

Pifu Gong

List of Publications by Year in descending order

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68
papers

3,759
citations

186265

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128289

60
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all docs

70
docs citations

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times ranked

1439
citing authors

#	ARTICLE	IF	CITATIONS
1	Centrosymmetric $Rb[Te_2O_4(OH)_5]$ and noncentrosymmetric $K_2[Te_3O_8(OH)_4]$: metal tellurates with corner and edge-sharing $(Te_4O_{18})^{12-}$ anion groups. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2628-2636.	6.0	7
2	Mid-Infrared Nonlinear Optical Halides with Diamond-like Structures: A Theoretical and Experimental Study. <i>Chemistry of Materials</i> , 2022, 34, 5301-5310.	6.7	9
3	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.	2.0	12
4	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.	13.8	49
5	$NaGa_3O_9F$: a new alkali metal gallium iodate combined with $IO_3^{\cdot-}$ and IO_3F^{2-} units. <i>Dalton Transactions</i> , 2021, 50, 11562-11567.	3.3	13
6	Tunable White Light Emission in a Zero-Dimensional Organic-Inorganic Metal Halide Hybrid with Ultra-High Color Rendering Index. <i>Advanced Optical Materials</i> , 2021, 9, 2002246.	7.3	41
7	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.	7.3	18
8	$LiZn(OH)CO_3$: A Deep-Ultraviolet Nonlinear Optical Hydroxycarbonate Designed from a Diamond-like Structure. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13574-13578.	13.8	88
9	$LiZn(OH)CO_3$: A Deep-Ultraviolet Nonlinear Optical Hydroxycarbonate Designed from a Diamond-like Structure. <i>Angewandte Chemie</i> , 2021, 133, 13686-13690.	2.0	9
10	Deep-Ultraviolet Nonlinear Optical van der Waals Beryllium Borates**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16680-16686.	13.8	17
11	Deep-Ultraviolet Nonlinear Optical van der Waals Beryllium Borates**. <i>Angewandte Chemie</i> , 2021, 133, 16816-16822.	2.0	4
12	$AZn_4(OH)_4(C_3N_3O_3)_2$ (A =) Tj ETQq0 0 0 rgBT /Overlock Inorganic Chemistry, 2021, 60, 10890-10894.	4.0	4
13	Investigation into Structural Variation from 3D to 1D and Strong Second Harmonic Generation of the $AHgPS_4$ (A = Na, K, Rb, Tl) Tj ETQq1 1 0.7843140rgBT /Overlock	4.0	4
14	A new $IO_3^{\cdot-}$ group constructed from $IO_3^{\cdot-}$ and IO_5^{5-} anion units in $Cs_3[Ga_2O(O_3O_9)(IO_3)_4(HIO_3)_2]$. <i>CrystEngComm</i> , 2021, 24, 77-82.	2.6	2
15	An unprecedented planar π -conjugated $[B_2P_5]^{5-}$ group with ultra-large birefringence and nonlinearity: an <i>in situ</i> study. <i>Chemical Communications</i> , 2020, 56, 643-646.	4.1	13
16	Realizing Deep-Ultraviolet Second Harmonic Generation by First-Principles-Guided Materials Exploration in Hydroxyborates. <i>Journal of the American Chemical Society</i> , 2020, 142, 15157-15163.	13.7	66
17	$Na_4CdGe_2S_7$: A Sodium-Rich Quaternary Wide-Band-Gap Chalcogenide with Two-Dimensional $[Ge_2CdS_7]^{2-}$ Layers. <i>Inorganic Chemistry</i> , 2020, 59, 16132-16136.	4.0	5
18	Nonlinear-Optical Crystal $Rb_3YB_6O_{12}$ with Condensed B_5O_{10} Blocks That Exhibits an Intriguing Structural Arrangement and a Short Ultraviolet Absorption Edge. <i>Inorganic Chemistry</i> , 2020, 59, 13029-13033.	4.0	13

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19	Selenite bromide nonlinear optical materials $\text{Pb}_2\text{GaF}_2(\text{SeO}_3)_2\text{Br}$ and $\text{Pb}_2\text{NbO}_2(\text{SeO}_3)_2\text{Br}$: synthesis and characterization. Dalton Transactions, 2020, 49, 14046-14051.	3.3	12
20	Hydrogen-Bond-Assisted Reinforcement of Interlayer Connections in $\text{Zn}_2\text{BO}_3\text{X}\cdot\text{H}_2\text{O}$ (X = Cl, Br): Two UV Nonlinear Optical Crystals with KBBF-Type Structure. Inorganic Chemistry, 2020, 59, 7789-7794.	4.0	6
21	Strong Second Harmonic Generation in a Tungsten Bronze Oxide by Enhancing Local Structural Distortion. Journal of the American Chemical Society, 2020, 142, 7480-7486.	13.7	33
22	Enhancing Photoluminescence Quantum Yield in 0D Metal Halides by Introducing Water Molecules. Advanced Functional Materials, 2020, 30, 2002468.	14.9	89
23	Inorganic planar π -conjugated groups in nonlinear optical crystals: review and outlook. Inorganic Chemistry Frontiers, 2020, 7, 839-852.	6.0	93
24	Lead-Free Tin(IV)-Based Organic-Inorganic Metal Halide Hybrids with Excellent Stability and Blue-Broadband Emission. Journal of Physical Chemistry Letters, 2020, 11, 1808-1813.	4.6	82
25	Synthesis and structure of a new mixed metal iodate $\text{Ba}_3\text{Ca}_2(\text{IO}_3)_{12}$. CrystEngComm, 2019, 21, 4981-4986.	2.6	14
26	Nitrate nonlinear optical crystals: A survey on structure-performance relationships. Coordination Chemistry Reviews, 2019, 400, 213045.	18.8	95
27	ASbF_3Cl (A = Rb, Cs): Structural Evolution from Centrosymmetry to Noncentrosymmetry. Crystal Growth and Design, 2019, 19, 1874-1879.	3.0	8
28	$\text{KNa}_4\text{B}_2\text{P}_3\text{O}_{13}$: A Deep-Ultraviolet Transparent Borophosphate Exhibiting Second-Harmonic Generation Response. Inorganic Chemistry, 2019, 58, 8918-8921.	4.0	19
29	$\text{M}_2(\text{SeO}_3)_2\text{F}_2$ (M = Zn, Cd): understanding the structure directing effect of $[\text{SeO}_3]^{2-}$ groups on constructing ordered oxyfluorides. CrystEngComm, 2019, 21, 2485-2489.	2.6	9
30	Lone-pair Enhanced Birefringence in an Alkaline-Earth Metal Tin(II) Phosphate $\text{BaSn}_2(\text{PO}_4)_2$. Chemistry - A European Journal, 2019, 25, 5648-5651.	3.3	95
31	$\text{Li}_2\text{CsB}_7\text{O}_{10}(\text{OH})_4$: A Deep-Ultraviolet Nonlinear-Optical Mixed-Alkaline Borate Constructed by Unusual Heptaborate Anions. Inorganic Chemistry, 2019, 58, 1755-1758.	4.0	74
32	Recent advances and future perspectives on infrared nonlinear optical metal halides. Coordination Chemistry Reviews, 2019, 380, 83-102.	18.8	166
33	Synthesis, crystal structure and characterizations of a new diphosphate $\text{Rb}_2\text{CaP}_2\text{O}_7$. Journal of Alloys and Compounds, 2018, 744, 370-374.	5.5	13
34	Nonlinear Optical Crystal $\text{Rb}_4\text{Sn}_3\text{Cl}_2\text{Br}_8$: Synthesis, Structure, and Characterization. Crystal Growth and Design, 2018, 18, 380-385.	3.0	22
35	Synthesis, Structure, and Properties of the Non-Centrosymmetric Compound $\text{LiNaRbB}_5\text{O}_8(\text{OH})_2$. Crystal Growth and Design, 2018, 18, 5745-5749.	3.0	2
36	Two Novel Deep-Ultraviolet Nonlinear Optical Crystals with Shorter Phase-Matching Second Harmonic Generation than $\text{KBe}_2\text{BO}_3\text{F}_2$: A First-Principles Prediction (Phys. Status Solidi RRL 9/2018). Physica Status Solidi - Rapid Research Letters, 2018, 12, 1870330.	2.4	0

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37	Zero Linear Compressibility in Nondense Borates with a α -BaStool-Like Structure. <i>Advanced Materials</i> , 2018, 30, e1801313.	21.0	22
38	Two Novel Deep-Ultraviolet Nonlinear Optical Crystals with Shorter Phase-Matching Second Harmonic Generation than $\text{KBe}_2\text{BO}_3\text{F}_2$: A First-Principles Prediction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800276.	2.4	15
39	An alkaline tin(II) halide compound $\text{Na}_3\text{Sn}_2\text{F}_6\text{Cl}$: Synthesis, structure, and characterization. <i>Journal of Solid State Chemistry</i> , 2017, 248, 104-108.	2.9	7
40	High mechanical strength in $\text{Zn}_4\text{B}_6\text{O}_{13}$ with an unique sodalite-cage structure. <i>RSC Advances</i> , 2017, 7, 2038-2043.	3.6	7
41	Structure and Characterization of a Zero-Dimensional Alkali Tin Dihalides Compound $\text{Cs}_3\text{Sn}_3\text{F}_2\text{Cl}_7$ with the $[\text{Sn}_2\text{F}_2\text{Cl}_4]^{2+}$ Clusters. <i>Inorganic Chemistry</i> , 2017, 56, 3081-3086.	4.0	9
42	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
43	Rational Design of Deep-Ultraviolet Nonlinear Optical Materials in Fluorooxoborates: Toward Optimal Planar Configuration. <i>Chemistry of Materials</i> , 2017, 29, 7098-7102.	6.7	136
44	Wide band gap design of new chalcogenide compounds: KSrPS_4 and CsBaAsS_4 . <i>RSC Advances</i> , 2017, 7, 38044-38051.	3.6	20
45	$\text{AZn}_2\text{BO}_3\text{X}_2$ (A = K, Rb, NH_4 ; X = Cl, Br): New Members of KBBF Family Exhibiting Large SHG Response and the Enhancement of Layer Interaction by Modified Structures. <i>Chemistry of Materials</i> , 2016, 28, 9122-9131.	6.7	134
46	Thermal Expansion and Second Harmonic Generation Response of the Tungsten Bronze $\text{Pb}_2\text{AgNb}_5\text{O}_{15}$. <i>Inorganic Chemistry</i> , 2016, 55, 2864-2869.	4.0	10
47	$\text{Cs}_3\text{W}_3\text{PO}_{13}$: A Tungsten Phosphate with One-Dimensional Zigzag Tunnels Exhibiting Strongly Anisotropic Thermal Expansion. <i>Inorganic Chemistry</i> , 2016, 55, 5113-5115.	4.0	2
48	Trigonal Planar $[\text{HgSe}_3]^{4-}$ Unit: A New Kind of Basic Functional Group in IR Nonlinear Optical Materials with Large Susceptibility and Physicochemical Stability. <i>Journal of the American Chemical Society</i> , 2016, 138, 6135-6138.	13.7	168
49	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
50	High pressure behaviour and elastic properties of a dense inorganic-organic framework. <i>Dalton Transactions</i> , 2016, 45, 4303-4308.	3.3	26
51	Syntheses, crystal structures and physical properties of three new chalcogenides: $\text{NaGaGe}_3\text{Se}_8$, $\text{K}_3\text{Ga}_3\text{Ge}_7\text{S}_{20}$, and $\text{K}_3\text{Ga}_3\text{Ge}_7\text{Se}_{20}$. <i>Dalton Transactions</i> , 2016, 45, 532-538.	3.3	13
52	Negative linear compressibility in a crystal of BiB_3O_6 . <i>Scientific Reports</i> , 2015, 5, 13432.	3.3	28
53	Isotropic Negative Area Compressibility over Large Pressure Range in Potassium Beryllium Fluoroborate and its Potential Applications in Deep Ultraviolet Region. <i>Advanced Materials</i> , 2015, 27, 4851-4857.	21.0	52
54	$\text{K}_5\text{Mo}_4\text{O}_{14}\text{F}$: A Novel Fluorinated Polyoxomolybdate and Its Structural Stability. <i>Inorganic Chemistry</i> , 2015, 54, 6066-6068.	4.0	7

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55	Tailored Synthesis of a Nonlinear Optical Phosphate with a Short Absorption Edge. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4217-4221.	13.8	205
56	Beryllium-Free $\text{Rb}_3\text{Al}_3\text{B}_3\text{O}_{10}\text{F}$ with Reinforced Interlayer Bonding as a Deep-Ultraviolet Nonlinear Optical Crystal. <i>Journal of the American Chemical Society</i> , 2015, 137, 2207-2210.	13.7	237
57	A study on $\text{K}_2\text{SbF}_2\text{Cl}_3$ as a new mid-IR nonlinear optical material: new synthesis and excellent properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9588-9593.	5.5	41
58	First-Principles Evaluation of the Alkali and/or Alkaline Earth Beryllium Borates in Deep Ultraviolet Nonlinear Optical Applications. <i>ACS Photonics</i> , 2015, 2, 1183-1191.	6.6	117
59	$\text{BaGa}_2\text{SnSe}_6$: a new phase-matchable IR nonlinear optical material with strong second harmonic generation response. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10998-11004.	5.5	54
60	Broad Negative Thermal Expansion Operation-Temperature Window Achieved by Adjusting Fe-Fe Magnetic Exchange Coupling in $\text{La}(\text{Fe},\text{Si})_{13}$ Compounds. <i>Inorganic Chemistry</i> , 2015, 54, 7868-7872.	4.0	9
61	The mechanism for the nonlinear optical properties in $\text{La}_9\text{Na}_3\text{B}_8\text{O}_{27}$, $\text{La}_2\text{Na}_3\text{B}_3\text{O}_9$ and $\text{La}_2\text{CaB}_{10}\text{O}_{19}$: <i>ab initio</i> studies. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 405501.	1.8	7
62	Development of nonlinear optical materials promoted by density functional theory simulations. <i>International Journal of Modern Physics B</i> , 2014, 28, 1430018.	2.0	27
63	First-principles materials applications and design of nonlinear optical crystals. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 253001.	2.8	201
64	$\text{Ca}_3\text{Na}_4\text{LiBe}_4\text{B}_{10}\text{O}_{24}\text{F}$: A New Beryllium Borate with a Unique Beryl Borate $\text{[Be}_8\text{B}_{16}\text{O}_{40}\text{F}_2]$ Layer Intra-bridged by $[\text{B}_{12}\text{O}_{24}]$ Groups. <i>Inorganic Chemistry</i> , 2014, 53, 8197-8199.	4.0	18
65	$\text{A}_2\text{Bi}_5\text{O}_{15}$ ($\text{A} = \text{K}$ or Rb): two new promising nonlinear optical materials containing $[\text{B}_3\text{O}_9]^{3-}$ bridging anionic groups. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4057-4062.	5.5	59
66	Beryllium-free $\text{Li}_4\text{Sr}(\text{BO}_3)_2$ for deep-ultraviolet nonlinear optical applications. <i>Nature Communications</i> , 2014, 5, 4019.	12.8	384
67	Deep-Ultraviolet Transparent Phosphates $\text{RbBa}_2(\text{PO}_3)_5$ and $\text{Rb}_2\text{Ba}_3(\text{P}_2\text{O}_7)_2$ Show Nonlinear Optical Activity from Condensation of $[\text{PO}_4]^{3-}$ Units. <i>Journal of the American Chemical Society</i> , 2014, 136, 8560-8563.	13.7	297
68	$\text{Ag}_3\text{Ga}_3\text{SiSe}_8$: a new infrared nonlinear optical material with a chalcopyrite structure. <i>CrystEngComm</i> , 2014, 16, 6836.	2.6	32