlinear optical materials. Coordination Chemistry Reviews, 2020, 421, 213444.	9.5	92
25	Pb ₂ BO ₃ Br: a novel nonlinear optical lead borate bromine with a KBBF-type structure exhibiting strong nonlinear optical response. Inorganic Chemistry Frontiers, 2018, 5, 916-921.	3.0	90
26	N-doped carbon coated NiCo ₂ S ₄ hollow nanotube as bifunctional electrocatalyst for overall water splitting. Carbon, 2019, 145, 521-528.	5.4	83
27	Lead-Free Tin(IV)-Based Organic-Inorganic Metal Halide Hybrids with Excellent Stability and Blue-Broadband Emission. Journal of Physical Chemistry Letters, 2020, 11, 1808-1813.	2.1	82
28	Rational Design of the Nonlinear Optical Response in a Tin Iodate Fluoride Sn(IO ₃) ₂ F ₂ . Chemistry of Materials, 2020, 32, 2615-2620.	3.2	71
29	Room-Temperature Ultrabroadband Photodetection with MoS ₂ by Electronic Structure Engineering Strategy. Advanced Materials, 2018, 30, e1804858.	11.1	66
30	Ba ₂ M(C ₃ N ₃ O ₃) ₂ (M = Mg, Ca): potential UV birefringent materials with strengthened optical anisotropy originating from the (C ₃ N ₃ O ₃) ³⁺ group. Journal of Materials Chemistry C, 2018, 6, 12879-12887.	2.7	65
31	Co-crystal LiCl·(H ₃ C ₃ N ₃ O ₃): a promising solar-blind nonlinear optical crystal with giant nonlinearity from coplanar π -conjugated groups. Chemical Communications, 2019, 55, 6257-6260.	2.2	65
32	Defect Engineering of MoS ₂ for Room-Temperature Terahertz Photodetection. ACS Applied Materials & Interfaces, 2020, 12, 7351-7357.	4.0	52
33	LiGaGe ₂ S ₆ : A Chalcogenide with Good Infrared Nonlinear Optical Performance and Low Melting Point. Inorganic Chemistry, 2017, 56, 13267-13273.	1.9	51
34	Design and synthesis of a nonlinear optical material BaAl ₄ S ₇ with a wide band gap inspired from SrB ₄ O ₇ . Journal of Materials Chemistry C, 2018, 6, 2684-2689.	2.7	51
35	AHgSnQ ₄ (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.	1.9	49
36	Cs ₃ Na(H ₂ C ₃ N ₃ O ₃) ₄ ·3H ₂ O: A Mixed Alkali-Metal Hydroisocyanurate Nonlinear Optical Material Containing π -Conjugated Six-Membered Ring Units. European Journal of Inorganic Chemistry, 2019, 2019, 2791-2795.	1.0	49

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37	Ba ₃ (C ₃ N ₃ O ₃) ₂ : A New Phase of Barium Cyanurate Containing Parallel π -Conjugated Groups as a Birefringent Material Replacement for Calcite. <i>Crystal Growth and Design</i> , 2019, 19, 568-572.	1.4	49
38	Noncentrosymmetric Cubic Cyanurate K ₆ Cd ₃ (C ₃ N ₃ O ₃) ₄ Containing Isolated Planar π -Conjugated (C ₃ N ₃ O ₃) ³⁻ Groups. <i>Inorganic Chemistry</i> , 2018, 57, 32-36.	1.9	48
39	A Deep-Ultraviolet Nonlinear Optical Crystal: Strontium Beryllium Borate Fluoride with Planar Be(O/F) ₃ Groups. <i>Chemistry of Materials</i> , 2016, 28, 4563-4571.	3.2	47
40	Highly Efficient Photocatalytic System Constructed from CoP/Carbon Nanotubes or Graphene for Visible-Light-Driven CO ₂ Reduction. <i>Chemistry - A European Journal</i> , 2018, 24, 4273-4278.	1.7	47
41	Dimensionality reduction made high-performance mid-infrared nonlinear halide crystal. <i>Materials Today Physics</i> , 2021, 21, 100569.	2.9	44
42	Nonbonding Electrons Driven Strong SHG Effect in Hg ₂ GeSe ₄ : Experimental and Theoretical Investigations. <i>Inorganic Chemistry</i> , 2018, 57, 6795-6798.	1.9	43
43	Pushing periodic-disorder-induced phase matching into the deep-ultraviolet spectral region: theory and demonstration. <i>Light: Science and Applications</i> , 2020, 9, 45.	7.7	43
44	A new ultraviolet transparent hydra-cyanurate K ₂ (C ₃ N ₃ O ₃ H) with strong optical anisotropy from delocalized π -bonds. <i>Dalton Transactions</i> , 2019, 48, 2271-2274.	1.6	40
45	A rich structural chemistry in π -conjugated hydroisocyanurates: layered structures of A ₂ B(H ₂ C ₃ N ₃ O ₃) ₄ ·nH ₂ O (A = K, Rb, Cs; B = Mg, Ca; n = 4, 10) with high ultraviolet transparency and strong optical anisotropy. <i>Dalton Transactions</i> , 2019, 48, 9048-9052.	1.6	40
46	In Situ Phase-Induced Spatial Charge Separation in Core-Shell Oxynitride Nanocube Heterojunctions Realizing Robust Solar Water Splitting. <i>Advanced Energy Materials</i> , 2017, 7, 1700171.	10.2	39
47	CsSiB ₃ O ₇ : A Beryllium-Free Deep-Ultraviolet Nonlinear Optical Material Discovered by the Combination of Electron Diffraction and First-Principles Calculations. <i>Chemistry of Materials</i> , 2018, 30, 2203-2207.	3.2	39
48	Crystal Growth, Structure, and Optical Properties of LiGaGe ₂ Se ₆ . <i>Inorganic Chemistry</i> , 2016, 55, 8672-8680.	1.9	37
49	A Deep-UV Nonlinear Optical Borosulfate with Incommensurate Modulations. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11457-11463.	7.2	37
50	Negative thermal expansion and electronic structure variation of chalcopyrite type LiGaTe ₂ . <i>RSC Advances</i> , 2018, 8, 9946-9955.	1.7	35
51	Facile Growth of an Ultraviolet Hydroisocyanurate Crystal with Strong Nonlinearity and a Wide Phase-Matching Region from π -Conjugated (HC ₃ N ₃ O ₃) ²⁻ Groups. <i>Inorganic Chemistry</i> , 2019, 58, 11289-11293.	1.9	34
52	Rational structural design of benzothiazolium-based crystal HDB-T with high nonlinearity and efficient terahertz-wave generation. <i>Chemical Communications</i> , 2019, 55, 7950-7953.	2.2	34
53	Highly Distorted [HgS ₄] Motif-Driven Structural Symmetry Degradation and Strengthened Second-Harmonic Generation Response in the Defect Diamond-Like Chalcogenide Hg ₃ P ₂ S ₈ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37331-37338.	4.0	34
54	The second-harmonic generation intensification derived from localization conjugated π -orbitals in O ₂ ²⁻ . <i>Chemical Communications</i> , 2018, 54, 1445-1448.	2.2	33

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55	Deep-ultraviolet nonlinear optical crystals by design: A computer-aided modeling blueprint from first principles. <i>Science China Materials</i> , 2020, 63, 1597-1612.	3.5	33
56	Heteroanionic Melilite Oxysulfide: A Promising Infrared Nonlinear Optical Candidate with a Strong Second-Harmonic Generation Response, Sufficient Birefringence, and Wide Bandgap. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23645-23652.	4.0	33
57	Ba ₂ M(C ₃ N ₃ O ₃) ₂ (M = Sr, Pb): Band Engineering from π-π Interaction via Homovalent Substitution in Metal Cyanurates Containing Planar π-Conjugated Groups. <i>Inorganic Chemistry</i> , 2019, 58, 9553-9556.	1.9	32
58	K ₂ ZnGe ₃ S ₈ : A Congruent-Melting Infrared Nonlinear-Optical Material with a Large Band Gap. <i>Inorganic Chemistry</i> , 2018, 57, 9446-9452.	1.9	31
59	Flower-like cobalt carbide for efficient carbon dioxide conversion. <i>Chemical Communications</i> , 2020, 56, 7849-7852.	2.2	30
60	LiO ₄ tetrahedra lock the alignment of π-conjugated layers to maximize optical anisotropy in metal hydroisocyanurates. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2850-2854.	3.0	29
61	Discoloration Effect and One-Step Synthesis of Hydrogen Tungsten and Molybdenum Bronze (H _x MO ₃) using Liquid Metal at Room Temperature. <i>ACS Omega</i> , 2019, 4, 7428-7435.	1.6	28
62	Nonlayered CdSe Flakes Homojunctions. <i>Advanced Functional Materials</i> , 2020, 30, 1908902.	7.8	28
63	A Series of Organic-Inorganic Hybrid Compounds [(C ₂ H ₅) ₄ N]InCl ₄ ·Br _x (x = 0, 2, 4): Synthesis, Crystal Structure, and Nonlinear Optical Properties. <i>Inorganic Chemistry</i> , 2020, 59, 5721-5727.	1.9	28
64	Interfacial wetting behaviors of liquid Ga alloys/FeGa ₃ based on metallic bond interaction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 569, 102-109.	2.3	27
65	Highly efficient ultraviolet high-harmonic generation from epsilon-near-zero indium tin oxide films. <i>Photonics Research</i> , 2021, 9, 317.	3.4	26
66	Methyl substitution for noncentrosymmetric stacking: a promising organic single crystal for highly efficient terahertz-wave generation. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4226-4233.	2.7	25
67	Optimal arrangement of π-conjugated anionic groups in hydro-isocyanurates leads to large optical anisotropy and second-harmonic generation effect. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3674-3686.	3.0	24
68	SrZnSnSe ₄ : A quaternary selenide with large second harmonic generation and birefringence. <i>Journal of Alloys and Compounds</i> , 2022, 904, 163944.	2.8	24
69	Optical properties of LiGaSe ₂ noncentrosymmetric crystal. <i>Optical Materials</i> , 2017, 72, 795-804.	1.7	23
70	Beryllium-Free Nonlinear-Optical Crystals A ₃ Ba ₃ Li ₂ Ga ₄ B ₆ O ₂₀ F (A = K) Tj ETQq0 0 0 rgBT /Overloc Strong Covalent Connection between the ²[Li ₂ Ga ₄ B ₆ O ₂₀ F] ⁹⁻ Double Layers. <i>Inorganic Chemistry</i> , 2018, 57, 5669-5676.	1.9	23
71	Poly(difluorophosphazene) as the First Deep-Ultraviolet Nonlinear Optical Polymer: A First-Principles Prediction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10250-10254.	7.2	23
72	Robust Hydrogenation of Nitrile and Nitro Groups to Primary Amines Using Ni ₂ P as a Catalyst and Ammonia Borane under Ambient Conditions. <i>Asian Journal of Organic Chemistry</i> , 2017, 6, 1589-1593.	1.3	22

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73	Nonlinear Optical Crystal $\text{Rb}_4\text{Sn}_3\text{Cl}_2\text{Br}_8$: Synthesis, Structure, and Characterization. <i>Crystal Growth and Design</i> , 2018, 18, 380-385.	1.4	22
74	Zero Linear Compressibility in Nondense Borates with a $\text{Lu}_2\text{B}_3\text{O}_{10}$ -like Structure. <i>Advanced Materials</i> , 2018, 30, e1801313.	11.1	22
75	$\text{Li}_4\text{HgSn}_2\text{Se}_7$: The First Second-Order Nonlinear Optical-Active Selenide in the IV_2VI_7 Diamond-like Family. <i>Crystal Growth and Design</i> , 2019, 19, 5494-5497.	1.4	22
76	Three-dimensional nonlinear photonic crystal in naturally grown potassium tantalate niobate perovskite ferroelectrics. <i>Light: Science and Applications</i> , 2020, 9, 193.	7.7	22
77	Parallel Alignment of I^- -Conjugated Anions in Hydroisocyanurates Enhancing Optical Anisotropy. <i>Inorganic Chemistry</i> , 2019, 58, 8948-8952.	1.9	20
78	Optimal d-band-induced Cu_3N as a cocatalyst on metal sulfides for boosting photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22601-22606.	5.2	20
79	$\text{Sr}_6\text{Cd}_2\text{Sb}_6\text{O}_7\text{S}_{10}$: Strong SHG Response Activated by Highly Polarizable Sb/O/S Groups. <i>Angewandte Chemie</i> , 2019, 131, 8162-8165.	1.6	19
80	Hydroisocyanurates $\text{X}_2\text{Y}(\text{H}_2\text{C}_3\text{N}_3\text{O}_3)_4 \cdot 4\text{H}_2\text{O}$ ($\text{X} = \text{K}, \text{Cs}$; $\text{Y} = \text{Zn}, \text{Cd}$) with large birefringence stemming from I^- -conjugated $(\text{H}_2\text{C}_3\text{N}_3\text{O}_3)^{\text{sup-}}$ anions. <i>CrystEngComm</i> , 2020, 22, 2128-2131.	1.3	19
81	$\text{Cs}_2\text{Bi}_2\text{OSi}_2\text{O}_7$: A Promising Bismuth Silicate Nonlinear Optical Crystal with Face-Sharing BiO_5 Polyhedra Exhibiting Strengthened Second Harmonic Generation Response and Birefringence. <i>Chemistry of Materials</i> , 2022, 34, 3365-3372.	3.2	19
82	$\text{LiSr}_3\text{Be}_3\text{B}_3\text{O}_9\text{F}_4$: a new ultraviolet nonlinear optical crystal for fourth-harmonic generation of Nd:YAG lasers. <i>New Journal of Chemistry</i> , 2017, 41, 4269-4272.	1.4	18
83	Experimental and ab initio studies of $\text{Cd}_5(\text{BO}_3)_3\text{Cl}$: the first cadmium borate chlorine NLO material with isolated BO_3 groups. <i>Dalton Transactions</i> , 2017, 46, 15228-15234.	1.6	18
84	Intrinsic zero thermal expansion in cube cyanurate $\text{K}_6\text{Cd}_3(\text{C}_3\text{N}_3\text{O}_3)_4$. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2291-2295.	3.0	18
85	Highly Efficient Super-Continuum Generation on an Epsilon-Near-Zero Surface. <i>ACS Omega</i> , 2020, 5, 2458-2464.	1.6	17
86	Cyano-Based Materials with Giant Optical Anisotropy and Second Harmonic-Generation Effect. <i>Inorganic Chemistry</i> , 2018, 57, 15001-15008.	1.9	16
87	Highly efficient photocatalytic reduction of CO_2 to CO using cobalt oxide-coated spherical mesoporous silica particles as catalysts. <i>Chemical Communications</i> , 2019, 55, 11523-11526.	2.2	16
88	"Old dog, new tricks": the lone pair effect inducing divergent optical responses in lead cyanurates containing I^- -bonds. <i>Dalton Transactions</i> , 2020, 49, 1370-1374.	1.6	16
89	$\text{Na}_2\text{MnGe}_2\text{Se}_6$: a new Mn-based antiferromagnetic chalcogenide with large Mn-Mn separation. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10812-10819.	2.7	15
90	Two Novel Deep-Ultraviolet Nonlinear Optical Crystals with Shorter Phase-Matching Second Harmonic Generation than $\text{KBe}_2\text{BO}_3\text{F}_2$: A First-Principles Prediction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800276.	1.2	15

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91	“Two in one” an unprecedented mixed anion, Ba ₂ (C ₃ N ₃ O ₃)(CNO), with the coexistence of isolated sp and sp ² ĩ-conjugated groups. Dalton Transactions, 2019, 48, 14246-14250.	1.6	15
92	Investigations on the Synthesis, Crystal Structure, Linear- and Nonlinear-Optical Properties of the Zinc Germanate Rb ₂ ZnGe ₂ O ₆ . Inorganic Chemistry, 2022, 61, 706-712.	1.9	15
93	BaM ₂ As ₂ S ₆ (M = Cd, Hg): Synthesis, crystal structure, optical and electronic properties. Journal of Alloys and Compounds, 2018, 762, 143-148.	2.8	14
94	Synthesis, Structure, and Characterization of Two Mixed-Cation Quaternary Chalcogenides K ₂ BaSnQ ₄ (Q = S, Se). Inorganic Chemistry, 2019, 58, 7118-7125.	1.9	14
95	Surface Nonlinear Optics on Centrosymmetric Dirac Nodal-Line Semimetal ZrSiS. Advanced Materials, 2020, 32, e1904498.	11.1	14
96	Angular engineering strategy of an additional periodic phase for widely tunable phase-matched deep-ultraviolet second harmonic generation. Light: Science and Applications, 2022, 11, 31.	7.7	14
97	Growth, structure, optical and thermal properties of three new organic-inorganic hybrid crystals: (C ₂ H ₇ N ₄ S) ₃ BiCl ₆ ·H ₂ O, (C ₂ H ₇ N ₄ S) ₂ BiBr ₅ , and (C ₂ H ₅ N ₄ S) ₂ BiI ₅ . Polyhedron, 2017, 127, 478-488.	1.0	13
98	Pb ₇ F ₁₂ Cl ₂ : a promising infrared nonlinear optical material with high laser damage threshold. Dalton Transactions, 2019, 48, 13529-13535.	1.6	13
99	Rb ₇ SrY ₂ (B ₅ O ₁₀) ₃ : A Rare-Earth Pentaborate with Moderate Second-Harmonic Response and Interesting Phase-Matching Behavior. Inorganic Chemistry, 2019, 58, 8943-8947.	1.9	13
100	Nonlinear organic-inorganic halide hybrids containing unprecedented linear [MIX ₂] ⁺ coordination units and quasi-two-dimensional lone pairs. Chemical Communications, 2020, 56, 4894-4897.	2.2	13
101	Large Magnetocaloric Effect in Li ₃ K ₉ Gd ₃ (BO ₃) ₇ Crystal Featuring Sandwich-Like Three-Dimensional Framework. Inorganic Chemistry, 2021, 60, 6796-6803.	1.9	13
102	Acentric Organic-Inorganic Hybrid Halide [N(CH ₃) ₃] ₄ HgBr ₂ I ₂ Featuring an Isolated [HgBr ₂ I ₂] ²⁺ Tetrahedron and Second-Order Nonlinearity. Inorganic Chemistry, 2021, 60, 6829-6835.	1.9	13
103	Structural modification from centrosymmetric Rb ₄ Hg ₂ Ge ₂ S ₈ to noncentrosymmetric (Na ₃ Rb)Hg ₂ Ge ₂ S ₈ : mixed alkali metals strategy for infrared nonlinear optical material design. Journal of Materials Chemistry C, 2022, 10, 3300-3306.	2.7	13
104	MoSi ₂ N ₄ : A 2D Regime with Strong Exciton-Phonon Coupling. Advanced Optical Materials, 2022, 10, .	3.6	13
105	Data-driven prediction of diamond-like infrared nonlinear optical crystals with targeting performances. Scientific Reports, 2020, 10, 3486.	1.6	12
106	Na ₂ GaS ₂ Cl: a new sodium-rich chalcogenide with two-dimensional [GaS ₂] ²⁻ layers and wide interlayer space. Dalton Transactions, 2021, 50, 11167-11172.	1.6	12
107	Anion-Centered Polyhedron Strategy for Strengthening Photon Emission Induced by Electron-Phonon Coupling. Inorganic Chemistry, 2022, 61, 4071-4079.	1.9	12
108	Structural Evolution in BaSn ₂ F ₅ X (X = Cl, Br, I): A Family of Alkaline Earth Metal Tin Mixed Halides. Inorganic Chemistry, 2017, 56, 13593-13599.	1.9	11

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109	Langasite Family Midinfrared Nonlinear Optical Oxide Materials: Structure, Property, and Applications. <i>International Journal of Optics</i> , 2017, 2017, 1-13.	0.6	11
110	Poly(difluorophosphazene) as the First Deep-UV Nonlinear Optical Polymer: A First-Principles Prediction. <i>Angewandte Chemie</i> , 2019, 131, 10356-10360.	1.6	11
111	A Deep-UV Nonlinear Optical Borosulfate with Incommensurate Modulations. <i>Angewandte Chemie</i> , 2021, 133, 11558-11564.	1.6	11
112	LiGaP2O7: A Potential UV Nonlinear-Optical Crystal. <i>Inorganic Chemistry</i> , 2019, 58, 6597-6600.	1.9	10
113	Synthesis, Crystal Structure, and Nonlinear Optical Property of an Anhydrous Sulfate $\text{KTb}(\text{SO}_4)_2$. <i>Inorganic Chemistry</i> , 2021, 60, 15041-15047.	1.9	10
114	Infrared nonlinear optical sulfide $\text{CsCd}_4\text{In}_5\text{S}_{12}$ exhibiting large second harmonic generation response. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5183-5189.	2.7	10
115	Shedding Light on the Structure and Characterization of $\text{K}_2\text{ZnGe}_2\text{O}_6$: A Phase-Matchable Nonlinear Optical Crystal. <i>Inorganic Chemistry</i> , 2022, 61, 11471-11477.	1.9	10
116	$\text{M}_2(\text{SeO}_3)\text{F}_2$ (M = Zn, Cd): understanding the structure directing effect of $[\text{SeO}_3]^{2-}$ groups on constructing ordered oxyfluorides. <i>CrystEngComm</i> , 2019, 21, 2485-2489.	1.3	9
117	Electron-Beam Irradiation Induced Regulation of Surface Defects in Lead Halide Perovskite Thin Films. <i>Research</i> , 2021, 2021, 9797058.	2.8	9
118	Syntheses, structure and properties of a new series of organic-inorganic Hg-based halides: adjusting halogens resulted in huge performance mutations. <i>Dalton Transactions</i> , 2021, 50, 7563-7570.	1.6	9
119	First principle study of nonlinear optical crystals. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 114203.	0.2	9
120	Temperature dependent Raman spectroscopic study of Fano resonance in perovskite ferroelectric $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ single crystal. <i>Optical Materials Express</i> , 2022, 12, 247.	1.6	9
121	Mid-Infrared Nonlinear Optical Halides with Diamond-like Structures: A Theoretical and Experimental Study. <i>Chemistry of Materials</i> , 2022, 34, 5301-5310.	3.2	9
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