Ying Wang

List of Publications by Year
in descending order

106	7,104	94269 37	58464 82
papers	citations	h-index	g-index

124	124	124	2179
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Finding the Next Deep-Ultraviolet Nonlinear Optical Material: NH₄B₄O₆F. Journal of the American Chemical Society, 2017, 139, 10645-10648.	6.6	889
2	CsB₄O₆F: A Congruentâ€Melting Deepâ€Ultraviolet Nonlinear Optical Material by Combining Superior Functional Units. Angewandte Chemie - International Edition, 2017, 56, 14119-14123.	7.2	654
3	Cationâ€Tuned Synthesis of Fluorooxoborates: Towards Optimal Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie - International Edition, 2018, 57, 2150-2154.	7.2	527
4	Polar Fluorooxoborate, NaB₄O₆F: A Promising Material for Ionic Conduction and Nonlinear Optics. Angewandte Chemie - International Edition, 2018, 57, 6577-6581.	7.2	368
5	Designing an Excellent Deep-Ultraviolet Birefringent Material for Light Polarization. Journal of the American Chemical Society, 2018, 140, 16311-16319.	6.6	350
6	A New Deep-Ultraviolet Transparent Orthophosphate LiCs₂PO₄ with Large Second Harmonic Generation Response. Journal of the American Chemical Society, 2016, 138, 9101-9104.	6.6	307
7	Recent development of metal borate halides: Crystal chemistry and application in second-order NLO materials. Coordination Chemistry Reviews, 2016, 323, 15-35.	9.5	272
8	High-Performance Planar-Type Photodetector on (100) Facet of MAPbI3 Single Crystal. Scientific Reports, 2015, 5, 16563.	1.6	270
9	Expanding Frontiers of Ultraviolet Nonlinear Optical Materials with Fluorophosphates. Chemistry of Materials, 2018, 30, 5397-5403.	3.2	193
10	Chemical Cosubstitution-Oriented Design of Rare-Earth Borates as Potential Ultraviolet Nonlinear Optical Materials. Journal of the American Chemical Society, 2017, 139, 18397-18405.	6.6	187
11	CsB₄O₆F: A Congruentâ€Melting Deepâ€Ultraviolet Nonlinear Optical Material by Combining Superior Functional Units. Angewandte Chemie, 2017, 129, 14307-14311.	1.6	166
12	CaB₅O₇F₃: A Beryllium-Free Alkaline-Earth Fluorooxoborate Exhibiting Excellent Nonlinear Optical Performances. Inorganic Chemistry, 2018, 57, 4820-4823.	1.9	136
13	Cationâ€Tuned Synthesis of Fluorooxoborates: Towards Optimal Deepâ€Ultraviolet Nonlinear Optical Materials. Angewandte Chemie, 2018, 130, 2172-2176.	1.6	131
14	CsAlB₃O₆F: a beryllium-free deep-ultraviolet nonlinear optical material with enhanced thermal stability. Chemical Science, 2020, 11, 694-698.	3.7	108
15	LiRb₂PO₄: a new deep-ultraviolet nonlinear optical phosphate with a large SHG response. Journal of Materials Chemistry C, 2017, 5, 269-274.	2.7	84
16	An outstanding second-harmonic generation material BiB₂O₄F: exploiting the electron-withdrawing ability of fluorine. Inorganic Chemistry Frontiers, 2015, 2, 170-176.	3.0	82
17	Fluorooxoborates: Ushering in a New Era of Deep Ultraviolet Nonlinear Optical Materials. Chemistry - A European Journal, 2018, 24, 17638-17650.	1.7	79
18	Cs₄Mo₅P₂O₂₂: a first Strandberg-type POM with 1D straight chains of polymerized [Mo₅P₂O₂₃]^{6â^'}units and moderate second harmonic generation response. Chemical Communications, 2013, 49, 306-308.	2.2	74

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19	Linear and Nonlinear Optical Properties of K₃B₆O₁₀Br Single Crystal: Experiment and Calculation. Journal of Physical Chemistry C, 2014, 118, 11849-11856.	1.5	73
20	A Series of Rare-Earth Borates K₇MRE₂B₁₅O₃₀ (M =) Tj ETQq0 0 0 rgBT /Overlock 1 Materials, 2018, 30, 2414-2423.	3.2	73
21	BaCdSnS₄and Ba₃CdSn₂S₈: syntheses, structures, and non-linear optical and photoluminescence properties. Dalton Transactions, 2016, 45, 10681-10688.	1.6	72
22	Na₃Cd₃B(PO₄)₄: A New Noncentrosymmetric Borophosphate with Zero-Dimensional Anion Units. Inorganic Chemistry, 2012, 51, 10870-10875.	1.9	71
23	Polar Fluorooxoborate, NaB₄O₆F: A Promising Material for Ionic Conduction and Nonlinear Optics. Angewandte Chemie, 2018, 130, 6687-6691.	1.6	66
24	Three new phosphates with isolated P₂O₇units: noncentrosymmetric Cs₂Ba₃(P₂O₇)₂and centrosymmetric Cs₂BaP₂O₇and LiCsBaP₂O₇. Dalton Transactions, 2016, 45, 3936-3942.	1.6	62
25	Experimental and theoretical studies on the linear and nonlinear optical properties of lead phosphate crystals LiPbPO₄. Physical Chemistry Chemical Physics, 2016, 18, 19123-19129.	1.3	61
26	First-Principles High-Throughput Screening Pipeline for Nonlinear Optical Materials: Application to Borates. Chemistry of Materials, 2020, 32, 6772-6779.	3.2	59
27	Synthesis, crystal structures and optical properties of two congruent-melting isotypic diphosphates: LiM3P2O7 (M=Na, K). Journal of Solid State Chemistry, 2013, 197, 128-133.	1.4	55
28	Experimental and Theoretical Studies on the Linear and Nonlinear Optical Properties of Bi₂ZnOB₂O₆. Journal of Physical Chemistry C, 2013, 117, 14149-14157.	1.5	54
29	New Salt-Inclusion Borate, Li₃Ca₉(BO₃)₇Â·2[LiF]: A Promising UV NLO Material with the Coplanar and High Density BO₃ Triangles. Inorganic Chemistry, 2013, 52, 5359-5365.	1.9	48
30	Noncentrosymmetric versus Centrosymmetric: Influence of the Na⁺ Substitution on Structural Transition and Second-Harmonic Generation Property. Crystal Growth and Design, 2014, 14, 1794-1801.	1.4	48
31	Further Examples of the Pa€Oa€P Connection in Borophosphates: Synthesis and Characterization of Li₂Cs₂B₂P₄O₁₅, LiK₂BP₂O₈, and Li₃M₂BP₄O₁₄ (M=K, Rb). Chemistry - A European Journal, 2012, 18, 12046-12051.	1.7	47
32	Designing Deepâ€UV Birefringent Crystals by Cation Regulation. Chemistry - A European Journal, 2018, 24, 11267-11272.	1.7	47
33	Recent advances of oxyfluorides for nonlinear optical applications. Inorganic Chemistry Frontiers, 2021, 8, 1637-1654.	3.0	47
34	Finding Optimal Mid-Infrared Nonlinear Optical Materials in Germanates by First-Principles High-Throughput Screening and Experimental Verification. ACS Applied Materials & Interfaces, 2020, 12, 45023-45035.	4.0	46
35	BaB8O12F2: a promising deep-UV birefringent material. Inorganic Chemistry Frontiers, 2019, 6, 546-549.	3.0	45
36	New Alkaline-Earth Metal Fluoroiodates Exhibiting Large Birefringence and Short Ultraviolet Cutoff Edge with Highly Polarizable (IO₃F)^{2â€“} Units. Chemistry of Materials, 2020, 32, 5723-5728.	3.2	44

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37	Exploring Deep-UV Nonlinear Optical Materials with Enhanced Second Harmonic Generation Response and Birefringence in Fluoroaluminoborate Crystals. ACS Applied Materials & Interfaces, 2021, 13, 30853-30860.	4.0	42
38	A Fluorooxosilicophosphate with an Unprecedented SiO₂F₄ Species. Angewandte Chemie - International Edition, 2018, 57, 9828-9832.	7.2	40
39	ZnIO₃F: Zinc Iodate Fluoride with Large Birefringence and Wide Band Gap. Inorganic Chemistry, 2020, 59, 4172-4175.	1.9	40
40	K 3 B 6 O 9 F 3 : A New Fluorooxoborate with Four Different Anionic Units. Chemistry - A European Journal, 2018, 24, 4497-4502.	1.7	38
41	Second-harmonic generation in noncentrosymmetric phosphates. Physical Review B, 2017, 96, .	1.1	37
42	BaClBF4: a new noncentrosymmetric pseudo-Aurivillius type material with transparency range from deep UV to middle IR and a high laser damage threshold. Journal of Materials Chemistry C, 2013, 1, 4740.	2.7	36
43	Synthesis, crystal growth and characterization of a new noncentrosymmetric borophosphate: RbPbBP2O8. CrystEngComm, 2013, 15, 4956.	1.3	35
44	A3Sr2P7O21 (A = Rb, Cs): Two Polyphosphates Based on Different Types of Pâ€“O Chains and Ring Structures. Inorganic Chemistry, 2017, 56, 3939-3945.	1.9	33
45	From silicates to oxonitridosilicates: improving optical anisotropy for phase-matching as ultraviolet nonlinear optical materials. Chemical Communications, 2021, 57, 639-642.	2.2	32
46	New Molybdenum(VI) Phosphates: Synthesis, Characterization, and Calculations of Centrosymmetric RbMoO2PO4 and Noncentrosymmetric Rb4Mo5P2O22. Inorganic Chemistry, 2013, 52, 1488-1495.	1.9	31
47	Effect of Halogen (Cl, Br) on the Symmetry of Flexible Perovskite-Related Framework. Inorganic Chemistry, 2014, 53, 11213-11220.	1.9	30
48	Three Mixed-Alkaline Borates: Na₂M₂B₂₀O₃₂ (M = Rb,) Tj ETQq0 0 0 rgBT /Overloc Li₄Cs₄B₄₀O₆₄ with Fundamental Building Block B₄₀O₇₇. Inorganic Chemistry, 2017, 56, 13456-13463.	1.9	29
49	BaBOF₃: a new aurivillius-like borate containing two types of F atoms. Dalton Transactions, 2018, 47, 5157-5160.	1.6	29
50	Structural insights for the design of new borateâ€“phosphates: synthesis, crystal structure and optical properties of Pb₄O(BO₃)(PO₄) and Bi₄O₃(BO₃)(PO₄). Dalton Transactions, 2014, 43, 12886-12893.	1.6	28
51	Second-order nonlinear optical materials with a benzene-like conjugated Ï€ system. Chemical Communications, 2020, 56, 13689-13701.	2.2	27
52	Growth, Properties, and Theoretical Analysis of M2LiVO4 (Mâ€‰=â€‰Rb, Cs) Crystals: Two Potential Mid-Infrared Nonlinear Optical Materials. Scientific Reports, 2017, 7, 1901.	1.6	25
53	Predicting Global Minimum in Complex Beryllium Borate System for Deep-ultraviolet Functional Optical Applications. Scientific Reports, 2016, 6, 34839.	1.6	24
54	Synthesis, characterization, and theoretical analysis of three new nonlinear optical materials K7MRE2B15O30 (M= Ca and Ba, RE= La and Bi). Science China Materials, 2019, 62, 1151-1161.	3.5	24

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55	Effect of the cation size on the framework structures of magnesium tungstate, A₄Mg(WO₄)₃(A = Na, K), R₂Mg₂(WO₄)₃(R = Rb, Cs). Dalton Transactions, 2015, 44, 5810-5817.	1.6	23
56	A Member of Fluorooxoborates: Li₂Na_{0.9}K_{0.1}B₅O₈F₂ with the Fundamental Building Block B₅O₁₀F₂ and a Short Cutoff Edge. Inorganic Chemistry, 2018, 57, 873-878.	1.9	23
57	K7B2P5O19: a novel alkali metal borophosphate with zero dimensional [B2P5O19]7â‾ anionic units. CrystEngComm, 2014, 16, 6848-6851.	1.3	22
58	Exploring the influence of cationic skeletons on the arrangement of isolated BO₃groups based on RbMgBO₃, CsZn₄(BO₃)₃and Cs₄Mg₄(BO₃)₄. New Journal of Chemistry, 2014, 38, 3035-3041.	1.4	22
59	Design and Syntheses of Three Novel Carbonate Halides: Cs₃Pb₂(CO₃)₃I, KBa₂(CO₃)₂F, and RbBa₂(CO₃)₂F. Chemistry - A European Journal, 2016, 22, 2944-2954.	1.7	22
60	Application of the Dimensional Reduction Formalism to Pb12[Li2(P2O7)2(P4O13)2](P4O13): a Phosphate Containing Three Types of Isolated Pâ€“O Groups. Inorganic Chemistry, 2016, 55, 7329-7331.	1.9	21
61	The activity of lone pair contributing to SHG response in bismuth borates: a combination investigation from experiment and DFT calculation. Physical Chemistry Chemical Physics, 2017, 19, 25270-25276.	1.3	20
62	The first lithium difluorophosphate LiPO₂F₂with a neutral polytetrahedral microporous architecture. Chemical Communications, 2019, 55, 1817-1820.	2.2	20
63	Li_{0.8}Mg_{2.1}B₂O₅F: the first borate fluoride with magnesiumâ€“oxygenâ€“fluorine octahedral chains. Dalton Transactions, 2014, 43, 2828-2834.	1.6	19
64	Cs₆RE₂(PO₄)₄(RE = Y and Gd): two new members of the alkali rare-earth double phosphates. New Journal of Chemistry, 2015, 39, 4328-4333.	1.4	19
65	Finding the First Squarates Nonlinear Optical Crystal NaHC₄O₄Â·H₂O with Strong Second Harmonic Generation and Giant Birefringence. , 2022, 4, 572-576.		19
66	K₁₁RbB₂₈O₄₈: a new triple-layered borate with an unprecedented [B₂₈O₅₇] fundamental building block. Dalton Transactions, 2018, 47, 10833-10836.	1.6	18
67	Ba(B2OF3(OH)2)2 with well-ordered OH/F anions and a unique B2OF3(OH)2 dimer. Chemical Communications, 2020, 56, 3301-3304.	2.2	18
68	Assembly of four copper(II)â€“2,2â€²-biimidazole complex-supported Strandberg-type phosphomolybdates. Transition Metal Chemistry, 2011, 36, 261-267.	0.7	17
69	Syntheses, crystal structures, and optical properties of Pb6B3O10X (X=F, Cl, Br). Journal of Solid State Chemistry, 2013, 204, 64-69.	1.4	17
70	The influence of hydrogen bonding on the nonlinear optical properties of a semiorganic material NH₄B[<scp>d</scp>-(+)-C₄H₄O₅]₂Â·H₂O: a theoretical perspective. Physical Chemistry Chemical Physics, 2014, 16, 20089.	1.3	17
71	Synergistic Effect of Ï€-Conjugated [C(NH₂)₃] Cation and Sb(III) Lone Pair Stereoactivity on Structural Transformation and Second Harmonic Generation. Inorganic Chemistry, 2021, 60, 18483-18489.	1.9	17
72	Role of the metal cation types around VO4 groups on the nonlinear optical behavior of materials: experimental and theoretical analysis. Dalton Transactions, 2016, 45, 14394-14402.	1.6	16

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73	Hierarchized band gap and enhanced optical responses of trivalent rare-earth metal nitrates due to (dâ€“p)Ï€ conjugation interactions. Journal of Materials Chemistry C, 2016, 4, 6295-6301.	2.7	16
74	Evidence of â€œnew hot spotsâ€•from determining the nonlinear optical behavior of materials: mechanistic studies of the vanadium borate crystal, Na₃VO₂B₆O₁₁. Physical Chemistry Chemical Physics, 2015, 17, 5338-5344.	1.3	15
75	Designing Three Fluorooxoborates with a Wide Transmittance Window by Anionic Group Substitution. Inorganic Chemistry, 2019, 58, 3596-3600.	1.9	14
76	Pb₄B₆O₁₃: A Polar Lead Oxyborate with Uncommon _{âˆž}(B₆O₁₂)^{6â€“} Layers Exhibiting a Large Second Harmonic Generation Response. Inorganic Chemistry, 2019, 58, 1750-1754.	1.9	14
77	Specialâˆž1[OPb2] Chains andâˆž1[O2Pb3] Ribbons Based on OPb4Anion-Centered Tetrahedra in Pb2(O4Pb8)(BO3)3Br3and Pb2(O8Pb12)(BO3)2Br6. Inorganic Chemistry, 2013, 52, 11377-11384.	1.9	13
78	Crystal growth and calculation of the electronic band structure and density of states of Li3Cs2B5O10. CrystEngComm, 2014, 16, 1978.	1.3	13
79	The Effect of the Ratio of [M/(B+P)] on the Configuration of Anionic Groups: Synthesis of the Borateâ€“Phosphate LiPb₄(BO₃)(PO₄)₂. European Journal of Inorganic Chemistry, 2014, 2014, 3467-3473.	1.0	13
80	Syntheses, structures and characterizations of Rb3Na(MO4)2 (MÂ=ÂMo, W) crystals. Solid State Sciences, 2014, 33, 32-37.	1.5	13
81	Linear-to-Î»-Shape Pâ€“Oâ€“P Bond Transmutation in Polyphosphates with Infinite (PO₃)_{âˆž} Chain. Inorganic Chemistry, 2017, 56, 10139-10142.	1.9	13
82	Syntheses, characterization and theoretical studies of three apatite-type phosphates MPb4(PO4)3 (MÂ=) Tj ETQq0 0 0 rgBT /Overlock 1	2.8	13
83	Insights of BO3â€“PO4 replacement for the design and synthesis of a new borateâ€“phosphate with unique 1âˆž[Zn4BO11] chains and two new phosphates. Inorganic Chemistry Frontiers, 2018, 5, 327-334.	3.0	11
84	Synthesis and structural characterization of a new rubidium borosulfate, Rb5BS4O16. Materials Research Bulletin, 2015, 63, 93-98.	2.7	10
85	Nonlinear optical and self-activated luminescent properties of A2W3O10 (A = Rb and Cs). RSC Advances, 2016, 6, 39234-39239.	1.7	10
86	SrAlB3O6F2: A Fluoroaluminoborate with [Al2B6O14F4] Units and Large Birefringence. Inorganic Chemistry, 2021, 60, 10006-10011.	1.9	10
87	Tellurate polymorphs with high-performance nonlinear optical switch property and wide mid-IR transparency. Inorganic Chemistry Frontiers, 2022, 9, 1708-1713.	3.0	10
88	Light illumination and temperature-induced currentâ€“voltage hysteresis in single-crystal perovskite photodiodes. CrystEngComm, 2021, 23, 1663-1670.	1.3	9
89	Intense d-p Hybridization Induced a Vast SHG Response Disparity between Tetrahedral Vanadates and Arsenates. Journal of Physical Chemistry C, 2020, 124, 24949-24956.	1.5	8
90	Facile synthesis of cesium trithiocyanurate with high ionic conductivity and large birefringence properties. CrystEngComm, 2020, 22, 6495-6501.	1.3	8

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91	Band gap modulation and nonlinear optical properties of quaternary tellurates Li₂GeTeO₆. Dalton Transactions, 2022, 51, 8955-8959.	1.6	8
92	Synthesis and characterization of a new aluminophosphate with a Al₃P₆O₂₄^{9â^'} three-dimensional framework. New Journal of Chemistry, 2014, 38, 889-892.	1.4	7
93	LiMCO3 (M = K, Rb, Cs): a series of mixed alkali carbonates with large birefringence. Dalton Transactions, 2017, 46, 6894-6899.	1.6	7
94	Two lead borate-nitrates with anion-centered [OPb₄] tetrahedra and two types of Ï€-conjugated planar units showing large birefringence. Dalton Transactions, 2022, 51, 3421-3425.	1.6	7
95	Synthesis, Structure Characterization, and Optical Properties of the Aluminosilicate Li₂Na₃AlSi₂O₈. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 779-783.	0.6	6
96	Zn₄B₃O₉C₂H₈N₂: an organicâ€“inorganic hybrid borate with a novel graphene-like layer. New Journal of Chemistry, 2014, 38, 6025-6030.	1.4	6
97	Two noncentrosymmetric polyphosphates featuring infinite one-dimensional (PO3)â^ž chain, LiMP2O6 (M = Rb, Cs): Synthesis, structure and optical properties. Journal of Solid State Chemistry, 2018, 266, 150-154.	1.4	6
98	A Fluorooxosilicophosphate with an Unprecedented SiO₂F₄ Species. Angewandte Chemie, 2018, 130, 9976-9980.	1.6	5
99	Synthesis, Crystal Structure, and Properties of a New Lead Aluminum Fluoride Borate, Pb6AlB2O7F7. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, n/a-n/a.	0.6	4
100	BaPbSi₂O₆Â·BaSO₄: the first mixed anionic compound synthesized via BaSO₄ salt-inclusion. CrystEngComm, 2014, 16, 5993-5996.	1.3	4
101	Ba(dl-C4H4O5) â€" An alkaline earth metal-dicarboxylate hybrid crystal with the synergy of multi-bonds. Inorganic Chemistry Communication, 2015, 61, 5-9.	1.8	3
102	NaK₁₅[B₄O₅(OH)₄]₆(NO₂)₂(CO<sub>3</s assembly of an unprecedented mixed anion inorganic compound via a facile hydrothermal route. New Journal of Chemistry, 2020, 44, 4253-4256.	1.4	2
103	Frontispiece: Fluorooxoborates: Ushering in a New Era of Deep Ultraviolet Nonlinear Optical Materials. Chemistry - A European Journal, 2018, 24, .	1.7	1
104	ELECTRONIC STRUCTURE AND LINEAR OPTICAL PROPERTIES OF MIXED ALKALI-METAL BOROPHOSPHATES (LiK2BP2O8, Li3K2BP4O14): A FIRST-PRINCIPLES STUDY. Functional Materials Letters, 2013, 06, 1350046.	0.7	0
105	Frontispiece: K₃B₆O₉F₃: A New Fluorooxoborate with Four Different Anionic Units. Chemistry - A European Journal, 2018, 24, .	1.7	0
106	Frontispiece: Designing Deep-UV Birefringent Crystals by Cation Regulation. Chemistry - A European Journal, 2018, 24, .	1.7	0