

# Ling Huang

## List of Publications by Year in descending order

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53  
papers

2,677  
citations

201674

27  
h-index

182427

51  
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53  
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53  
docs citations

53  
times ranked

933  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alkaline-Alkaline Earth Fluoride Carbonate Crystals $ABCO_3F$ (A = K, Rb, Cs; B = Ca, Sr, Ba) as Nonlinear Optical Materials. <i>Journal of the American Chemical Society</i> , 2011, 133, 20001-20007.	13.7	418
2	$CsSbF_2SO_4$ : An Excellent Ultraviolet Nonlinear Optical Sulfate with a $KTiOPO_4$ (KTP)-type Structure. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6528-6534.	13.8	280
3	$CsPbCO_3F$ : A Strong Second-Harmonic Generation Material Derived from Enhancement via $\pi$ - $\pi$ Interaction. <i>Journal of the American Chemical Society</i> , 2013, 135, 18560-18566.	13.7	242
4	$K_2Sb(P_2O_7)F$ : Cairo Pentagonal Layer with Bifunctional Genes Reveal Optical Performance. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21151-21156.	13.8	156
5	Perfect balance harmony in $Ba_2NO_3(OH)_3$ : a beryllium-free nitrate as a UV nonlinear optical material. <i>Chemical Communications</i> , 2018, 54, 5792-5795.	4.1	143
6	$Sr_2(OH)_3NO_3$ : the first nitrate as a deep UV nonlinear optical material with large SHG responses. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5268-5274.	5.5	136
7	High-performance Sulfate Optical Materials Exhibiting Giant Second Harmonic Generation and Large Birefringence. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	94
8	$CsSbF_2SO_4$ : An Excellent Ultraviolet Nonlinear Optical Sulfate with a $KTiOPO_4$ (KTP)-type Structure. <i>Angewandte Chemie</i> , 2019, 131, 6598-6604.	2.0	72
9	Centrosymmetric $(NH_4)_2SbCl(SO_4)_2$ and Non-centrosymmetric $(NH_4)_4SbCl_2(SO_4)$ : Synergistic Effect of Hydrogen-Bonding Interactions and Lone-Pair Cations on the Framework Structures and Macroscopic Centricities. <i>Crystal Growth and Design</i> , 2018, 18, 6239-6247.	3.0	71
10	The study of structure evolution of $KTiOPO_4$ family and their nonlinear optical properties. <i>Coordination Chemistry Reviews</i> , 2020, 423, 213491.	18.8	61
11	Cation-tuned synthesis of the $A_2SO_4 \cdot nSbF_3$ (A = Na, K, Rb, Cs) $Tj$ ETQq1 1 0.784314 rgB properties. <i>Dalton Transactions</i> , 2018, 47, 17486-17492.	3.3	60
12	$RbSbSO_4Cl_2$ : an excellent sulfate nonlinear optical material generated due to the synergistic effect of three asymmetric chromophores. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5748-5754.	5.5	58
13	Sulfur quantum dots wrapped by conductive polymer shell with internal void spaces for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4049-4057.	10.3	48
14	Centrosymmetric $K_2SO_4 \cdot n(SbF_3)_2$ and noncentrosymmetric $Rb_2SO_4 \cdot n(SbF_3)_2$ resulting from cooperative effects of lone pair and cation size. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3125-3132.	6.0	48
15	Low Temperature Vacuum Synthesis of Triangular CoO Nanocrystal/Graphene Nanosheets Composites with Enhanced Lithium Storage Capacity. <i>Scientific Reports</i> , 2015, 5, 10017.	3.3	47
16	An energy band engineering design to enlarge the band gap of $KTiOPO_4$ (KTP)-type sulfates via aliovalent substitution. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8131-8138.	5.5	46
17	$Y_8O(OH)_{15}(CO_3)_3Cl$ : an excellent short-wave UV nonlinear optical material exhibiting an infrequent three-dimensional inorganic cationic framework. <i>Chemical Communications</i> , 2019, 55, 4538-4541.	4.1	43
18	$K_4Sb(SO_4)_3Cl$ : The first apatite-type sulfate ultraviolet nonlinear optical material with sharply enlarged birefringence. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155154.	5.5	36

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19	$A_6Sb_4F_{12}(SO_4)_3$ (A = Rb, Cs): Two Novel Antimony Fluoride Sulfates with Unique Crown-like Clusters. <i>Inorganic Chemistry</i> , 2020, 59, 8345-8352.	4.0	35
20	Deep-Ultraviolet Mixed-Alkali-Metal Borates with Induced Enlarged Birefringence Derived from the Structure Rearrangement of the $LiB_3O_5$ . <i>Inorganic Chemistry</i> , 2019, 58, 5949-5955.	4.0	34
21	$Rb_3SbF_3(NO_3)_3$ : an excellent antimony nitrate nonlinear optical material with a strong second harmonic generation response fabricated by a rational multi-component design. <i>Dalton Transactions</i> , 2019, 48, 15144-15150.	3.3	33
22	Polymeric cathode materials of electroactive conducting poly(triphenylamine) with optimized structures for potential organic pseudo-capacitors with higher cut-off voltage and energy density. <i>RSC Advances</i> , 2015, 5, 9221-9227.	3.6	32
23	$CsHgNO_3Cl_2$ : A New Nitrate UV Birefringent Material Exhibiting an Optimized Layered Structure. <i>Inorganic Chemistry</i> , 2020, 59, 12578-12585.	4.0	32
24	Two-stage evolution from phosphate to sulfate of new KTP-type family members as UV nonlinear optical materials through chemical cosubstitution-oriented design. <i>Dalton Transactions</i> , 2020, 49, 5276-5282.	3.3	31
25	Exploring Potential Beryllium-free, Deep-Ultraviolet Optical Crystals in the Rare Earth Fluoride Carbonate "Water System. <i>Crystal Growth and Design</i> , 2018, 18, 3644-3653.	3.0	30
26	Synthesis and characterization of a new beryllium-free deep-ultraviolet nonlinear optical material: $Na_2GdCO_3F_3$ . <i>Journal of Alloys and Compounds</i> , 2017, 724, 1057-1063.	5.5	29
27	Centrosymmetric $RbSnF_2NO_3$ vs. noncentrosymmetric $Rb_2SbF_3(NO_3)_2$ . <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3317-3324.	6.0	29
28	$K_2[B_3O_3(OH)_5]$ : A new deep-UV nonlinear optical crystal with isolated $[B_3O_3(OH)_5]^{2-}$ anionic groups. <i>Journal of Alloys and Compounds</i> , 2018, 735, 677-683.	5.5	28
29	$K_2Sb(P_2O_7)F$ : Cairo Pentagonal Layer with Bifunctional Genes Reveal Optical Performance. <i>Angewandte Chemie</i> , 2020, 132, 21337-21342.	2.0	26
30	Cation-anion synergetic interactions achieving tunable birefringence in quasi-one-dimensional antimony(III) fluoride oxalates. <i>Science China Materials</i> , 2022, 65, 3115-3124.	6.3	25
31	Graphene-Enveloped Poly( <i>N</i> -vinylcarbazole)/Sulfur Composites with Improved Performances for Lithium "Sulfur Batteries by A Simple Vibrating-Emulsification Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16668-16675.	8.0	24
32	Tin Chloride Sulfates $A_3Sn_2(SO_4)_3 \cdot xCl_{1+2x}$ (A =) <i>Tj</i> $1.0$ $0.0$ $2g$ BT /Over		
33	Surfactant-Thermal Synthesis of Amino Acid-Templated Zinc Phosphates with 3-Connected Nets Related to Zeolite ABW. <i>Inorganic Chemistry</i> , 2019, 58, 4089-4092.	4.0	20
34	$NH_4Sb_2(C_2O_4)F_5$ : A novel UV nonlinear optical material synthesized in deep eutectic solvents. <i>Journal of Alloys and Compounds</i> , 2022, 896, 162921.	5.5	20
35	Hydrogen Bonding Assisted Construction of Graphite-like Deep-UV Optical Materials with Two Types of Parallel $\pi$ -Conjugated Units. <i>Crystal Growth and Design</i> , 2018, 18, 4756-4765.	3.0	18
36	$(NH_4)_3[B(OH)_3]_2(COOH)_3$ : a graphite-like UV nonlinear optical material with a large birefringence via structural optimization. <i>Chemical Communications</i> , 2020, 56, 9982-9985.	4.1	16

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37	Unprecedented boat-shaped $[\text{Mo}_2\text{O}_5(\text{IO}_3)_4]^{2+}$ polyanions induced a strong second harmonic generation response. <i>Chemical Communications</i> , 2022, 58, 3350-3353.	4.1	16
38	Corrugated 1D Hybrid Metal Halide $[\text{C}_6\text{H}_7\text{ClN}]\text{CdCl}_3$ Exhibiting Broadband White-Light Emission. <i>Inorganic Chemistry</i> , 2022, 61, 4752-4759.	4.0	15
39	Homochiral Hybrid Organic-Inorganic Cadmium Chlorides Directed by Enantiopure Amino Acids. <i>Inorganic Chemistry</i> , 2022, 61, 11032-11035.	4.0	14
40	Synthesis and characterization of $\text{Cd}_4\text{YbO}(\text{BO}_3)_3$ a congruent melting cadmium-ytterbium oxyborate with large nonlinear optical properties. <i>New Journal of Chemistry</i> , 2014, 38, 6186-6192.	2.8	11
41	Synthesis, crystal structures and nonlinear optical properties of polymorphism: $\hat{1}\pm$ - and $\hat{1}^2$ - $\text{RbHgI}_3\cdot\text{H}_2\text{O}$ . <i>Journal of Alloys and Compounds</i> , 2019, 771, 547-554.	5.5	10
42	Two amino acid-templated metal phosphates: surfactant-thermal synthesis, water stability, and proton conduction. <i>Dalton Transactions</i> , 2020, 49, 5440-5444.	3.3	10
43	Enhanced Interlayer Interaction and Second-Harmonic-Generation Response in a $\text{KBe}_2\text{BO}_3\text{F}_2$ -Type Inorganic-Organic Hybrid Zinc Borate. <i>Inorganic Chemistry</i> , 2022, 61, 6720-6724.	4.0	10
44	Noncentrosymmetric $\text{Rb}_3(\text{COOH})_3(\text{H}_3\text{BO}_3)_2$ vs Centrosymmetric $\text{Cs}_3(\text{COOH})_3(\text{H}_3\text{BO}_3)_2$ . <i>Crystal Growth and Design</i> , 2021, 21, 5976-5982.	3.0	8
45	Three-dimensional all-inorganic dual halogen emitter $\text{Cs}_2\text{Cd}_2\text{BrCl}_5$ exhibiting broadband white-light emission. <i>Journal of Materials Chemistry C</i> , 2022, 10, 13844-13850.	5.5	8
46	High-Performance Sulfate Optical Materials Exhibiting Giant Second Harmonic Generation and Large Birefringence. <i>Angewandte Chemie</i> , 2022, 134, e202116790.	2.0	8
47	Amino acid-templated zinc phosphites: low-dimensional structures, fluorescence, and nonlinear optical properties. <i>Dalton Transactions</i> , 2021, 50, 5442-5445.	3.3	6
48	Isonicotinic acid-templated metal phosphate-oxalates: solvent-free synthesis, luminescence, and proton conduction. <i>CrystEngComm</i> , 2021, 23, 6855-6858.	2.6	6
49	$\text{KLi}_2\text{CO}_3\text{F}$ : a beryllium-free KBBF-type deep-UV carbonate with an enhanced interlayer interaction and large birefringence. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3590-3597.	6.0	5
50	Two molybdenyl carbonates with different dimensional structures exhibiting huge differences in band gaps. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 440-447.	6.0	3
51	Reply to the Correspondence on $\text{K}_2\text{Sb}(\text{P}_2\text{O}_7)\text{F}$ : Cairo Pentagonal Layer with Bifunctional Genes Reveal Optical Performance. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3856-3857.	13.8	2
52	Yin-Yang Complementarity Strategy Achieving Giant Optical Anisotropy in a Metal-free Birefringent Material $\text{C}(\text{NH}_2)_3(\text{HC}_4\text{O}_4)$ . <i>Crystal Growth and Design</i> , 2022, 22, 4236-4242.	3.0	2
53	Reply to the Correspondence on $\text{K}_2\text{Sb}(\text{P}_2\text{O}_7)\text{F}$ : Cairo Pentagonal Layer with Bifunctional Genes Reveal Optical Performance. <i>Angewandte Chemie</i> , 2021, 133, 3900-3901.	2.0	0