

Pifu Gong

List of Publications by Year in descending order

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68
papers

3,759
citations

186265

28
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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	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
2	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
3	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
4	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
5	First-principles materials applications and design of nonlinear optical crystals. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 253001.	2.8	201
6	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
7	Recent advances and future perspectives on infrared nonlinear optical metal halides. <i>Coordination Chemistry Reviews</i> , 2019, 380, 83-102.	18.8	166
8	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
9	$\text{AZn}_2\text{BO}_3\text{X}_2$ (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
10	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
11	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
12	Nitrate nonlinear optical crystals: A survey on structure-performance relationships. <i>Coordination Chemistry Reviews</i> , 2019, 400, 213045.	18.8	95
13	One-Pair Enhanced Birefringence in an Alkaline Earth Metal Tin(II) Phosphate $\text{BaSn}_2(\text{PO}_4)_2$. <i>Chemistry - A European Journal</i> , 2019, 25, 5648-5651.	3.3	95
14	Inorganic planar π -conjugated groups in nonlinear optical crystals: review and outlook. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 839-852.	6.0	93
15	Enhancing Photoluminescence Quantum Yield in 0D Metal Halides by Introducing Water Molecules. <i>Advanced Functional Materials</i> , 2020, 30, 2002468.	14.9	89
16	$\text{LiZn}(\text{OH})\text{CO}_3$: 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
17	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.	4.6	82
18	$\text{Li}_2\text{Cs}_7\text{O}_{10}(\text{OH})_4$: A Deep-Ultraviolet Nonlinear-Optical Mixed-Alkaline Borate Constructed by Unusual Heptaborate Anions. <i>Inorganic Chemistry</i> , 2019, 58, 1755-1758.	4.0	74

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19	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
20	$A_{2}B_{5}O_{15}$ ($A = K^{+}$ or Rb^{+}): two new promising nonlinear optical materials containing $[K_{3}O_{9}]^{3-}$ bridging anionic groups. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4057-4062.	5.5	59
21	$BaGa_{2}SnSe_{6}$: 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
22	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
23	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
24	A study on $K_{2}SbF_{2}Cl_{3}$ 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
25	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
26	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.	13.7	33
27	$Ag_{3}Ga_{3}SiSe_{8}$: a new infrared nonlinear optical material with a chalcopyrite structure. <i>CrystEngComm</i> , 2014, 16, 6836.	2.6	32
28	Negative linear compressibility in a crystal of \pm - $BiB_{3}O_{6}$. <i>Scientific Reports</i> , 2015, 5, 13432.	3.3	28
29	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
30	High pressure behaviour and elastic properties of a dense inorganic-organic framework. <i>Dalton Transactions</i> , 2016, 45, 4303-4308.	3.3	26
31	Nonlinear Optical Crystal $Rb_{4}Sn_{3}Cl_{2}Br_{8}$: Synthesis, Structure, and Characterization. <i>Crystal Growth and Design</i> , 2018, 18, 380-385.	3.0	22
32	Zero Linear Compressibility in Nondense Borates with a α - $Lu_{2}B_{2}O_{7}$ -Like Structure. <i>Advanced Materials</i> , 2018, 30, e1801313.	21.0	22
33	Wide band gap design of new chalcogenide compounds: $KSrPS_{4}$ and $CsBaAsS_{4}$. <i>RSC Advances</i> , 2017, 7, 38044-38051.	3.6	20
34	$KNa_{4}B_{2}P_{3}O_{13}$: A Deep-Ultraviolet Transparent Borophosphate Exhibiting Second-Harmonic Generation Response. <i>Inorganic Chemistry</i> , 2019, 58, 8918-8921.	4.0	19
35	$Ca_{3}Na_{4}LiBe_{4}B_{10}O_{24}F$: A New Beryllium Borate with a Unique Beryl Borate $\langle \tilde{z} \rangle^{2+} [Be_{8}B_{16}O_{40}F_{2}]$ Layer Intrabridged by $[B_{12}O_{24}]$ Groups. <i>Inorganic Chemistry</i> , 2014, 53, 8197-8199.	4.0	18
36	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

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37	Deepâ€Ultraviolet Nonlinearâ€Optical vanâ€derâ€Waals Beryllium Borates**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16680-16686.	13.8	17
38	Investigation into Structural Variation from 3D to 1D and Strong Second Harmonic Generation of the $AHgPS_4$ ($A^{sup} = Na^{sup}, K^{sup}, Rb^{sup}$), <i>Tj ETQq0 0 0 rgBT /00erlock 10 Tf 50 69</i>	10.0	10
39	Two Novel Deepâ€Ultraviolet Nonlinear Optical Crystals with Shorter Phaseâ€Matching Second Harmonic Generation than $KBe_2BO_3F_2$: A Firstâ€Principles Prediction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800276.	2.4	15
40	Synthesis and structure of a new mixed metal iodate $Ba_3Ga_2(IO_3)_{12}$. <i>CrystEngComm</i> , 2019, 21, 4981-4986.	2.6	14
41	Syntheses, crystal structures and physical properties of three new chalcogenides: $NaGaGe_3Se_8$, $K_3Ga_3Ge_7S_{20}$, and $K_3Ga_3Ge_7Se_{20}$. <i>Dalton Transactions</i> , 2016, 45, 532-538.	3.3	13
42	Synthesis, crystal structure and characterizations of a new diphosphate $Rb_2CaP_2O_7$. <i>Journal of Alloys and Compounds</i> , 2018, 744, 370-374.	5.5	13
43	An unprecedented planar π -conjugated $[B_2P_5]^{5+}$ group with ultra-large birefringence and nonlinearity: an <i>in ab initio</i> study. <i>Chemical Communications</i> , 2020, 56, 643-646.	4.1	13
44	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
45	$NaGa_3O_9F$: a new alkali metal gallium iodate combined with IO_3^{2-} and IO_3F^{2-} units. <i>Dalton Transactions</i> , 2021, 50, 11562-11567.	3.3	13
46	Selenite bromide nonlinear optical materials $Pb_2GaF_2(SeO_3)_2Br$ and $Pb_2NbO_2(SeO_3)_2Br$: synthesis and characterization. <i>Dalton Transactions</i> , 2020, 49, 14046-14051.	3.3	12
47	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
48	Structural Evolution in $BaSn_2F_5X$ ($X = Cl, Br, I$): A Family of Alkaline Earth Metal Tin Mixed Halides. <i>Inorganic Chemistry</i> , 2017, 56, 13593-13599.	4.0	11
49	Thermal Expansion and Second Harmonic Generation Response of the Tungsten Bronze $Pb_2AgNb_5O_{15}$. <i>Inorganic Chemistry</i> , 2016, 55, 2864-2869.	4.0	10
50	Broad Negative Thermal Expansion Operation-Temperature Window Achieved by Adjusting Feâ€Fe Magnetic Exchange Coupling in $La(Fe,Si)_{13}$ Compounds. <i>Inorganic Chemistry</i> , 2015, 54, 7868-7872.	4.0	9
51	Structure and Characterization of a Zero-Dimensional Alkali Tin Dihalides Compound $Cs_3Sn_3F_2Cl_7$ with the $[Sn_2F_2Cl_4]^{2+}$ Clusters. <i>Inorganic Chemistry</i> , 2017, 56, 3081-3086.	4.0	9
52	$M_2(SeO_3)F_2$ ($M = Zn, Cd$): understanding the structure directing effect of $[SeO_3]^{2-}$ groups on constructing ordered oxyfluorides. <i>CrystEngComm</i> , 2019, 21, 2485-2489.	2.6	9
53	$LiZn(OH)CO_3$: A Deepâ€Ultraviolet Nonlinear Optical Hydroxycarbonate Designed from a Diamondâ€like Structure. <i>Angewandte Chemie</i> , 2021, 133, 13686-13690.	2.0	9
54	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

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55	ASbF3Cl (A = Rb, Cs): Structural Evolution from Centrosymmetry to Noncentrosymmetry. <i>Crystal Growth and Design</i> , 2019, 19, 1874-1879.	3.0	8
56	K5Mo4O14F: A Novel Fluorinated Polyoxomolybdate and Its Structural Stability. <i>Inorganic Chemistry</i> , 2015, 54, 6066-6068.	4.0	7
57	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, 485501.	1.8	7
58	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
59	High mechanical strength in $\text{Zn}_4\text{B}_6\text{O}_{13}$ with a unique sodalite-cage structure. <i>RSC Advances</i> , 2017, 7, 2038-2043.	3.6	7
60	Centrosymmetric $\text{Rb}[\text{Te}_2\text{O}_4(\text{OH})_5]$ and noncentrosymmetric $\text{K}_2[\text{Te}_3\text{O}_8(\text{OH})_4]$: metal tellurates with corner and edge-sharing $(\text{Te}_4\text{O}_{18})^{12-}$ anion groups. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2628-2636.	6.0	7
61	Hydrogen-Bond-Assisted Reinforcement of Interlayer Connections in $\text{Zn}_2\text{BO}_3\text{X}_2\text{H}_2\text{O}$ (X = Cl, Br): Two UV Nonlinear Optical Crystals with KBBF-Type Structure. <i>Inorganic Chemistry</i> , 2020, 59, 7789-7794.	4.0	6
62	$\text{Na}_4\text{CdGe}_2\text{S}_7$: A Sodium-Rich Quaternary Wide-Band-Gap Chalcogenide with Two-Dimensional $[\text{Ge}_2\text{CdS}_7]^{2-}$ Layers. <i>Inorganic Chemistry</i> , 2020, 59, 16132-16136.	4.0	5
63	Deep-Ultraviolet Nonlinear Optical van der Waals Beryllium Borates**. <i>Angewandte Chemie</i> , 2021, 133, 16816-16822.	2.0	4
64	$\text{AZn}_4(\text{OH})_4(\text{C}_3\text{N}_3\text{O}_3)_2$ (A =) $\text{Tj ETQq0 0 0 rgBT /Overlock}$ <i>Inorganic Chemistry</i> , 2021, 60, 10890-10894.	4.0	4
65	$\text{Cs}_3\text{W}_3\text{PO}_{13}$: A Tungsten Phosphate with One-Dimensional Zigzag Tunnels Exhibiting Strongly Anisotropic Thermal Expansion. <i>Inorganic Chemistry</i> , 2016, 55, 5113-5115.	4.0	2
66	Synthesis, Structure, and Properties of the Non-Centrosymmetric Compound $\text{LiNaRbB}_5\text{O}_8(\text{OH})_2$. <i>Crystal Growth and Design</i> , 2018, 18, 5745-5749.	3.0	2
67	A new IO_3 group constructed from IO_3 and IO_5 anion units in $\text{Cs}_3[\text{Ga}_2\text{O}(\text{IO}_3)(\text{IO}_3)_4(\text{HIO}_3)_2]$. <i>CrystEngComm</i> , 2021, 24, 77-82.		2
68	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). <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1870330.	2.4	0