Sangen Zhao

List of Publications by Year
in descending order

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105 papers	5,847 citations	76196 40 h-index	79541 73 g-index
114 all docs	114 docs citations	114 times ranked	2755 citing authors

#	Article	IF	Citations
1	Nonpolar Na ₁₀ Cd(NO ₃) ₄ (SO ₃ S) ₄ Exhibits a Large Second-Harmonic Generation. CCS Chemistry, 2022, 4, 526-531.	4.6	43
2	A Hybrid Halide Perovskite Birefringent Crystal. Angewandte Chemie - International Edition, 2022, 61, .	7.2	37
3	CsY(SO₄)₂Â·4H₂O: A Deep-Ultraviolet Birefringent Crystal Induced by an Edge-Sharing Connection. Inorganic Chemistry, 2022, 61, 4468-4475.	1.9	11
4	A Hybrid Halide Perovskite Birefringent Crystal. Angewandte Chemie, 2022, 134, .	1.6	6
5	Recent Development of Non-Ï€-Conjugated Deep Ultraviolet Nonlinear Optical Materials. Chemistry of Materials, 2022, 34, 5-28.	3.2	47
6	Maximizing the linear and nonlinear optical responses of alkaline tricyanomelaminate. Fundamental Research, 2022, , .	1.6	5
7	Noncentrosymmetric K2Mn3(SO4)3F2Â·4H2O and Rb2Mn3(SO4)3F2Â·2H2O with pseudo-KTP structures. Chinese Chemical Letters, 2021, 32, 263-265.	4.8	22
8	A new nonlinear optical sulfate of layered structure: Cs2Zn2(SO4)3. Inorganic Chemistry Communication, 2021, 124, 108390.	1.8	13
9	An Antimony(III) Fluoride Oxalate with Large Birefringence. Chemistry - A European Journal, 2021, 27, 4557-4560.	1.7	34
10	Chiral Leadâ€Free Hybrid Perovskites for Selfâ€Powered Circularly Polarized Light Detection. Angewandte Chemie, 2021, 133, 8496-8499.	1.6	23
11	Chiral Leadâ€Free Hybrid Perovskites for Selfâ€Powered Circularly Polarized Light Detection. Angewandte Chemie - International Edition, 2021, 60, 8415-8418.	7.2	144
12	An organicâ€“inorganic hybrid birefringent material with diverse functional groups. Chemical Communications, 2021, 57, 6668-6671.	2.2	18
13	A Deepâ€UV Nonlinear Optical Borosulfate with Incommensurate Modulations. Angewandte Chemie, 2021, 133, 11558-11564.	1.6	11
14	A Deepâ€UV Nonlinear Optical Borosulfate with Incommensurate Modulations. Angewandte Chemie - International Edition, 2021, 60, 11457-11463.	7.2	37
15	Cs2ZnSn3S8: A Sulfide Compound Realizes a Large Birefringence by Modulating the Dimensional Structure. Inorganic Chemistry, 2021, 60, 9248-9253.	1.9	17
16	A Nonlinear Optical Switchable Sulfate of Ultrawide Bandgap. CCS Chemistry, 2021, 3, 2298-2306.	4.6	46
17	Non-Ï€-Conjugated Deep-Ultraviolet Nonlinear Optical Crystal K₂Zn₃(SO₄)(HSO₄)₂F₄. Journal of Physical Chemistry Letters, 2021, 12, 8280-8284.	2.1	18
18	2D van der Waals Layered [C(NH₂)₃]₂SO₃S Exhibits Desirable UV Nonlinear-Optical Trade-Off. Inorganic Chemistry, 2021, 60, 14544-14549.	1.9	18

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19	A New Nonlinear Optical Material withÂN(CN)2â€•Anion. Chemistry - A European Journal, 2021, , .	1.7	2
20	Pushing KTiOPO₄-like Nonlinear Optical Sulfates into the Deep-Ultraviolet Spectral Region. Inorganic Chemistry, 2021, 60, 18950-18956.	1.9	7
21	Structure-property relationship in nonlinear optical materials with Ï€-conjugated CO3 triangles. Coordination Chemistry Reviews, 2020, 407, 213152.	9.5	85
22	A Potential Sn-Based Hybrid Perovskite Ferroelectric Semiconductor. Journal of the American Chemical Society, 2020, 142, 1159-1163.	6.6	72
23	An Exceptional Peroxide Birefringent Material Resulting from dâ€“Ï€ Interactions. Angewandte Chemie, 2020, 132, 9500-9503.	1.6	14
24	An Exceptional Peroxide Birefringent Material Resulting from dâ€“Ï€ Interactions. Angewandte Chemie - International Edition, 2020, 59, 9414-9417.	7.2	60
25	Designing a Deep-UV Nonlinear Optical Fluorooxosilicophosphate. Journal of the American Chemical Society, 2020, 142, 6472-6476.	6.6	89
26	An Unprecedented Antimony(III) Borate with Strong Linear and Nonlinear Optical Responses. Angewandte Chemie - International Edition, 2020, 59, 7793-7796.	7.2	143
27	Two Covalent Ultraviolet Nonlinear Optical Crystals. Chemistry - an Asian Journal, 2020, 15, 775-779.	1.7	3
28	An Unprecedented Antimony(III) Borate with Strong Linear and Nonlinear Optical Responses. Angewandte Chemie, 2020, 132, 7867-7870.	1.6	35
29	Structural Origin of Thermally Induced Second Harmonic Generation Enhancement in RbNaMgP₂O₇. Chemistry of Materials, 2019, 31, 9843-9849.	3.2	18
30	An Uncommon Hypervalent Fluorooxosilicophosphate. Chemistry - an Asian Journal, 2019, 14, 4174-4178.	1.7	4
31	Two Non-Ï€-Conjugated Deep-UV Nonlinear Optical Sulfates. Journal of the American Chemical Society, 2019, 141, 3833-3837.	6.6	183
32	Abrupt Structural Transformation in Asymmetric ABPO₄F (A = K, Rb, Cs). Inorganic Chemistry, 2019, 58, 1733-1737.	1.9	18
33	A beryllium-free deep-UV nonlinear optical material CsNaMgP₂O₇with honeycomb-like topological layers. Journal of Materials Chemistry C, 2018, 6, 3910-3916.	2.7	48
34	The role of cations in second-order nonlinear optical materials based on Ï€-conjugated [BO 3] 3â^' groups. Coordination Chemistry Reviews, 2018, 366, 1-28.	9.5	145
35	Non-Centrosymmetric RbNaMgP₂O₇ with Unprecedented Thermo-Induced Enhancement of Second Harmonic Generation. Journal of the American Chemical Society, 2018, 140, 1592-1595.	6.6	200
36	In Situ Di-, Piezo-, Ferroelectric Properties and Domain Configurations of Pb(Sc_{1/2}Nb_{1/2})O₃â€“Pb(Mg_{1/3}Nb_{2/3})O₃â€“PbTiO₃ Ferroelectric Crystals. Crystal Growth and Design, 2018, 18, 145-151.	3.9	19

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37	Crystal Growth and Optical Properties of Beryllium-Free Nonlinear Optical Crystal K₃Ba₃Li₂Al₄B₆O₂₀F. Crystal Growth and Design, 2018, 18, 1168-1172.	1.4	23
38	Broadband white-light emission with a high color rendering index in a two-dimensional organicâ€“inorganic hybrid perovskite. Journal of Materials Chemistry C, 2018, 6, 1171-1175.	2.7	86
39	Mixing Halogens To Assemble an Allâ€Inorganic Layered Perovskite with Warm Whiteâ€Light Emission. Chemistry - A European Journal, 2018, 24, 9243-9246.	1.7	17
40	Highly efficient white-light emission in a polar two-dimensional hybrid perovskite. Chemical Communications, 2018, 54, 4053-4056.	2.2	94
41	An optoelectronic duple bistable phosphate with ultrahigh thermal stability. Journal of Materials Chemistry C, 2018, 6, 388-392.	2.7	3
42	Nonlinear Optical Crystal Rb₄Sn₃Cl₂Br₈: Synthesis, Structure, and Characterization. Crystal Growth and Design, 2018, 18, 380-385.	1.4	22
43	Li₈NaRb₃(SO₄)₆Â·2H₂O as a new sulfate deep-ultraviolet nonlinear optical material. Journal of Materials Chemistry C, 2018, 6, 12240-12244.	2.7	66
44	Synthesis, Structure, and Properties of the Non-Centrosymmeteric Compound LiNaRbB₅O₈(OH)₂. Crystal Growth and Design, 2018, 18, 5745-5749.	1.4	2
45	A Langbeinite-Type Yttrium Phosphate LiCs₂Y₂(PO₄)₃. Inorganic Chemistry, 2018, 57, 13087-13091.	1.9	26
46	Physical Properties of a Promising Nonlinear Optical Crystal K₃Ba₃Li₂Al₄B₆O₂₀F. Crystal Growth and Design, 2018, 18, 7368-7372.	1.4	10
47	Bilayered Hybrid Perovskite Ferroelectric with Giant Two-Photon Absorption. Journal of the American Chemical Society, 2018, 140, 6806-6809.	6.6	185
48	Alloying nâ€Butylamine into CsPbBr₃ To Give a Twoâ€Dimensional Bilayered Perovskite Ferroelectric Material. Angewandte Chemie, 2018, 130, 8272-8275.	1.6	26
49	Alloying nâ€Butylamine into CsPbBr₃ To Give a Twoâ€Dimensional Bilayered Perovskite Ferroelectric Material. Angewandte Chemie - International Edition, 2018, 57, 8140-8143.	7.2	135
50	N-Methylpyrrolidinium hydrogen tartrate (NMPHT): an above-room-temperature orderâ€“disorder molecular switchable dielectric material. RSC Advances, 2017, 7, 24368-24373.	1.7	11
51	Cooperation of Three Chromophores Generates the Waterâ€Resistant Nitrate Nonlinear Optical Material Bi₃TeO₆OH(NO₃)₂. Angewandte Chemie - International Edition, 2017, 56, 540-544.	7.2	91
52	Cooperation of Three Chromophores Generates the Waterâ€Resistant Nitrate Nonlinear Optical Material Bi₃TeO₆OH(NO₃)₂. Angewandte Chemie, 2017, 129, 555-559.	1.6	12
53	Exceptional bi-step switching of quadratic nonlinear optical properties in a one-dimensional channel compound. Chemical Communications, 2017, 53, 7669-7672.	2.2	27
54	A semi-conductive organicâ€“inorganic hybrid emits pure white light with an ultrahigh color rendering index. Journal of Materials Chemistry C, 2017, 5, 4731-4735.	2.7	55

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55	(2-Methylpiperidine)PbI3: an ABX3-type organicâ€“inorganic hybrid chain compound and its semiconducting nanowires with photoconductive properties. Journal of Materials Chemistry C, 2017, 5, 11466-11471.	2.7	20
56	LiGaGe₂S₆: A Chalcogenide with Good Infrared Nonlinear Optical Performance and Low Melting Point. Inorganic Chemistry, 2017, 56, 13267-13273.	1.9	51
57	A new phase-matchable nonlinear optical silicate: Rb₂ZnSi₃O₈. Journal of Materials Chemistry C, 2017, 5, 11025-11029.	2.7	21
58	A New KBBF-Family Nonlinear Optical Material with Strong Interlayer Bonding. Crystal Growth and Design, 2017, 17, 4422-4427.	1.4	42
59	Highly Fluorescent and Stable Ruthenium Unit/Layered Double Hydroxide Composite with Sensitive Detection of Cr₂O₇^{2â^'}. ChemistrySelect, 2017, 2, 6218-6222.	0.7	3
60	Structurally stable borate as a UV nonlinear optical material. Inorganic Chemistry Communication, 2017, 84, 127-130.	1.8	15
61	Broad-Band-Emissive Organicâ€“Inorganic Hybrid Semiconducting Nanowires Based on an ABX₃-Type Chain Compound. Inorganic Chemistry, 2017, 56, 8776-8781.	1.9	26
62	A Photoferroelectric Perovskiteâ€Type Organometallic Halide with Exceptional Anisotropy of Bulk Photovoltaic Effects. Angewandte Chemie - International Edition, 2016, 55, 6545-6550.	7.2	175
63	Order-Disorder Phase Transition, Anisotropic and Switchable Dielectric Constants Induced by Freeze of the Wheel-Like Motion in a Hexafluorosilicate-Based Crystal. ChemistrySelect, 2016, 1, 5310-5315.	0.7	5
64	Reversible phase transition driven by orderâ€“disorder transformations of metal-halide moieties in [(C₆H₁₄)NH₂]₂Â·CuBr₄. Journal of Materials Chemistry C, 2016, 4, 7537-7540.	2.7	44
65	Temperature-triggered orderâ€“disorder phase transition in molecular-ionic material N-butyldiethanolammonium picrate monohydrate. RSC Advances, 2016, 6, 69546-69550.	1.7	7
66	A Highâ€Temperature Orderâ€“Disorder Phase Transition Coupled With Conformational Change in the Hybrid Material [C₆H₁₃NH]₂â‹…ZnBr₄. Chemistry - an Asian Journal, 2016, 11, 2876-2881.	1.7	15
67	Rational Design and Syntheses of Molecular Phase Transition Crystal Materials. Crystal Growth and Design, 2016, 16, 6685-6695.	1.4	26
68	Polarization Switching Induced by Slowing the Dynamic Swinglike Motion in a Flexible Organic Dielectric. Journal of Physical Chemistry C, 2016, 120, 27571-27576.	1.5	14
69	Deep-Ultraviolet Transparent Cs₂LiPO₄ Exhibits an Unprecedented Second Harmonic Generation. Chemistry of Materials, 2016, 28, 7110-7116.	3.2	130
70	Chiral polyoxomolybdate-based hybrid compounds obtained by spontaneous resolution: syntheses, structures and non-linear optical properties. New Journal of Chemistry, 2016, 40, 10316-10324.	1.4	8
71	Strong Nonlinear-Optical Response in the Pyrophosphate CsLiCdP₂O₇ with a Short Cutoff Edge. Inorganic Chemistry, 2016, 55, 11626-11629.	1.9	55
72	A Photoferroelectric Perovskiteâ€Type Organometallic Halide with Exceptional Anisotropy of Bulk Photovoltaic Effects. Angewandte Chemie, 2016, 128, 6655-6660.	1.6	38

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73	Three Highly Fluorescent Iridium(III) Unit Based Coordination Polymers: Coordinated Solvent-Dependent Photoluminescence. Crystal Growth and Design, 2016, 16, 406-411.	1.4	9
74	An organicâ€“inorganic hybrid co-crystal complex as a high-performance solid-state nonlinear optical switch. Journal of Materials Chemistry C, 2016, 4, 266-271.	2.7	43
75	Designing a Beryllium-Free Deep-Ultraviolet Nonlinear Optical Material without a Structural Instability Problem. Journal of the American Chemical Society, 2016, 138, 2961-2964.	6.6	220
76	KMg6(P2O7)2P3O10: A novel phosphate with two distinct anions. Inorganic Chemistry Communication, 2016, 66, 83-86.	1.8	23
77	Reversible phase transition triggered by orderâ€“disorder transformations and distortions in dipropylammonium<scp>d</scp>-(+)-10-camphorsulfonate. CrystEngComm, 2016, 18, 2852-2856.	1.3	9
78	Reversible Phase Transition Triggered by Orderâ€“Disorder Transformation of Carboxyl Oxygen Atoms Coupled with Distinct Reorientations in [HN(C₄H₉)₃](fumrate)_{0.5}Â·(fumaric) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 532 Td	1.4	20
79	Tailored Synthesis of a Nonlinear Optical Phosphate with a Short Absorption Edge. Angewandte Chemie - International Edition, 2015, 54, 4217-4221.	7.2	205
80	A hostâ€“guest inclusion compound for reversible switching of quadratic nonlinear optical properties. Chemical Communications, 2015, 51, 2298-2300.	2.2	81
81	Beryllium-Free Rb₃Al₃B₃O₁₀F with Reinforced Interlayer Bonding as a Deep-Ultraviolet Nonlinear Optical Crystal. Journal of the American Chemical Society, 2015, 137, 2207-2210.	6.6	237
82	Hierarchical metalâ€“organic framework nanoflowers for effective CO₂transformation driven by visible light. Journal of Materials Chemistry A, 2015, 3, 15764-15768.	5.2	110
83	Orderâ€“disorder phase transition coupled with torsion in tri-n-butylammonium trichloroacetate (TBAT). Journal of Materials Chemistry C, 2015, 3, 6053-6057.	2.7	15
84	High-Performance Switching of Bulk Quadratic Nonlinear Optical Properties with Large Contrast in Polymer Films Based on Organic Hydrogen-Bonded Ferroelectrics. Chemistry of Materials, 2015, 27, 4493-4498.	3.2	49
85	ABX₃-Type Organicâ€“Inorganic Hybrid Phase Transition Material: 1-Pentyl-3-methylimidazolium Tribromoplumbate. Inorganic Chemistry, 2015, 54, 7136-7138.	1.9	41
86	Dibutylammonium Hydrogen Oxalate: An Above-Room-Temperature Orderâ€“Disorder Phase Transition Molecular Material. Crystal Growth and Design, 2015, 15, 5263-5268.	1.4	18
87	Construction of Interpenetrated Ruthenium Metalâ€“Organic Frameworks as Stable Photocatalysts for CO₂ Reduction. Inorganic Chemistry, 2015, 54, 8375-8379.	1.9	115
88	Dynamic Entangled Framework Based on an Iridiumâ€“Organic Unit Showing Reversible Luminescence Turn-On Sensing. Inorganic Chemistry, 2015, 54, 8872-8874.	1.9	22
89	Switchable Dielectric Phase Transition Induced by a Twisting Transformation in Diglycine Methanesulfonate. Chemistry - an Asian Journal, 2014, 9, 996-1000.	1.7	21
90	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.	2.7	81

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91	A sequentially switchable molecular dielectric material tuned by the stepwise ordering in diisopropylammonium trifluoromethanesulfonate. Journal of Materials Chemistry C, 2014, 2, 2341-2345.	2.7	56
92	Switchable dielectric behaviour associated with above room-temperature phase transition in N-isopropylbenzylammonium dichloroacetate (N-IPBADC). Journal of Materials Chemistry C, 2014, 2, 6134-6139.	2.7	37
93	Beryllium-free Li4Sr(BO3)2 for deep-ultraviolet nonlinear optical applications. Nature Communications, 2014, 5, 4019.	5.8	384
94	Deep-Ultraviolet Transparent Phosphates RbBa₂(PO₃)₅ and Rb₂Ba₃(P₂O₇)₂ Show Nonlinear Optical Activity from Condensation of [PO₄]^{3â€“} Units. Journal of the American Chemical Society, 2014, 136, 8560-8563.	6.6	297
95	A New UV Nonlinear Optical Material CsZn₂B₃O₇: ZnO₄ Tetrahedra Double the Efficiency of Second-Harmonic Generation. Inorganic Chemistry, 2014, 53, 2521-2527.	1.9	98
96	ZnTeMoO6: a strong second-harmonic generation material originating from three types of asymmetric building units. RSC Advances, 2013, 3, 14000.	1.7	39
97	A combination of multiple chromophores enhances second-harmonic generation in a nonpolar noncentrosymmetric oxide: CdTeMoO6. Journal of Materials Chemistry C, 2013, 1, 2906.	2.7	67
98	K6Li3Sc2B15O30: A new nonlinear optical crystal with a short absorption edge. CrystEngComm, 2012, 14, 5209.	1.3	40
99	K3YB6O12: A new nonlinear optical crystal with a short UV cutoff edge. Materials Research Bulletin, 2012, 47, 3810-3813.	2.7	45
100	Growth, thermophysical and electrical properties of the nonlinear optical crystal BPO₄. Crystal Research and Technology, 2012, 47, 391-396.	0.6	19
101	Preparation, structure, and photoluminescence properties of new layered borates KBaRE(B3O6)2 (REÂ=ÂY, Eu, and Tb). Solid State Sciences, 2012, 14, 305-310.	1.5	17
102	Growth and optical properties of Na3Gd2(BO3)3 crystal. Optical Materials, 2012, 34, 1464-1467.	1.7	8
103	The Î²-modification of trizinc borate phosphate, Zn₃(BO₃)(PO₄). Acta Crystallographica Section E: Structure Reports Online, 2011, 67, i3-i3.	0.2	8
104	Optical properties of the vacuum-ultraviolet nonlinear optical crystalâ€”BPO_4. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2236.	0.9	60
105	Ba3Y2B6O15, a novel cubic borate. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, i39-i41.	0.4	11