

Zheshuai Lin

List of Publications by Year in descending order

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608
docs citations

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14421
citing authors

#	ARTICLE	IF	CITATIONS
1	(SO ₃ CF ₃) ⁺ : A Non- π -Conjugated Motif for Nonlinear Optical Crystals Transparent into the Deep-Ultraviolet Region. <i>Advanced Optical Materials</i> , 2024, 12, .	7.9	1
2	A Machine Learning Study on High Thermal Conductivity Assisted to Discover Chalcogenides with Balanced Infrared Nonlinear Optical Performance. <i>Advanced Materials</i> , 2024, 36, .	24.3	4
3	NaMoO ₃ (IO ₃)(H ₂ O): water molecule introduction induces strong second harmonic generation response, widened band gap and large anisotropy. <i>Dalton Transactions</i> , 2024, 53, 1221-1229.	3.4	1
4	Crystallography, Charge Transfer, and Two-Photon Absorption Relations in Molecular Cocrystals for Two-Photon Excited Fluorescence Imaging. <i>Small</i> , 2024, 20, .	11.2	0
5	Realizing Persistent Zero Area Compressibility over a Wide Pressure Range in Cu ₂ GeO ₄ by Microscopic Orthogonal Braiding Strategy. <i>Angewandte Chemie</i> , 2024, 136, .	2.1	0
6	Realizing Persistent Zero Area Compressibility over a Wide Pressure Range in Cu ₂ GeO ₄ by Microscopic Orthogonal Braiding Strategy. <i>Angewandte Chemie - International Edition</i> , 2024, 63, .	14.8	2
7	Unusual Pressure-Induced Self-Trapped Exciton to Free Exciton Transfer in Chiral 2D Lead Bromide Perovskites. <i>ACS Nano</i> , 2024, 18, 3251-3259.	15.3	5
8	Giant Optical Anisotropy in a Covalent Molybdenum Tellurite via Oxyanion Polymerization. <i>Advanced Science</i> , 2024, 11, .	12.4	2
9	Synthesis, Structure, and Optical Properties of a 0D Hybrid Organic-Inorganic Metal Halide (C ₅ N ₂ H ₁₄ Cl)GeCl ₃ . <i>Inorganic Chemistry</i> , 2024, 63, 4412-4418.	4.2	0
10	Wide-Band Gap Binary Semiconductor P ₃ N ₅ with Highly Anisotropic Optical Linearity and Nonlinearity. <i>Inorganic Chemistry</i> , 2024, 63, 5220-5226.	4.2	0
11	Record Second-Harmonic Generation and Birefringence in an Ultraviolet Antimonate by Bond Engineering. <i>Journal of the American Chemical Society</i> , 2024, 146, 9975-9983.	14.6	6
12	Evaluation and prospect of Mid-Infrared nonlinear optical materials in f0 rare earth (RE=Sc, Y, La) chalcogenides. <i>Coordination Chemistry Reviews</i> , 2024, 509, 215805.	19.6	2
13	An Unprecedented [BO ₂]-Based Deep-Ultraviolet Transparent Nonlinear Optical Crystal by Superhalogen Substitution. <i>Angewandte Chemie - International Edition</i> , 2024, 63, .	14.8	1
14	An Unprecedented [BO ₂]-Based Deep-Ultraviolet Transparent Nonlinear Optical Crystal by Superhalogen Substitution. <i>Angewandte Chemie</i> , 2024, 136, .	2.1	0
15	Crystallography, Charge Transfer, and Two-Photon Absorption Relations in Molecular Cocrystals for Two-Photon Excited Fluorescence Imaging (Small 17/2024). <i>Small</i> , 2024, 20, .	11.2	0
16	Phase Transitions and Nonlinear Optical Property Modifications in BaGa ₄ Se ₇ . <i>Inorganic Chemistry</i> , 2024, 63, 10042-10049.	4.2	0
17	PbBeB ₂ O ₅ : A High-Performance Ultraviolet Nonlinear-Optical Crystal with Functional [BeB ₂ O ₈] ⁸⁻ Group. <i>Inorganic Chemistry</i> , 2024, 63, 9720-9725.	4.2	0
18	Innentitelbild: An Unprecedented [BO ₂]-Based Deep-Ultraviolet Transparent Nonlinear Optical Crystal by Superhalogen Substitution (<i>Angew. Chem.</i> 28/2024). <i>Angewandte Chemie</i> , 2024, 136, .	2.1	0

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19	Inside Cover: An Unprecedented [BO ₂]-Based Deep-Ultraviolet Transparent Nonlinear Optical Crystal by Superhalogen Substitution (Angew. Chem. Int. Ed. 28/2024). Angewandte Chemie - International Edition, 2024, 63, .	14.8	0
20	Homoatomic Polychalcogenide Nonlinear Optical Anionic Groups with Ultra-Large Optical Anisotropy. Journal of the American Chemical Society, 2024, 146, 16148-16160.	14.6	0
21	Maximizing the linear and nonlinear optical responses of alkaline tricyanomelamine. Fundamental Research, 2023, 3, 974-978.	3.8	9
22	(C ₅ N ₂ H ₁₄)GeBr ₄ : A 2D Organic Germanium Bromide Perovskite with Strong Orange Photoluminescence Properties. Inorganic Chemistry, 2023, 62, 823-829.	4.2	10
23	Toward Large Second-Harmonic Generation and Deep-UV Transparency in Strongly Electropositive Transition Metal Sulfates. Journal of the American Chemical Society, 2023, 145, 3040-3046.	14.6	40
24	Anion vacancy correlated photocatalytic CO ₂ to CO conversion over quantum-confined CdS nanorods under visible light. Journal of Materials Chemistry A, 2023, 11, 3937-3941.	10.5	11
25	Îµ-La(IO ₃) ₃ : A Polar Iodate with High Thermal Stability and a Large Second-Harmonic-Generation Response Obtained by a Supercritical Hydrothermal Method. Inorganic Chemistry, 2023, 62, 6565-6569.	4.2	2
26	AgIn ₅ Se ₈ : a defect diamond-like non-linear optical selenide. Inorganic Chemistry Frontiers, 2023, 10, 3248-3254.	6.0	6
27	Ce ₃ F ₄ (SO ₄) ₄ : cationic framework assembly for designing polar nonlinear optical material through fluorination degree modulation. Inorganic Chemistry Frontiers, 2023, 10, 5270-5277.	6.0	6
28	Second harmonic generation from symmetry breaking stimulated by mixed organic cations in zero-dimensional hybrid metal halides. Dalton Transactions, 2023, 52, 9368-9376.	3.4	0
29	Ga(IO ₃) ₃ : a mid-IR nonlinear optical iodate with balanced performance between band gap and second harmonic generation response. Journal of Materials Chemistry C, 2023, 11, 10828-10833.	5.6	2
30	Mixed Alkali Metal and Alkaline Earth Metal Scandium Borate Birefringence Material with Layered Structure and Short Ultraviolet Cutoff Edge. Inorganic Chemistry, 2023, 62, 10461-10469.	4.2	9
31	Synthesis, Crystal Structure, and Nonlinear-Optical Properties of a Diamond-Like Chalcogenide Cu ₂ GeS ₃ . Inorganic Chemistry, 2023, 62, 10892-10896.	4.2	2
32	Negative Thermal Expansion in the Polymorphic Modification of Double Sulfate Î²-AEu(SO ₄) ₂ (A= Rb ⁺ , Cs ⁺). Inorganic Chemistry, 2023, 62, 12423-12433.	4.2	4
33	Large sliding regulation in van der waals layered nonlinear optical ternary chalcogenides. Npj Computational Materials, 2023, 9, .	9.1	0
34	Quadruple-Bidentate Nitrate-Ligated A ₂ Hg(NO ₃) ₄ (A=K, Rb): Strong Second-Harmonic Generation and Sufficient Birefringence. Angewandte Chemie - International Edition, 2023, 62, .	14.8	18
35	Quadruple-Bidentate Nitrate-Ligated A ₂ Hg(NO ₃) ₄ (A=K, Rb): Strong Second-Harmonic Generation and Sufficient Birefringence. Angewandte Chemie, 2023, 135, .	2.1	1
36	Evolution of Structures and Optical Properties in a Series of Infrared Nonlinear Optical Crystals Li _x Ag _{1-x} InSe ₂ (0 ≤ x ≤ 1). Inorganic Chemistry, 2023, 62, 15936-15942.	4.2	5

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37	Giant Mid-Infrared Second-Harmonic Generation Response in a Densely Stacked Van Der Waals Transition-Metal Oxychloride. <i>Angewandte Chemie</i> , 2023, 135, .	2.1	3
38	Giant Mid-Infrared Second-Harmonic Generation Response in a Densely Stacked Van Der Waals Transition-Metal Oxychloride. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	14.8	12
39	Ultrashort Phase-Matching Wavelength and Strong Second-Harmonic Generation in Deep-UV-Transparent Oxyfluorides by Covalency Reduction. <i>Angewandte Chemie</i> , 2023, 135, .	2.1	0
40	Ultrashort Phase-Matching Wavelength and Strong Second-Harmonic Generation in Deep-UV-Transparent Oxyfluorides by Covalency Reduction. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	14.8	10
41	Photoluminescence and Nonlinear Optical Properties of Two Terpyridine-Based Hybrid Zn/Cd Halides. <i>Inorganic Chemistry</i> , 2023, 62, 21451-21460.	4.2	3
42	Nonpolar Na ₁₀ Cd(NO ₃) ₄ (SO ₃) ₄ Exhibits a Large Second-Harmonic Generation. <i>CCS Chemistry</i> , 2022, 4, 526-531.	8.6	45
43	Pnictides: An emerging class of infrared nonlinear optical material candidates. <i>Journal of Alloys and Compounds</i> , 2022, 901, 163384.	5.7	21
44	SrZnSnSe ₄ : A quaternary selenide with large second harmonic generation and birefringence. <i>Journal of Alloys and Compounds</i> , 2022, 904, 163944.	5.7	25
45	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. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3300-3306.	5.6	18
46	Two non-centrosymmetric scandium borate nonlinear optical crystals containing the B ₅ O ₁₀ anion group. <i>Journal of Alloys and Compounds</i> , 2022, 902, 163832.	5.7	13
47	Driving Nonlinear Optical Activity with Dipolar 2-Aminopyrimidinium Cations in (C ₄ H ₆ N ₃) ⁺ (H ₂ PO ₃) ⁻ . <i>Chemistry of Materials</i> , 2022, 34, 1976-1984.	7.1	50
48	Sliding Modulation in Nonlinear Optical Effect in Two-Dimensional van der Waals Cu ₂ MoS ₄ . <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9535-9543.	8.3	5
49	Centrosymmetric Rb[Te ₂ O ₄ (OH) ₅] and noncentrosymmetric K ₂ [Te ₃ O ₈ (OH) ₄]: metal tellurates with corner and edge-sharing (Te ₄ O ₁₈) ¹²⁻ anion groups. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2628-2636.	6.0	8
50	The synthesis and structure-property relation analysis of metal chalcogenide crystals Cs ₂ InPS ₄ X ₂ (X = Cl, Br) with mixed anions. <i>Dalton Transactions</i> , 2022, 51, 4728-4733.	3.4	2
51	Uncovering a Vital Band Gap Mechanism of Pnictides. <i>Advanced Science</i> , 2022, 9, e2105787.	12.4	20
52	Ultrawide Bandgap and Outstanding Second-Harmonic Generation Response by a Fluorine-Enrichment Strategy at a Transition-Metal Oxyfluoride Nonlinear Optical Material. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	14.8	36
53	Ultrawide Bandgap and Outstanding Second-Harmonic Generation Response by a Fluorine-Enrichment Strategy at a Transition-Metal Oxyfluoride Nonlinear Optical Material. <i>Angewandte Chemie</i> , 2022, 134, .	2.1	5
54	A Lanthanum Ammonium Sulfate Double Salt with a Strong SHG Response and Wide Deep-UV Transparency. <i>Angewandte Chemie</i> , 2022, 134, .	2.1	4

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55	A Lanthanum Ammonium Sulfate Double Salt with a Strong SHG Response and Wide Deep-UV Transparency. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	14.8	51
56	Two-Dimensional Negative Thermal Expansion in a Crystal of LiBO_2 . <i>Chemistry of Materials</i> , 2022, 34, 4195-4201.	7.1	12
57	$\text{Ba}_6\text{In}_2\text{Ge}_2\text{Te}_{15}$: a THz birefringent material with an intriguing quasi- $[\text{Te}_5]^{4-}$ chain possessing large optical anisotropy and an ultrawide transmission range. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3421-3427.	6.0	4
58	Edge-Assisted Epitaxy of 2D TaSe_2 - MoSe_2 Metal-Semiconductor Heterostructures and Application to Schottky Diodes. <i>Advanced Functional Materials</i> , 2022, 32, .	16.5	11
59	Small Organic Molecular-Based Hybrid Halides with High Photoluminescence Quenching Temperature. <i>Inorganic Chemistry</i> , 2022, 61, 7560-7567.	4.2	14
60	Transformation of Thermal Expansion from Large Volume Contraction to Nonlinear Strong Negative Thermal Expansion in PbTiO_3 - $\text{Bi}(\text{Co}_x\text{Fe}_{1-x})\text{O}_3$ Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23610-23616.	8.3	7
61	Realization of Enlarged Birefringence from $\text{BaCdBe}_2(\text{BO}_3)_2\text{F}_2$ to $\text{NaMgBe}_2(\text{BO}_3)_2\text{F}$ via the Cation Size Effect as a Potential Deep-Ultraviolet Birefringent Material. <i>Inorganic Chemistry</i> , 2022, 61, 7624-7630.	4.2	11
62	Innenteilbild: Ultrawide Bandgap and Outstanding Second-Harmonic Generation Response by a Fluorine-Enrichment Strategy at a Transition-Metal Oxyfluoride Nonlinear Optical Material (<i>Angew.</i>)		
63	Mid-Infrared Nonlinear Optical Halides with Diamond-like Structures: A Theoretical and Experimental Study. <i>Chemistry of Materials</i> , 2022, 34, 5301-5310.	7.1	15
64	Dangling Octahedra Enable Edge States in 2D Lead Halide Perovskites. <i>Advanced Materials</i> , 2022, 34, e2201666.	24.3	25
65	Integration of negative, zero and positive linear thermal expansion makes borate optical crystals light transmission temperature-independent. <i>Materials Horizons</i> , 2022, 9, 2207-2214.	12.8	3
66	AgGaGeSe_4 : An Infrared Nonlinear Quaternary Selenide with Good Performance. <i>Symmetry</i> , 2022, 14, 1426.	2.3	2
67	Deep-ultraviolet nonlinear optical crystals: concept development and materials discovery. <i>Light: Science and Applications</i> , 2022, 11, .	16.2	74
68	Additive-Triggered Polar Polymorph Formation: $\text{I}_2\text{Sc}(\text{IO}_3)_3$, a Promising Next-Generation Mid-Infrared Nonlinear Optical Material. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	14.8	20
69	Second-Harmonic-Generation Effect and Giant Optical Birefringence in the Weyl Material CaAgAs . <i>Inorganic Chemistry</i> , 2022, 61, 13276-13280.	4.2	1
70	Wide bandgaps and strong SHG responses of hetero-oxyfluorides by dual-fluorination-directed bandgap engineering. <i>Chemical Science</i> , 2022, 13, 10260-10266.	7.8	16
71	sp^2 to sp^3 Hybridization Transformation in Ionic Crystals under Unprecedentedly Low Pressure. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	14.8	4
72	sp^2 to sp^3 Hybridization Transformation in Ionic Crystals under Unprecedentedly Low Pressure. <i>Angewandte Chemie</i> , 2022, 134, .	2.1	1

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73	PbBi ₂ (SeO ₃) ₂ F and Pb ₂ Bi ₂ (SeO ₃) ₂ Cl ₃ : Coexistence of Three Kinds of Stereochemically Active Lone-Pair Cations Exhibiting Excellent Nonlinear Optical Properties. <i>Inorganic Chemistry</i> , 2022, 61, 15368-15376.	4.2	29
74	PbBe ₂ B ₂ O ₆ : an ultraviolet nonlinear-optical crystal with unprecedented π - π interacting BeBO ₅ group. <i>Chemical Communications</i> , 2022, 58, 12471-12474.	4.2	8
75	Isorecticular Design of KTiOPO ₄ -Like Deep-Ultraviolet Transparent Materials Exhibiting Strong Second-Harmonic Generation. <i>Journal of the American Chemical Society</i> , 2022, 144, 20394-20399.	14.6	34
76	Li _x Ag _{1-x} GaSe ₂ : Interplay Between Lithium and Silver in Mid-Infrared Nonlinear Optical Chalcogenides. <i>Advanced Optical Materials</i> , 2022, 10, .	7.9	22
77	RE(OH) ₂ NO ₃ (RE = Tb, Dy, Ho, and Er): Synthesis and Nonlinear Optical Properties of Water-Resistant Lanthanide Hydroxide Nitrates. <i>Inorganic Chemistry</i> , 2022, 61, 18162-18169.	4.2	7
78	K ₃ C ₆ N ₇ O ₃ ·2H ₂ O: A Multifunctional Nonlinear Optical Cyamelurate Crystal with Colossal π -Conjugated Orbitals. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 53074-53080.	8.3	19
79	Zn ₃ GaB ₆ O ₁₂ As and Zn ₄ P ₆ N ₁₂ S: Isotropic Zero Thermal Expansion Materials Based on the α -Cage-Restricting Model. <i>Chemistry of Materials</i> , 2022, 34, 9915-9922.	7.1	4
80	Giant Optical Anisotropy in the UV-Transparent 2D Nonlinear Optical Material Sc(IO ₃) ₂ (NO ₃). <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3464-3468.	14.8	146
81	Giant Optical Anisotropy in the UV-Transparent 2D Nonlinear Optical Material Sc(IO ₃) ₂ (NO ₃). <i>Angewandte Chemie</i> , 2021, 133, 3506-3510.	2.1	48
82	Negative area compressibility in silver oxalate. <i>Journal of Materials Science</i> , 2021, 56, 269-277.	3.7	11
83	From AgGaS ₂ to AgHgPS ₄ : vacancy defects and highly distorted HgS ₄ tetrahedra double-induced remarkable second-harmonic generation response. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1062-1068.	5.6	50
84	A New Nonlinear Optical Selenide Crystal AgLiGa ₂ Se ₄ with Good Comprehensive Performance in Mid-Infrared Region. <i>Advanced Optical Materials</i> , 2021, 9, 2001856.	7.9	31
85	Nonlinear Optical Oxythiophosphate Approaching the Good Balance with Wide Ultraviolet Transparency, Strong Second Harmonic Effect, and Large Birefringence. <i>Angewandte Chemie</i> , 2021, 133, 6456-6460.	2.1	12
86	Nonlinear Optical Oxythiophosphate Approaching the Good Balance with Wide Ultraviolet Transparency, Strong Second Harmonic Effect, and Large Birefringence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6386-6390.	14.8	61
87	Nonlinear optical effects in two mercury cyanamide/guanidinium chlorides Hg ₃ (NCN) ₂ Cl ₂ and Hg ₂ (C(NH ₂) ₃)Cl ₅ . <i>Journal of Materials Chemistry C</i> , 2021, 9, 967-974.	5.6	4
88	Negative thermal expansion in one-dimension of a new double sulfate AgHo(SO ₄) ₂ with isolated SO ₄ tetrahedra. <i>Journal of Materials Science and Technology</i> , 2021, 76, 111-121.	10.8	35
89	<i>In situ</i> hydrothermal synthesis of polar second-order nonlinear optical selenate Na ₅ (SeO ₄)(HSeO ₄) ₃ (H ₂ O) ₂ . <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3141-3148.	6.0	12
90	The crystal growth and properties of novel magnetic double molybdate RbFe ₅ (MoO ₄) ₇ with mixed Fe ³⁺ /Fe ²⁺ states and 1D negative thermal expansion. <i>CrystEngComm</i> , 2021, 23, 3297-3307.	2.4	9

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91	NaGa ₃ O ₉ F: a new alkali metal gallium iodate combined with IO ₃ [•] and IO ₃ F ^{2•} units. Dalton Transactions, 2021, 50, 11562-11567.	3.4	13
92	First chiral fluorinated lead vanadate selenite Pb ₂ (V ₂ O ₄ F)(VO ₂)(SeO ₃) ₃ with five asymmetric motifs and large optical properties. Dalton Transactions, 2021, 50, 7238-7245.	3.4	15
93	Facile syntheses of silver thioantimonates exhibiting second-harmonic generation responses and large birefringence. Dalton Transactions, 2021, 50, 3568-3576.	3.4	8
94	AgBi(SO ₄)(IO ₃) ₂ : aliovalent substitution induces structure dimensional upgrade and second harmonic generation enhancement. Chemical Communications, 2021, 57, 3712-3715.	4.2	22
95	BaZnBe ₂ (BO ₃) ₂ F ₂ : a novel zinc-beryllium borate with SBBO-type structure overcoming the polymorphism problem. Dalton Transactions, 2021, 50, 2138-2142.	3.4	9
96	Ba ₄ Ca(B ₂ O ₅) ₂ F ₂ : π -conjugation of B ₂ O ₅ in the planar pentagonal layer achieving large second harmonic generation of <i>i</i> -pyroborate. Chemical Science, 2021, 12, 13897-13901.	7.8	22
97	Na ₃ Bi(IO ₃) ₆ : An Alkali-Metal Bismuth Iodate with Intriguing One-Dimensional [BiI ₆ O ₁₈] Chains and Pressure-Induced Structural Transition. Inorganic Chemistry, 2021, 60, 2893-2898.	4.2	10
98	Role of Metal-Chloride Anions in Photoluminescence Regulations for Hybrid Metal Halides. Journal of Physical Chemistry Letters, 2021, 12, 1918-1925.	4.9	31
99	Large Second-Harmonic Response and Giant Birefringence of CeF ₂ (SO ₄) Induced by Highly Polarizable Polyhedra. Journal of the American Chemical Society, 2021, 143, 4138-4142.	14.6	157
100	Regulating Guanidinium-Based Hybrid Materials for Ultraviolet Nonlinear Optical Applications by Hybrid Strength and Hybrid Pattern. Inorganic Chemistry, 2021, 60, 3834-3842.	4.2	16
101	AZn(PO ₃) ₃ (A = K, Rb): Deep-Ultraviolet Nonlinear Optical Phosphates Derived from Synergy of a Unique [ZnO ₆] Octahedron and a [PO ₃] [•] Chain. Crystal Growth and Design, 2021, 21, 2445-2452.	3.2	15
102	Tunable White Light Emission in a Zero-Dimensional Organic-Inorganic Metal Halide Hybrid with Ultra-High Color Rendering Index. Advanced Optical Materials, 2021, 9, 2002246.	7.9	47
103	A comprehensive survey on nonlinear optical phosphates: Role of multicoordinate groups. Coordination Chemistry Reviews, 2021, 431, 213692.	19.6	73
104	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.	4.2	14
105	A Deep-UV Nonlinear Optical Borosulfate with Incommensurate Modulations. Angewandte Chemie, 2021, 133, 11558-11564.	2.1	11
106	Molecular Engineering toward an Enlarged Optical Band Gap in a Bismuth Sulfate via Homovalent Cation Substitution. Inorganic Chemistry, 2021, 60, 5851-5859.	4.2	14
107	Cd ₃ (IO ₃)(IO ₄)F ₂ ·0.1CdO: A Nonlinear-Optical Crystal with the Introduction of Fluoride into Iodate Containing Both [IO ₃] [•] and [IO ₄] ^{3•} Groups. Inorganic Chemistry, 2021, 60, 6040-6046.	4.2	11
108	A Deep-UV Nonlinear Optical Borosulfate with Incommensurate Modulations. Angewandte Chemie - International Edition, 2021, 60, 11457-11463.	14.8	39

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109	Alloy Engineering of a Polar (Si,Ge) ₂ N ₂ O System for Controllable Second Harmonic Performance. <i>Inorganic Chemistry</i> , 2021, 60, 7381-7388.	4.2	5
110	From Centrosymmetry to Noncentrosymmetry: Tailoring the Structural Arrangements of Carbonates with Strong Nonlinear Optical Response through Partial Anion Substitution. <i>Advanced Optical Materials</i> , 2021, 9, 2100594.	7.9	21
111	Excellent performance of a cryogenic Nd:YAlO ₃ laser with low wavefront distortion based on zero thermal expansion. <i>Optics Letters</i> , 2021, 46, 2425.	3.3	8
112	UV Solar-Blind-Region Phase-Matchable Optical Nonlinearity and Anisotropy in a Conjugated Cation-Containing Phosphate. <i>Angewandte Chemie</i> , 2021, 133, 14932-14936.	2.1	21
113	Second harmonic generation of $\text{Mo}_4\text{N}_4\text{S}_4$ layers. <i>Physical Review B</i> , 2021, 103, .	3.3	21
114	AXHg ₃ P ₂ S ₈ (A = Rb, Cs; X = Cl, Br): New Excellent Infrared Nonlinear Optical Materials with Mixed Anion Chalcohalide Groups of Trigonal Planar [Hg ₂ X] ³⁺ and Tetrahedral [Hg ₃ X] ⁵⁺ . <i>Advanced Optical Materials</i> , 2021, 9, 2100563.	7.9	49
115	LiZn(OH)CO ₃ : A Deep-Ultraviolet Nonlinear Optical Hydroxycarbonate Designed from a Diamond-Like Structure. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13574-13578.	14.8	102
116	Inntentiteld: UV Solar-Blind-Region Phase-Matchable Optical Nonlinearity and Anisotropy in a Conjugated Cation-Containing Phosphate (<i>Angew. Chem.</i> 27/2021). <i>Angewandte Chemie</i> , 2021, 133, 14842-14842.	2.1	0
117	UV Solar-Blind-Region Phase-Matchable Optical Nonlinearity and Anisotropy in a Conjugated Cation-Containing Phosphate. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14806-14810.	14.8	117
118	LiZn(OH)CO ₃ : A Deep-Ultraviolet Nonlinear Optical Hydroxycarbonate Designed from a Diamond-Like Structure. <i>Angewandte Chemie</i> , 2021, 133, 13686-13690.	2.1	9
119	CsZrF ₄ (IO ₃): The First Polar Zirconium Iodate with <i>cis</i> -[Zr ₂ F ₆] Polyhedra Inducing Optimized Balance of Large Band Gap and Second Harmonic Generation. <i>Chemistry of Materials</i> , 2021, 33, 5555-5562.	7.1	35
120	<i>cis</i> -A ₂ MoO ₂ F ₃ (IO ₂ F ₂) (A = Rb, Tl) ETQq0 0 0 rgBT /Overloc <i>Chemistry of Materials</i> , 2021, 33, 5700-5708.	7.1	33
121	Cs ₂ ZnSn ₃ S ₈ : A Sulfide Compound Realizes a Large Birefringence by Modulating the Dimensional Structure. <i>Inorganic Chemistry</i> , 2021, 60, 9248-9253.	4.2	19
122	Deep-Ultraviolet Nonlinear-Optical van-der-Waals Beryllium Borates**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16680-16686.	14.8	22
123	Deep-Ultraviolet Nonlinear-Optical van-der-Waals Beryllium Borates**. <i>Angewandte Chemie</i> , 2021, 133, 16816-16822.	2.1	4
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129	Non- π -Conjugated Deep-Ultraviolet Nonlinear Optical Crystal $\text{K}_2\text{Zn}_3(\text{SO}_4)_2(\text{HSO}_4)_2\text{F}_4$. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8280-8284.	4.9	21
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133	Synthesis and Characterizations of Two Tellurides Ba_2Te_4 and $\text{Ba}_5\text{Ga}_2\text{Ge}_3\text{Te}_{12}$ with Flexible Chain Structure. <i>Inorganic Chemistry</i> , 2021, 60, 14793-14802.	4.2	12
134	Novel van der Waals Deep-UV Nonlinear Optical Materials. <i>Chemistry - A European Journal</i> , 2021, 27, 17269-17272.	3.9	2
135	A Congruent-Melting Mid-Infrared Nonlinear Optical Vanadate Exhibiting Strong Second-Harmonic Generation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22447-22453.	14.8	42
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137	From $\text{Ce}(\text{IO}_3)_4$ to $\text{CeF}_2(\text{IO}_3)_2$: fluorinated homovalent substitution simultaneously enhances SHG response and bandgap for mid-infrared nonlinear optics. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8987-8993.	5.6	11
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166	EuHgGeSe ₄ and EuHgSnS ₄ : Two Quaternary Eu-Based Infrared Nonlinear Optical Materials with Strong Second-Harmonic-Generation Responses. Inorganic Chemistry, 2020, 59, 18452-18460.	4.2	29
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170	Optimal arrangement of π -conjugated anionic groups in hydro-isocyanurates leads to large optical anisotropy and second-harmonic generation effect. Inorganic Chemistry Frontiers, 2020, 7, 3674-3686.	6.0	27
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177	Chemical Communications, 2020, 56, 12534-12537. xmllns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:mrow></mml:math> with a deep-ultraviolet band gap and a strong and robust second harmonic generation. Physical Review B,	3.3	25
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183	Large nonlinear optical effect in tungsten bronze structures via Li/Na cross-substitutions. <i>Chemical Communications</i> , 2020, 56, 8384-8387.	4.2	3
184	Crystal growth, structural characteristics and electronic structure of $\text{Ba}_{1-x}\text{Pb}_x\text{Fe}_{12}\text{O}_{19}$ ($x=0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0$). <i>Journal of Materials Chemistry C</i> , 2020, 8, 5020-5024.	5.7	23
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189	An Exceptional Peroxide Birefringent Material Resulting from $\text{d}\pi\text{-}\pi$ Interactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9414-9417.	14.8	69
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191	Two New Ferroborates with Three-Dimensional Framework and Wide Transmittance Window. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1676-1682.	2.2	2
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196	Strong Second Harmonic Generation in a Tungsten Bronze Oxide by Enhancing Local Structural Distortion. <i>Journal of the American Chemical Society</i> , 2020, 142, 7480-7486.	14.6	37
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207	An Unprecedented Antimony(III) Borate with Strong Linear and Nonlinear Optical Responses. <i>Angewandte Chemie</i> , 2020, 132, 7867-7870.	2.1	35
208	Inorganic planar π -conjugated groups in nonlinear optical crystals: review and outlook. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 839-852.	6.0	102
209	Nonlayered CdSe Flakes Homojunctions. <i>Advanced Functional Materials</i> , 2020, 30, 1908902.	16.5	29
210	Lead-Free Tin(IV)-Based Organic-Inorganic Metal Halide Hybrids with Excellent Stability and Blue-Broadband Emission. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1808-1813.	4.9	95
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222	Rational design of a new chalcogenide with good infrared nonlinear optical performance: SrZnSnS ₄ . <i>Journal of Materials Chemistry C</i> , 2019, 7, 8556-8561.	5.6	42
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