Fei Liang

List of Publications by Year
in descending order

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157 papers	6,926 citations	71061 41 h-index	69214 77 g-index
163 all docs	163 docs citations	163 times ranked	4975 citing authors

#	Article	IF	Citations
1	SrZnSnSe4: A quaternary selenide with large second harmonic generation and birefringence. Journal of Alloys and Compounds, 2022, 904, 163944.	2.8	24
2	Structural modification from centrosymmetric Rb₄Hg₂Ge₂S₈ to noncentrosymmetric (Na₃Rb)Hg₂Ge₂S₈: mixed alkali metals strategy for infrared nonlinear optical material design. Journal of Materials Chemistry C, 2022, 10, 3300-3306.	2.7	13
3	Recent progress on acentric La₃Nb_{0.5}Ga_{5.5}O₁₄ crystals: large-size growth and application to ultrafast mid-infrared laser systems [Invited]. Optical Materials Express, 2022, 12, 863.	1.6	5
4	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
5	Sliding Modulation in Nonlinear Optical Effect in Two-Dimensional van der Waals Cu₂MoS₄. ACS Applied Materials & Interfaces, 2022, 14, 9535-9543.	4.0	5
6	Molecular Engineering Design of the First Sr₂Be₂B₂O₇-type Fluoride Carbonates AMgLi₂(CO₃)₂F (A=K, Rb) as Deep-Ultraviolet Birefringent Crystal^{â€»}. Acta Chimica Sinica, 2022, 80, 105.	0.5	1
7	Infrared nonlinear optical sulfide CsCd₄In₅S₁₂ exhibiting large second harmonic generation response. Journal of Materials Chemistry C, 2022, 10, 5183-5189.	2.7	10
8	Phase-matching condition in rotatory nonlinear optics. Physical Review A, 2022, 105, .	1.0	1
9	Anion-Centered Polyhedron Strategy for Strengthening Photon Emission Induced by Electronâ€“Phonon Coupling. Inorganic Chemistry, 2022, 61, 4071-4079.	1.9	12
10	Revealing Electronâ€“Phonon Coupling Dependence on the Ï€-Conjugated Groups in Rare-Earth Borates. Crystal Growth and Design, 2022, 22, 2686-2691.	1.4	5
11	Cs₂Bi₂OSi₂O₇: A Promising Bismuth Silicate Nonlinear Optical Crystal with Face-Sharing BiO₅ Polyhedra Exhibiting Strengthened Second Harmonic Generation Response and Birefringence. Chemistry of Materials, 2022, 34, 3365-3372.	3.2	19
12	MoSi₂N₄: A 2D Regime with Strong Excitonâ€“Phonon Coupling. Advanced Optical Materials, 2022, 10, .	3.6	13
13	Temperature dependent Raman spectroscopic study of Fano resonance in perovskite ferroelectric KTa_{1-x}Nb_xO₃ single crystal. Optical Materials Express, 2022, 12, 247.	1.6	9
14	Investigations on the Synthesis, Crystal Structure, Linear- and Nonlinear-Optical Properties of the Zinc Germanate Rb₂ZnGe₂O₆. Inorganic Chemistry, 2022, 61, 706-712.	1.9	15
15	Heteroanionic Melilite Oxysulfide: A Promising Infrared Nonlinear Optical Candidate with a Strong Second-Harmonic Generation Response, Sufficient Birefringence, and Wide Bandgap. ACS Applied Materials & Interfaces, 2022, 14, 23645-23652.	4.0	33
16	Mid-Infrared Nonlinear Optical Halides with Diamond-like Structures: A Theoretical and Experimental Study. Chemistry of Materials, 2022, 34, 5301-5310.	3.2	9
17	Enhanced Electronâ€“Phonon Coupling Effect in Rare-Earth Borate Crystals Containing a â€œQuasi-Free-Oxygenâ€•Motif. Inorganic Chemistry, 2022, 61, 10228-10233.	1.9	5
18	SrAgAsS₄: A Noncentrosymmetric Sulfide with Good Infrared Nonlinear Optical Performance Induced by Aliovalent Substitution from Centrosymmetric SrGa₂S₄. Inorganic Chemistry, 2022, 61, 9205-9212.	1.9	6

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19	Periodically Poled Nonlinear Photonic Crystal KTa_{0.51}Nb_{0.49}O₃ Combining Wide Transparent Range and Large Quadratic Coefficient. Advanced Optical Materials, 2022, 10, .	3.6	4
20	Directional Construction of New Nonlinear Optical Bifunctional Units through Molecular Engineering Design Inspired by the B₃O₇-Typed Configuration. ACS Applied Materials & Interfaces, 2022, 14, 32270-32278.	4.0	6
21	Shedding Light on the Structure and Characterization of K₂ZnGe₂O₆: A Phase-Matchable Nonlinear Optical Crystal. Inorganic Chemistry, 2022, 61, 11471-11477.	1.9	10
22	Co-crystal AXÂ·(H₃C₃N₃O₃) (A = Na, Rb, Cs; X = Br, I): a series of strongly anisotropic alkali halide cyanurates with a planar structural motif and large birefringence. Dalton Transactions, 2021, 50, 11555-11561.	1.6	7
23	Zn(H2C3N3O3)2Â·3H2O: the first single-d10 transition metal based ultraviolet hydroisocyanurate crystal with large birefringence. Dalton Transactions, 2021, 50, 5617-5623.	1.6	6
24	Na₂GaS₂Cl: a new sodium-rich chalcohalide with two-dimensional [GaS₂]_{âˆž} layers and wide interlayer space. Dalton Transactions, 2021, 50, 11167-11172.	1.6	12
25	Growth of a large-aperture mid-infrared nonlinear optical La₃Nb_{0.5}Ga_{5.5}O₁₄ crystal for optical parametric chirped-pulse amplification. CrystEngComm, 2021, 23, 7212-7218.	1.3	5
26	Mid-infrared pulsed nanosecond difference frequency generation of oxide LGN crystal up to 5.7 Âµm. Optics Letters, 2021, 46, 785.	1.7	8
27	Highly efficient ultraviolet high-harmonic generation from epsilon-near-zero indium tin oxide films. Photonics Research, 2021, 9, 317.	3.4	26
28	The First Positive Uniaxial Cyanurate Crystals Containing a Crown-like Anionic Group Arrangement and Strengthened Optical Anisotropy. Crystal Growth and Design, 2021, 21, 2348-2354.	1.4	7
29	Large Magnetocaloric Effect in Li₃K₉Gd₃(BO₃)₇ Crystal Featuring Sandwich-Like Three-Dimensional Framework. Inorganic Chemistry, 2021, 60, 6796-6803.	1.9	13
30	A Deepâ€UV Nonlinear Optical Borosulfate with Incommensurate Modulations. Angewandte Chemie, 2021, 133, 11558-11564.	1.6	11
31	A Deepâ€UV Nonlinear Optical Borosulfate with Incommensurate Modulations. Angewandte Chemie - International Edition, 2021, 60, 11457-11463.	7.2	37
32	Acentric Organicâ€“Inorganic Hybrid Halide [N(CH₃)₄]₂HgBr₂I₂ Featuring an Isolated [HgBr₂I₂]^{2â€“} Tetrahedron and Second-Order Nonlinearity. Inorganic Chemistry, 2021, 60, 6829-6835.	1.9	13
33	Electron-Beam Irradiation Induced Regulation of Surface Defects in Lead Halide Perovskite Thin Films. Research, 2021, 2021, 9797058.	2.8	9
34	Highly Distorted [HgS₄] Motif-Driven Structural Symmetry Degradation and Strengthened Second-Harmonic Generation Response in the Defect Diamond-Like Chalcogenide Hg₃P₂S₈. ACS Applied Materials & Interfaces, 2021, 13, 37331-37338.	4.0	34
35	Synthesis, Crystal Structure, and Nonlinear Optical Property of an Anhydrous Sulfate KTb(SO₄)₂. Inorganic Chemistry, 2021, 60, 15041-15047.	1.9	10
36	Syntheses, structure and properties of a new series of organicâ€“inorganic Hg-based halides: adjusting halogens resulted in huge performance mutations. Dalton Transactions, 2021, 50, 7563-7570.	1.6	9

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37	Synthesis and Characterization of New-Type Ionic Cocrystals with Cyanuric Acid and Alkali Halides: AXÂ·(H3C3N3O3)2 (A = Rb, Cs; X = Cl, Br). Crystal Growth and Design, 2021, 21, 7194-7200.	1.4	0
38	Dimensionality reduction made high-performance mid-infrared nonlinear halide crystal. Materials Today Physics, 2021, 21, 100569.	2.9	44
39	Inverse Design of Ferroelectricâ€Order in Perovskite Crystal for Selfâ€Powered Ultraviolet Photodetection. Advanced Materials, 2021, , 2105108.	11.1	7
40	First-Principles Design and Simulations Promote the Development of Nonlinear Optical Crystals. Accounts of Chemical Research, 2020, 53, 209-217.	7.6	194
41	â€œOld dog, new tricksâ€: the lone pair effect inducing divergent optical responses in lead cyanurates containing Ï€-bonds. Dalton Transactions, 2020, 49, 1370-1374.	1.6	16
42	Structural Diversity and Giant Birefringence in Cyanates BaCNOX (X = Cl, Br, I, and CNO) Containing Linear Ï€-Conjugated Units: A Combined Experimental and Theoretical Study. Crystal Growth and Design, 2020, 20, 1242-1247.	1.4	6
43	Surface Nonlinear Optics on Centrosymmetric Dirac Nodalâ€Line Semimetal ZrSiS. Advanced Materials, 2020, 32, e1904498.	11.1	14
44	Optimal d-band-induced Cu₃N as a cocatalyst on metal sulfides for boosting photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 22601-22606.	5.2	20
45	Structural Evolution and Optical Property Tunability by Halogen Substitution in [N(CH₃)₄]MX₂ (M = Ga⁺, In⁺, X = Cl, Br): A Family of Organically Templated Metal Halides. Inorganic Chemistry, 2020, 59, 10736-10745.	1.9	6
46	Three-dimensional nonlinear photonic crystal in naturally grown potassiumâ€“tantalateâ€“niobate perovskite ferroelectrics. Light: Science and Applications, 2020, 9, 193.	7.7	22
47	Optimal arrangement of Ï€-conjugated anionic groups in hydro-isocyanurates leads to large optical anisotropy and second-harmonic generation effect. Inorganic Chemistry Frontiers, 2020, 7, 3674-3686.	3.0	24
48	Na4CdGe2S7: A Sodium-Rich Quaternary Wide-Band-Gap Chalcogenide with Two-Dimensional [Ge2CdS7]â^ž Layers. Inorganic Chemistry, 2020, 59, 16132-16136.	1.9	5
49	From BiF₃to BiF₃Â·H₂O: diverse Bi(<scp>iii</scp>) coordination for structural transformation and birefringence regulation. CrystEngComm, 2020, 22, 6838-6846.	1.3	7
50	K₄Cu₃(C₃N₃O₃)₂X (X = Cl,) Tj ETQq0 0 0 rgBT /Overlock Chemical Communications, 2020, 56, 12534-12537.	2.2	4
51	Abnormal bandgap enlargement resulted in a promising mid-infrared nonlinear optical material Rb₂CdBrI₃with an ultrahigh laser damage threshold. Journal of Materials Chemistry C, 2020, 8, 9005-9011.	2.7	5
52	Deep-ultraviolet nonlinear optical crystals by design: A computer-aided modeling blueprint from first principles. Science China Materials, 2020, 63, 1597-1612.	3.5	33
53	Flower-like cobalt carbide for efficient carbon dioxide conversion. Chemical Communications, 2020, 56, 7849-7852.	2.2	30
54	Hydroisocyanurates X₂Y(H₂C₃N₃O₃)₄Â·4H₂O (X = K, Cs; Y = Zn, Cd) with large birefringence stemming from Ï€-conjugated (H₂C₃N₃O₃)^{â^'}anions. CrystEngComm, 2020, 22, 2128-2131.	1.3	19

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55	Pushing periodic-disorder-induced phase matching into the deep-ultraviolet spectral region: theory and demonstration. Light: Science and Applications, 2020, 9, 45.	7.7	43
56	Nonlinear organicâ€“inorganic halide hybrids containing unprecedented linear [MIX₂]^{â”} coordination units and quasi-two-dimensional lone pairs. Chemical Communications, 2020, 56, 4894-4897.	2.2	13
57	Rational Design of the Nonlinear Optical Response in a Tin Iodate Fluoride Sn(IO₃)₂F₂. Chemistry of Materials, 2020, 32, 2615-2620.	3.2	71
58	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
59	Data-driven prediction of diamond-like infrared nonlinear optical crystals with targeting performances. Scientific Reports, 2020, 10, 3486.	1.6	12
60	Methyl substitution for noncentrosymmetric stacking: a promising organic single crystal for highly efficient terahertz-wave generation. Journal of Materials Chemistry C, 2020, 8, 4226-4233.	2.7	25
61	Defect Engineering of MoS₂ for Room-Temperature Terahertz Photodetection. ACS Applied Materials & Interfaces, 2020, 12, 7351-7357.	4.0	52
62	Nonlayered CdSe Flakes Homojunctions. Advanced Functional Materials, 2020, 30, 1908902.	7.8	28
63	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.	2.1	82
64	Highly Efficient Super-Continuum Generation on an Epsilon-Near-Zero Surface. ACS Omega, 2020, 5, 2458-2464.	1.6	17
65	A Series of Organicâ€“Inorganic Hybrid Compounds [(C₂H₅)₄N]InCl_{4â€“x}Br_x (x = 0, 2, 4): Synthesis, Crystal Structure, and Nonlinear Optical Properties. Inorganic Chemistry, 2020, 59, 5721-5727.	1.9	28
66	High-efficiency Er-doped yttrium gallium garnet laser resonantly pumped by a laser diode at 147â€‰â€‰Âµm. Optics Letters, 2020, 45, 4361.	1.7	7
67	Pb₇F₁₂Cl₂: a promising infrared nonlinear optical material with high laser damage threshold. Dalton Transactions, 2019, 48, 13529-13535.	1.6	13
68	Facile Growth of an Ultraviolet Hydroisocyanurate Crystal with Strong Nonlinearity and a Wide Phase-Matching Region from Ï€-Conjugated (HC₃N₃O₃)^{2â€“} Groups. Inorganic Chemistry, 2019, 58, 11289-11293.	1.9	34
69	Ba₂M(C₃N₃O₃)₂ (M = Sr, Pb): Band Engineering from pâ”Ï€ Interaction via Homovalent Substitution in Metal Cyanurates Containing Planar Ï€-Conjugated Groups. Inorganic Chemistry, 2019, 58, 9553-9556.	1.9	32
70	Intrinsic zero thermal expansion in cube cyanurate K₆Cd₃(C₃N₃O₃)₄. Inorganic Chemistry Frontiers, 2019, 6, 2291-2295.	3.0	18
71	Rb₇SrY₂(B₅O₁₀)₃: A Rare-Earth Pentaborate with Moderate Second-Harmonic Response and Interesting Phase-Matching Behavior. Inorganic Chemistry, 2019, 58, 8943-8947.	1.9	13
72	Efficient and Selective CO2 Reduction Integrated with Organic Synthesis by Solar Energy. CheM, 2019, 5, 2605-2616.	5.8	179

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73	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.	1.9	49
74	LiCsPbP2O7: A new alkali metal lead pyrophosphate featuring two dimensional [LiP2O7]â^ž layer. Journal of Solid State Chemistry, 2019, 280, 120823.	1.4	0
75	Highly efficient photocatalytic reduction of CO₂ to CO using cobalt oxide-coated spherical mesoporous silica particles as catalysts. Chemical Communications, 2019, 55, 11523-11526.	2.2	16
76	â€œTwo in oneâ€• an unprecedented mixed anion, Ba₂(C₃N₃O₃)(CNO), with the coexistence of isolated sp and sp² Ï€-conjugated groups. Dalton Transactions, 2019, 48, 14246-14250.	1.6	15
77	LiO₄tetrahedra lock the alignment of Ï€-conjugated layers to maximize optical anisotropy in metal hydroisocyanurates. Inorganic Chemistry Frontiers, 2019, 6, 2850-2854.	3.0	29
78	Li4HgSn2Se7: The First Second-Order Nonlinear Optical-Active Selenide in the I4â€“IIâ€“IV2â€“VI7 Diamond-like Family. Crystal Growth and Design, 2019, 19, 5494-5497.	1.4	22
79	A new ultraviolet transparent hydra-cyanurate K2(C3N3O3H) with strong optical anisotropy from delocalized Ï€-bonds. Dalton Transactions, 2019, 48, 2271-2274.	1.6	40
80	N-doped carbon coated NiCo2S4 hollow nanotube as bifunctional electrocatalyst for overall water splitting. Carbon, 2019, 145, 521-528.	5.4	83
81	Parallel Alignment of Ï€-Conjugated Anions in Hydroisocyanurates Enhancing Optical Anisotropy. Inorganic Chemistry, 2019, 58, 8948-8952.	1.9	20
82	Cs3 Na(H2 C3 N3 O3)4 Â·3H2 O: A Mixed Alkali-Metal Hydroisocyanurate Nonlinear Optical Material Containing Ï€-Conjugated Six-Membered-Ring Units. European Journal of Inorganic Chemistry, 2019, 2019, 2789-2789.	1.0	1
83	Chloride carbodiimide K₁₂Pb₅₁(CN₂)₃₀Cl₅₄ with an unprecedented 45 Ã… unit cell axis and a large birefringence. New Journal of Chemistry, 2019, 43, 9766-9770.	1.4	6
84	Poly(difluorophosphazene) as the First Deepâ€Ultraviolet Nonlinear Optical Polymer: A Firstâ€Principles Prediction. Angewandte Chemie - International Edition, 2019, 58, 10250-10254.	7.2	23
85	Poly(difluorophosphazene) as the First Deepâ€Ultraviolet Nonlinear Optical Polymer: A Firstâ€Principles Prediction. Angewandte Chemie, 2019, 131, 10356-10360.	1.6	11
86	A rich structural chemistry in Ï€-conjugated hydroisocyanurates: layered structures of A₂B(H₂C₃N₃O₃)₄Â·nH₂O (A = K, Rb, Cs; B = Mg, Ca; n = 4, 10) with high ultraviolet transparency and strong optical anisotropy. Dalton Transactions, 2019, 48, 9048-9052.	1.6	40
87	Rational structural design of benzothiazolium-based crystal HDB-T with high nonlinearity and efficient terahertz-wave generation. Chemical Communications, 2019, 55, 7950-7953.	2.2	34
88	Synthesis, Structure, and Characterization of Two Mixed-Cation Quaternary Chalcogenides K2BaSnQ4 (Q = S, Se). Inorganic Chemistry, 2019, 58, 7118-7125.	1.9	14
89	LiGaP2O7: A Potential UV Nonlinear-Optical Crystal. Inorganic Chemistry, 2019, 58, 6597-6600.	1.9	10
90	Discoloration Effect and One-Step Synthesis of Hydrogen Tungsten and Molybdenum Bronze (H_xMO₃) using Liquid Metal at Room Temperature. ACS Omega, 2019, 4, 7428-7435.	1.6	28

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91	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.	2.2	65
92	M2(SeO3)F2 (M = Zn, Cd): understanding the structure directing effect of [SeO3]2â^' groups on constructing ordered oxyfluorides. CrystEngComm, 2019, 21, 2485-2489.	1.3	9
93	CsLiMgP2O7: A congruently melting pyrophosphate with a [LiMgP4O18] 6-membered ring fundamental building block. Solid State Sciences, 2019, 91, 23-27.	1.5	3
94	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.	1.0	49
95	Sr 6 Cd 2 Sb 6 O 7 S 10 : Strong SHG Response Activated by Highly Polarizable Sb/O/S Groups. Angewandte Chemie, 2019, 131, 8162-8165.	1.6	19
96	Sr₆Cd₂Sb₆O₇S₁₀: Strong SHG Response Activated by Highly Polarizable Sb/O/S Groups. Angewandte Chemie - International Edition, 2019, 58, 8078-8081.	7.2	99
97	BaHgGeSe₄ and SrHgGeSe₄: Two New Hg-Based Infrared Nonlinear Optical Materials. Chemistry of Materials, 2019, 31, 3034-3040.	3.2	104
98	Interfacial wetting behaviors of liquid Ga alloys/FeGa3 based on metallic bond interaction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 569, 102-109.	2.3	27
99	Two Non-Ï€-Conjugated Deep-UV Nonlinear Optical Sulfates. Journal of the American Chemical Society, 2019, 141, 3833-3837.	6.6	183
100	Ba₃(C₃N₃O₃)₂: A New Phase of Barium Cyanurate Containing Parallel Ï€-Conjugated Groups as a Birefringent Material Replacement for Calcite. Crystal Growth and Design, 2019, 19, 568-572.	1.4	49
101	Prediction of MCO [M = S, (Cl₂B)₃B] Systems with Giant Optical Birefringence and Nonlinearity in the Deep-Ultraviolet Region. Inorganic Chemistry, 2019, 58, 77-80.	1.9	4
102	Rational Band Design in Metal Chalcogenide Ba₆Zn₆HfS₁₄: Splitting Orbitals, Narrowing the Forbidden Gap, and Boosting Photocatalyst Properties. Crystal Growth and Design, 2019, 19, 193-199.	1.4	5
103	Artificial Second-Order Nonlinear Optics in a Centrosymmetric Optical Material BiVO₄: Breaking the Prerequisite for Nonlinear Optical Materials. ACS Omega, 2019, 4, 1045-1052.	1.6	6
104	Recent advances and future perspectives on infrared nonlinear optical metal halides. Coordination Chemistry Reviews, 2019, 380, 83-102.	9.5	166
105	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.	6.6	135
106	Monofluorophosphates: A new candidate of deep-ultraviolet nonlinear optical materials. Chinese Science Bulletin, 2019, 64, 369-370.	0.4	0
107	Metallic Bond-Enabled Wetting Behavior at the Liquid Ga/CuGa₂ Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 9203-9210.	4.0	101
108	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.	6.6	288

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109	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.	6.6	117
110	Beryllium-Free Nonlinear-Optical Crystals A₃Ba₃Li₂Ga₄B₆O₂₀F (A = K) Tj ETQq0 0 0 rgBT /Overlock Strong Covalent Connection between the _{âˆž}²[Li₂Ga₄B₆O₂₀F]^{9â€“} Water Splitting. Angewandte Chemie, 2018, 57, 5669-5676.	1.9	23
111	In₂O_{3â€“}_x/In₂S₃ Lateral Heterostructures Enabling Robust Broadbandâ€Light Photoâ€Electrochemical Water Splitting (Adv.) Tj ETQq1 1 0.784314 rgBT /Over	10.2	5
112	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.	3.0	90
113	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.	2.7	51
114	Highly Efficient Photocatalytic System Constructed from CoP/Carbon Nanotubes or Graphene for Visibleâ€Lightâ€Driven CO₂ Reduction. Chemistry - A European Journal, 2018, 24, 4273-4278.	1.7	47
115	Interstitial Pâ€Doped CdS with Longâ€Lived Photogenerated Electrons for Photocatalytic Water Splitting without Sacrificial Agents. Advanced Materials, 2018, 30, 1705941.	11.1	438
116	Atomically Thin Mesoporous In₂O_{3â€“}_x/In₂S₃ Lateral Heterostructures Enabling Robust Broadbandâ€Light Photoâ€Electrochemical Water Splitting. Advanced Energy Materials, 2018, 8, 1701114.	10.2	106
117	The second-harmonic generation intensification derived from localization conjugated Ï€-orbitals in O₂^{2â^’}. Chemical Communications, 2018, 54, 1445-1448.	2.2	33
118	CsSiB₃O₇: A Beryllium-Free Deep-Ultraviolet Nonlinear Optical Material Discovered by the Combination of Electron Diffraction and First-Principles Calculations. Chemistry of Materials, 2018, 30, 2203-2207.	3.2	39
119	Terahertz optical properties of nonlinear optical CdSe crystals. Optical Materials, 2018, 78, 484-489.	1.7	7
120	Negative thermal expansion and electronic structure variation of chalcopyrite type LiGaTe₂. RSC Advances, 2018, 8, 9946-9955.	1.7	35
121	Noncentrosymmetric Cubic Cyanurate K₆Cd₃(C₃N₃O₃)₄ Containing Isolated Planar Ï€-Conjugated (C₃N₃O₃)^{3â€“} Groups. Inorganic Chemistry, 2018, 57, 32-36.	1.9	48
122	Nonlinear Optical Crystal Rb₄Sn₃Cl₂Br₈: Synthesis, Structure, and Characterization. Crystal Growth and Design, 2018, 18, 380-385.	1.4	22
123	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.	2.7	65
124	Cyano-Based Materials with Giant Optical Anisotropy and Second Harmonic-Generation Effect. Inorganic Chemistry, 2018, 57, 15001-15008.	1.9	16
125	Roomâ€Temperature Ultrabroadband Photodetection with MoS₂ by Electronicâ€Structure Engineering Strategy. Advanced Materials, 2018, 30, e1804858.	11.1	66
126	Two Novel Deep-Ultraviolet Nonlinear Optical Crystals with Shorter Phase-Matching Second Harmonic Generation than KBe2 BO3 F2 : A First-Principles Prediction (Phys. Status Solidi RRL 9/2018). Physica Status Solidi - Rapid Research Letters, 2018, 12, 1870330.	1.2	0

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127	Metallic Co₂C: A Promising Co-catalyst To Boost Photocatalytic Hydrogen Evolution of Colloidal Quantum Dots. ACS Catalysis, 2018, 8, 5890-5895.	5.5	92
128	BaM2As2S6 (MÂ= Cd, Hg): Synthesis, crystal structure, optical and electronic properties. Journal of Alloys and Compounds, 2018, 762, 143-148.	2.8	14
129	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.	6.6	177
130	Zero Linear Compressibility in Nondense Borates with a â€œLuâ€Ban Stoolâ€â€Like Structure. Advanced Materials, 2018, 30, e1801313.	11.1	22
131	Two Novel Deepâ€Ultraviolet Nonlinear Optical Crystals with Shorter Phaseâ€Matching Second Harmonic Generation than KBe₂BO₃F₂: A Firstâ€Principles Prediction. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800276.	1.2	15
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133	Nonbonding Electrons Driven Strong SHG Effect in Hg₂GeSe₄: Experimental and Theoretical Investigations. Inorganic Chemistry, 2018, 57, 6795-6798.	1.9	43
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