

Xingxing Jiang

List of Publications by Year in descending order

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124
papers

4,721
citations

109321

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114465

63
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all docs

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docs citations

126
times ranked

2669
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-Soaking Induced Optical Tuning in Rare Earth-Doped All-Inorganic Perovskite. <i>Advanced Functional Materials</i> , 2022, 32, 2107086.	14.9	10
2	Predicted stable high-pressure phases of copper-nitrogen compounds. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 025401.	1.8	2
3	Coordination units of Mn ²⁺ modulation toward tunable emission in zero-dimensional bromides for white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2095-2102.	5.5	35
4	Nuclear Quantum Effects on the Charge-Density Wave Transition in NbX ₂ (X = S, Se). <i>Nano Letters</i> , 2022, 22, 1858-1865.	9.1	7
5	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, .	13.8	28
6	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, .	2.0	4
7	A Lanthanum Ammonium Sulfate Double Salt with a Strong SHG Response and Wide Deep-UV Transparency. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3
8	A Lanthanum Ammonium Sulfate Double Salt with a Strong SHG Response and Wide Deep-UV Transparency. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	38
9	Two-Dimensional Negative Thermal Expansion in a Crystal of LiBO ₂ . <i>Chemistry of Materials</i> , 2022, 34, 4195-4201.	6.7	7
10	Edge-Assisted Epitaxy of 2D TaSe ₂ /MoSe ₂ Metal-Semiconductor Heterostructures and Application to Schottky Diodes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	10
11	Small Organic Molecular-Based Hybrid Halides with High Photoluminescence Quenching Temperature. <i>Inorganic Chemistry</i> , 2022, 61, 7560-7567.	4.0	10
12	Activating the Electrocatalysis of MoS ₂ Basal Plane for Hydrogen Evolution via Atomic Defect Configurations. <i>Small</i> , 2022, 18, .	10.0	26
13	Transformation of Thermal Expansion from Large Volume Contraction to Nonlinear Strong Negative Thermal Expansion in PbTiO ₃ -Bi(Co _{1-x} Fe _x)O ₃ Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23610-23616.	8.0	5
14	Realization of Enlarged Birefringence from BaCdBe ₂ (BO ₃) ₂ F ₂ to NaMgBe ₂ (BO ₃) ₂ F via the Cation Size Effect as a Potential Deep-Ultraviolet Birefringent Material. <i>Inorganic Chemistry</i> , 2022, 61, 7624-7630.	4.0	8
15	Innentitelbild: Ultrawide Bandgap and Outstanding Second-Harmonic Generation Response by a Fluorine-Enrichment Strategy at a Transition-Metal Oxyfluoride Nonlinear Optical Material (Angew.) Tj ETQq1 1 21784314orgBT /Ove		
16	Dangling Octahedra Enable Edge States in 2D Lead Halide Perovskites. <i>Advanced Materials</i> , 2022, 34, e2201666.	21.0	22
17	A first-principles study of exciton self-trapping and electric polarization in one-dimensional organic lead halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 17323-17328.	2.8	9
18	Additive-Triggered Polar Polymorph Formation: Î ²⁺ Sc(IO ₃) ₃ , a Promising Next-Generation Mid-Infrared Nonlinear Optical Material. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	18

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19	Interface Effect of Ru-MoS ₂ Nanoflowers on Lignin Substrate for Enhanced Hydrogen Evolution Activity. Energy and Environmental Materials, 2021, 4, 117-125.	12.8	43
20	Giant Optical Anisotropy in the UV-Transparent 2D Nonlinear Optical Material Sc(IO ₃) ₂ (NO ₃). Angewandte Chemie - International Edition, 2021, 60, 3464-3468.	13.8	124
21	Giant Optical Anisotropy in the UV-Transparent 2D Nonlinear Optical Material Sc(IO ₃) ₂ (NO ₃). Angewandte Chemie, 2021, 133, 3506-3510.	2.0	46
22	Negative area compressibility in silver oxalate. Journal of Materials Science, 2021, 56, 269-277.	3.7	11
23	<i>In situ</i> hydrothermal synthesis of polar second-order nonlinear optical selenate Na ₅ (SeO ₄)(HSeO ₄) ₃ (H ₂ O) ₂ . Inorganic Chemistry Frontiers, 2021, 8, 3141-3148.	6.0	11
24	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.	3.3	8
25	Facile syntheses of silver thioantimonates exhibiting second-harmonic generation responses and large birefringence. Dalton Transactions, 2021, 50, 3568-3576.	3.3	7
26	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.	13.7	147
27	Molecular Engineering toward an Enlarged Optical Band Gap in a Bismuth Sulfate via Homovalent Cation Substitution. Inorganic Chemistry, 2021, 60, 5851-5859.	4.0	12
28	UV Solar-Blind-Region Phase-Matchable Optical Nonlinearity and Anisotropy in a Conjugated Cation-Containing Phosphate. Angewandte Chemie, 2021, 133, 14932-14936.	2.0	19
29	Tuning the Electrocatalytic Properties of Black and Gray Arsenene by Introducing Heteroatoms. ACS Omega, 2021, 6, 13124-13133.	3.5	7
30	Innentitelbild: UV Solar-Blind-Region Phase-Matchable Optical Nonlinearity and Anisotropy in a Conjugated Cation-Containing Phosphate (Angew. Chem. 27/2021). Angewandte Chemie, 2021, 133, 14842-14842.	2.0	0
31	UV Solar-Blind-Region Phase-Matchable Optical Nonlinearity and Anisotropy in a Conjugated Cation-Containing Phosphate. Angewandte Chemie - International Edition, 2021, 60, 14806-14810.	13.8	99
32	CsZrF ₄ (IO ₃): The First Polar Zirconium Iodate with <i>cis</i> -[ZrO ₂ F ₆] Polyhedra Inducing Optimized Balance of Large Band Gap and Second Harmonic Generation. Chemistry of Materials, 2021, 33, 5555-5562.	6.7	29
33	<i>A</i> ₂ MoO ₂ F ₃ (IO ₂ F ₂) (<i>A</i> = Rb, Tl) ETQq1 1 0.784314 rg Chemistry of Materials, 2021, 33, 5700-5708.	6.7	30
34	Giant Second-Harmonic Generation Response and Large Band Gap in the Partially Fluorinated Mid-Infrared Oxide RbTeMo ₂ O ₈ F. Journal of the American Chemical Society, 2021, 143, 12455-12459.	13.7	91
35	A Congruent-Melting Mid-Infrared Nonlinear Optical Vanadate Exhibiting Strong Second-Harmonic Generation. Angewandte Chemie, 2021, 133, 22621-22627.	2.0	11
36	A Congruent-Melting Mid-Infrared Nonlinear Optical Vanadate Exhibiting Strong Second-Harmonic Generation. Angewandte Chemie - International Edition, 2021, 60, 22447-22453.	13.8	37

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37	Rb ₃ In(SO ₄) ₃ : a defluorinated mixed main-group metal sulfate for ultraviolet transparent nonlinear optical materials with a large optical band gap. Journal of Materials Chemistry C, 2021, 9, 5124-5131.	5.5	16
38	Strong SHG Responses in a Beryllium-Free Deep-UV-Transparent Hydroxyborate via Covalent Bond Modification. Angewandte Chemie - International Edition, 2021, 60, 27151-27157.	13.8	50
39	Hybrid Metal-Halide Infrared Nonlinear Optical Crystals of (TMEDA)M ₅ (M = Sb, Bi) with High Stability. Advanced Optical Materials, 2021, 9, 2101333.	7.3	20
40	Toward a General Understanding of Exciton Self-Trapping in Metal Halide Perovskites. Journal of Physical Chemistry Letters, 2021, 12, 10472-10478.	4.6	38
41	Strong SHG Responses in a Beryllium-Free Deep-UV-Transparent Hydroxyborate via Covalent Bond Modification. Angewandte Chemie, 2021, 133, 27357.	2.0	9
42	Ca ₃ (TeO ₃) ₂ (MO ₄) (M = Mo, W): Mid-Infrared Nonlinear Optical Tellurates with Ultrawide Transparency Ranges and Superhigh Laser-Induced Damage Thresholds. Inorganic Chemistry, 2021, 60, 18512-18520.	4.0	16
43	From CeF ₂ (SO ₄) ₂ ·H ₂ O to Ce(IO ₃) ₂ (SO ₄): Defluorinated Homovalent Substitution for Strong Second-Harmonic-Generation Effect and Sufficient Birefringence. Chemistry of Materials, 2021, 33, 9317-9325.	6.7	23
44	A ₃ A ²⁺ Zn ₆ Te ₄ O ₂₄ (A = Na, A ²⁺ = Rare Earth) Garnets: A-Site Ordered Noncentrosymmetric Structure, Photoluminescence, and Na-Ion Conductivity. Inorganic Chemistry, 2021, 60, 18168-18177.	4.0	5
45	$\text{B}_{6}\text{Zn}_{4}$		

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55	Large nonlinear optical effect in tungsten bronze structures via Li/Na cross-substitutions. <i>Chemical Communications</i> , 2020, 56, 8384-8387.	4.1	3
56	AGa ₃ F ₆ (SeO ₃) ₂ (A = Rb, Cs): A New Type of Phase-Matchable Hexagonal Tungsten Oxide Material with Strong Second-Harmonic Generation Responses. <i>Chemistry of Materials</i> , 2020, 32, 6906-6915.	6.7	46
57	The coexistence of ferroelectricity and topological phase transition in monolayer In ₂ Se ₃ under strain engineering. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 105501.	1.8	24
58	Synthesis, Crystal Structure, and Optical Properties of the First Alkali Metal Rare-Earth Iodate Fluoride: Li ₂ Ce(IO ₃) ₄ F ₂ . <i>Crystal Growth and Design</i> , 2020, 20, 2135-2140.	3.0	15
59	Ab initio study of the miscibility for solid hydrogen-helium mixtures at high pressure. <i>Journal of Chemical Physics</i> , 2020, 152, 074701.	3.0	3
60	A ₂ SnS ₅ : A Structural Incommensurate Modulation Exhibiting Strong Second-Harmonic Generation and a High Laser-Induced Damage Threshold (A=Ba, Sr). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11861-11865.	13.8	67
61	A ₂ SnS ₅ : A Structural Incommensurate Modulation Exhibiting Strong Second-Harmonic Generation and a High Laser-Induced Damage Threshold (A=Ba, Sr). <i>Angewandte Chemie</i> , 2020, 132, 11959-11963.	2.0	17
62	Pronounced Negative Thermal Expansion in Lead-Free BiCoO ₃ -Based Ferroelectrics Triggered by the Stabilized Perovskite Structure. <i>Chemistry of Materials</i> , 2019, 31, 6187-6192.	6.7	14
63	Heavy Mn ²⁺ Doped MgAl ₂ O ₄ Phosphor for High-Efficient Near-Infrared Light-Emitting Diode and the Night-Vision Application. <i>Advanced Optical Materials</i> , 2019, 7, 1901105.	7.3	167
64	Lead-Free Hybrid Metal Halides with a Green-Emissive [MnBr ₄] Unit as a Selective Turn-On Fluorescent Sensor for Acetone. <i>Inorganic Chemistry</i> , 2019, 58, 13464-13470.	4.0	112
65	Evidence for Site-Specific Reversible Hydrogen Adsorption on Graphene by Sum-Frequency Generation Spectroscopy and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25883-25889.	3.1	6
66	Regulating Second-Harmonic Generation by van der Waals Interactions in Two-dimensional Lead Halide Perovskite Nanosheets. <i>Journal of the American Chemical Society</i> , 2019, 141, 9134-9139.	13.7	75
67	Rubidium Cerium (IV) Iodates with High UV-Light-Driven Photocatalytic Efficiency. <i>ChemistrySelect</i> , 2019, 4, 7076-7081.	1.5	2
68	Optically Modulated Ultra-Broad-Band Warm White Emission in Mn ²⁺ -Doped (C ₆ H ₁₈ N ₂ O ₂)PbBr ₄ Hybrid Metal Halide Phosphor. <i>Chemistry of Materials</i> , 2019, 31, 5788-5795.	6.7	131
69	Tuning the Catalytic Property of Phosphorene for Oxygen Evolution and Reduction Reactions by Changing Oxidation Degree. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3440-3446.	4.6	43
70	Enhanced tetragonality and large negative thermal expansion in a new Pb/Bi-based perovskite ferroelectric of (1 Å) ⁻¹ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (x)PbTiO ₃ Bi(Zn _{1/2} V _{1/2} ...	6.0	8
71	Near-zero thermal expansion coordinated with geometric flexibility and Ĥ-Ĥ interaction in anisotropic [Zn ₈ (SiO ₄)(m-BDC) ₆] _n . <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1675-1679.	6.0	5
72	Linear Zero Thermal Expansion in a Deep-Ultraviolet Transparent Crystal of BPO ₄ with Cristobalite-like Structure. <i>Crystal Growth and Design</i> , 2019, 19, 3109-3112.	3.0	4

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73	M ₂ (SeO ₃)F ₂ (M = Zn, Cd): understanding the structure directing effect of [SeO ₃] ²⁻ groups on constructing ordered oxyfluorides. <i>CrystEngComm</i> , 2019, 21, 2485-2489.	2.6	9
74	Growth, Structure, and Optical Properties of Nonlinear LiGa _{0.55} In _{0.45} Te ₂ Single Crystals. <i>Crystal Growth and Design</i> , 2019, 19, 1805-1814.	3.0	4
75	K ₅ (W ₃ O ₉)F ₄ (IO ₃): An Efficient Mid-Infrared Nonlinear Optical Compound with High Laser Damage Threshold. <i>Chemistry of Materials</i> , 2019, 31, 10100-10108.	6.7	92
76	Growth, Crystal Structures, and Characteristics of Li ₅ ASrMB ₁₂ O ₂₄ (A = Zn, Mg; M = Al, Ga) with [MB ₁₂ O ₂₄] Frameworks. <i>Inorganic Chemistry</i> , 2019, 58, 1016-1019.	4.0	10
77	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.	13.7	117
78	Deep-Ultraviolet Nonlinear Optical Crystal Cs ₂ Al ₂ (B ₃ O ₆) ₂ O: A Benign Member of the Sr ₂ Be ₂ (BO ₃) ₂ O Family with [Al ₂ (B ₃ O ₆) ₂ O] ²⁻ Double Layers. <i>Chemistry - A European Journal</i> , 2018, 24, 7856-7860.	3.3	37
79	Pb ₃ (SeO ₃)Br ₄ : a new nonlinear optical material with enhanced SHG response designed via an ion-substitution strategy. <i>Dalton Transactions</i> , 2018, 47, 1911-1917.	3.3	29
80	Large spontaneous polarization in polar perovskites of PbTiO ₃ ∩Bi(Zn _{1/2} Ti _{1/2})O ₃ . <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1277-1281.	6.0	15
81	Influence of A-site cations on germanium iodates as mid-IR nonlinear optical materials: A ₂ Ge(IO ₃) ₆ (A = Li, K, Rb and Cs) and BaGe(IO ₃) ₆ ·H ₂ O. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4698-4705.	5.5	30
82	Negative thermal expansion and electronic structure variation of chalcopyrite type LiGaTe ₂ . <i>RSC Advances</i> , 2018, 8, 9946-9955.	3.6	35
83	K ₂ MnGe ₃ S ₈ : a new multifunctional semiconductor featuring [MnGe ₃ S ₈] ²⁻ layers and demonstrating interesting nonlinear optical response and antiferromagnetic properties. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10042-10049.	5.5	22
84	Zero Linear Compressibility in Nondense Borates with a Lu ₂ Ban Stool-Like Structure. <i>Advanced Materials</i> , 2018, 30, e1801313.	21.0	22
85	Two-Dimensional-Layered Perovskite ALaTa ₂ O ₇ :Bi ³⁺ (A = K and Na) Phosphors with Versatile Structures and Tunable Photoluminescence. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24648-24655.	8.0	91
86	Structure and Optical Properties of the Li ₂ In ₂ GeSe ₆ Crystal. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17413-17422.	3.1	11
87	The Anisotropic Thermal Expansion of Non-linear Optical Crystal BaAlBO ₃ F ₂ Below Room Temperature. <i>Frontiers in Chemistry</i> , 2018, 6, 252.	3.6	1
88	Zn ₃ P ₂ S ₈ : A Promising Infrared Nonlinear-Optical Material with Excellent Overall Properties. <i>Inorganic Chemistry</i> , 2018, 57, 10503-10506.	4.0	55
89	Controllable negative thermal expansion, ferroelectric and semiconducting properties in PbTiO ₃ ∩Bi(Co _{2/3} Nb _{1/3})O ₃ solid solutions. <i>Journal of Materials Chemistry C</i> , 2017, 5, 931-936.	5.5	15
90	High mechanical strength in Zn ₄ B ₆ O ₁₃ with an unique sodalite-cage structure. <i>RSC Advances</i> , 2017, 7, 2038-2043.	3.6	7

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91	Zero Thermal Expansion and Semiconducting Properties in PbTiO_3 - $\text{Bi}(\text{Co})_2\text{TeO}_7$. <i>Journal of Applied Physics</i> , 2017, 121, 104301. DOI: 10.1063/1.497414	4.0	10
92	$\text{K}_8\text{Ce}_2\text{I}_{18}\text{O}_{53}$: a novel potassium cerium(IV) iodate with enhanced visible light driven photocatalytic activity resulting from polar zero dimensional $[\text{Ce}(\text{IO}_3)_8]^{4+}$ units. <i>Dalton Transactions</i> , 2017, 46, 4170-4173.	3.3	12
93	Tunable thermal expansion in framework materials through redox intercalation. <i>Nature Communications</i> , 2017, 8, 14441.	12.8	95
94	$\text{K}_2\text{ZnSn}_3\text{Se}_8$: A Non-Centrosymmetric Zinc Selenidostannate(IV) Featuring Interesting Covalently Bonded $[\text{ZnSn}_3\text{Se}_8]^{2+}$ Layer and Exhibiting Intriguing Second Harmonic Generation Activity. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1282-1285.	3.3	16
95	$\text{ABi}_2(\text{IO}_3)_2\text{F}_5$ (A=K, Rb, and Cs): A Combination of Halide and Oxide Anionic Units To Create a Large Second Harmonic Generation Response with a Wide Bandgap. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9492-9496.	13.8	129
96	Colossal Volume Contraction in Strong Polar Perovskites of $\text{Pb}(\text{Ti,V})\text{O}_3$. <i>Journal of the American Chemical Society</i> , 2017, 139, 14865-14868.	13.7	55
97	Structural Evolution in $\text{BaSn}_2\text{F}_5\text{X}$ (X = Cl, Br, I): A Family of Alkaline Earth Metal Tin Mixed Halides. <i>Inorganic Chemistry</i> , 2017, 56, 13593-13599.	4.0	11
98	Structural Design of Two Fluorine-Beryllium Borates $\text{BaMBe}_2(\text{BO}_3)_2\text{F}_2$ (M = Mg, Ca) Containing Flexible Two-Dimensional $[\text{Be}_3\text{B}_3\text{O}_6\text{F}_3]^{2-}$ Single Layers without Structural Instability Problems. <i>Inorganic Chemistry</i> , 2017, 56, 11451-11454.	4.0	9
99	$\text{Pb}_{0.65}\text{Mn}_{2.85}\text{Ga}_3\text{S}_8$ and $\text{Pb}_{0.72}\text{Mn}_{2.84}\text{Ga}_2.95\text{Se}_8$: Two Quaternary Metal Chalcogenides with Open-Tunnel-Framework Structures Displaying Intense Second Harmonic Generation Responses and Interesting Magnetic Properties. <i>Inorganic Chemistry</i> , 2017, 56, 8454-8461.	4.0	10
100	$\text{ABi}_2(\text{IO}_3)_2\text{F}_5$ (A=K, Rb, and Cs): A Combination of Halide and Oxide Anionic Units To Create a Large Second Harmonic Generation Response with a Wide Bandgap. <i>Angewandte Chemie</i> , 2017, 129, 9620-9624.	2.0	34
101	Borate-Based Ultraviolet and Deep-Ultraviolet Nonlinear Optical Crystals. <i>Crystals</i> , 2017, 7, 95.	2.2	43
102	$\text{BaBe}_2\text{BO}_3\text{F}_3$: A KBBF-Type Deep-Ultraviolet Nonlinear Optical Material with Reinforced $[\text{Be}_2\text{BO}_3\text{F}_2]^{2-}$ Layers and Short Phase-Matching Wavelength. <i>Chemistry of Materials</i> , 2016, 28, 8871-8875.	6.7	63
103	Molecular design on isoxazolone-based derivatives with large second-order harmonic generation effect and terahertz wave generation. <i>CrystEngComm</i> , 2016, 18, 3667-3673.	2.6	18
104	High thermoelectric performance of In-doped Cu_2SnSe_3 prepared by fast combustion synthesis. <i>New Journal of Chemistry</i> , 2016, 40, 5394-5400.	2.8	16
105	Near-Zero Thermal Expansion and High Ultraviolet Transparency in a Borate Crystal of $\text{Zn}_4\text{B}_6\text{O}_{13}$. <i>Advanced Materials</i> , 2016, 28, 7936-7940.	21.0	126
106	All-Three-in-One: A New Bismuth-Tellurium Borate Bi_3TeBO_9 Exhibiting Strong Second Harmonic Generation Response. <i>Journal of the American Chemical Society</i> , 2016, 138, 14190-14193.	13.7	185
107	Effect of cobalt doping on the structural, magnetic and abnormal thermal expansion properties of NaZn_{13} -type $\text{La}(\text{Fe}_x\text{Co}_x)_{11.4}\text{Al}_{1.6}$ compounds. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20276-20280.	2.8	9
108	Effect of C-5 position on the photochemical properties and phototoxicity of antofloxacin and levofloxacin: A stable and transient study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 155, 122-129.	3.8	15

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109	High pressure behaviour and elastic properties of a dense inorganic-organic framework. Dalton Transactions, 2016, 45, 4303-4308.	3.3	26
110	Flux Crystal Growth and the Electronic Structure of BaFe ₁₂ O ₁₉ Hexaferrite. Journal of Physical Chemistry C, 2016, 120, 5114-5123.	3.1	96
111	Negative linear compressibility in a crystal of $\hat{\Gamma}$ -BiB ₃ O ₆ . Scientific Reports, 2015, 5, 13432.	3.3	28
112	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
113	The Double Molybdate Rb ₂ Ba(MoO ₄) ₂ : Synthesis, Crystal Structure, Optical, Thermal, Vibrational Properties, and Electronic Structure. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2321-2325.	1.2	14
114	K ₅ Mo ₄ O ₁₄ F: A Novel Fluorinated Polyoxomolybdate and Its Structural Stability. Inorganic Chemistry, 2015, 54, 6066-6068.	4.0	7
115	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
116	Isoxazolone-based single crystals with large second harmonic generation effect. CrystEngComm, 2015, 17, 7316-7322.	2.6	18
117	Synthesis, crystal growth, and second-order nonlinear optical properties of new configurationally locked polyene derivatives. CrystEngComm, 2015, 17, 1050-1055.	2.6	19
118	Development of nonlinear optical materials promoted by density functional theory simulations. International Journal of Modern Physics B, 2014, 28, 1430018.	2.0	27
119	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
120	First-principles materials applications and design of nonlinear optical crystals. Journal Physics D: Applied Physics, 2014, 47, 253001.	2.8	201
121	Area negative thermal expansion in a beryllium borate LiBeBO ₃ with edge sharing tetrahedra. Chemical Communications, 2014, 50, 13499-13501.	4.1	35
122	A combination of multiple chromophores enhances second-harmonic generation in a nonpolar noncentrosymmetric oxide: CdTeMoO ₆ . Journal of Materials Chemistry C, 2013, 1, 2906.	5.5	67
123	Bandgaps in the deep ultraviolet borate crystals: Prediction and improvement. Applied Physics Letters, 2013, 102, 231904.	3.3	47
124	From Ce(IO ₃) ₄ to CeF ₂ (IO ₃) ₂ : fluorinated homovalent substitution simultaneously enhances SHG response and bandgap for mid-infrared nonlinear optics. Journal of Materials Chemistry C, 0, , .	5.5	11