Zhe-Shuai Lin

List of Publications by Year in Descending Order

485 papers	17,703 citations	70 h-index	111 g-index
569 ext. papers	21,675 ext. citations	6.8 avg, IF	7.2 L-index

#	Paper	IF	Citations
485	SrZnSnSe4: A quaternary selenide with large second harmonic generation and birefringence. *Journal of Alloys and Compounds*, **2022**, 904, 163944	5.7	4
484	Two non-centrosymmetric scandium borate nonlinear optical crystals containing the B5O10 anion group. *Journal of Alloys and Compounds*, **2022**, 902, 163832	5.7	2
483	Pnictides: An emerging class of infrared nonlinear optical material candidates. *Journal of Alloys and Compounds*, **2022**, 901, 163384	5.7	1
482	Uncovering a Vital Band Gap Mechanism of Pnictides.. *Advanced Science*, **2022**, e2105787	13.6	2
481	Dangling Octahedra Enable Edge States in 2D Lead Halide Perovskites.. *Advanced Materials*, **2022**, e2201666	24	3
480	A new I3O93− group constructed from IO3− and IO55− anion units in Cs3[Ga2O(I3O9)(IO3)4(HIO3)]. *CrystEngComm*, **2021**, 24, 77-82	3.3	0
479	Highly polarized [GeOTe3] motif-driven structural order promotion and an enhanced second harmonic generation response in the new nonlinear optical oxytelluride Ba3Ge2O4Te3. *Journal of Materials Chemistry C*, **2021**, 10, 150-159	7.1	4
478	α-BaGa4Se7: a promising IR nonlinear optical crystal designed by predictable structural rearrangement. *Journal of Materials Chemistry C*, **2021**, 10, 96-101	7.1	9
477	Ca(TeO)(MO) (M = Mo, W): Mid-Infrared Nonlinear Optical Tellurates with Ultrawide Transparency Ranges and Superhigh Laser-Induced Damage Thresholds. *Inorganic Chemistry*, **2021**, 60, 18512-18520	5.1	1
476	Investigation into Structural Variation from 3D to 1D and Strong Second Harmonic Generation of the AHgPS (A = Na, K, Rb, Cs) Family. *Inorganic Chemistry*, **2021**, 60, 18370-18378	5.1	2
475	Two metal-free cyanurate crystals with a large optical birefringence resulting from the combination of π-conjugated units. *Dalton Transactions*, **2021**, 50, 17495-17498	4.3	3
474	Strong SHG Responses in a Beryllium-Free Deep-UV-Transparent Hydroxyborate via Covalent Bond Modification. *Angewandte Chemie - International Edition*, **2021**,	16.4	8
473	Strong SHG Responses in a Beryllium-Free Deep-UV-Transparent Hydroxyborate via Covalent Bond Modification. *Angewandte Chemie*, **2021**, 133, 27357	3.6	1
472	AZn(PO3)3 (A = K, Rb): Deep-Ultraviolet Nonlinear Optical Phosphates Derived from Synergy of a Unique [ZnO6] Octahedron and a [PO3]− Chain. *Crystal Growth and Design*, **2021**, 21, 2445-2452	3.5	3
471	Tunable White Light Emission in a Zero-Dimensional Organic–Inorganic Metal Halide Hybrid with Ultra-High Color Rendering Index. *Advanced Optical Materials*, **2021**, 9, 2002246	8.1	14
470	A comprehensive survey on nonlinear optical phosphates: Role of multicoordinate groups. *Coordination Chemistry Reviews*, **2021**, 431, 213692	23.2	15
469	Large Magnetocaloric Effect in LiKGd(BO) Crystal Featuring Sandwich-Like Three-Dimensional Framework. *Inorganic Chemistry*, **2021**, 60, 6796-6803	5.1	3

468	A Deep-UV Nonlinear Optical Borosulfate with Incommensurate Modulations. *Angewandte Chemie*, **2021**, 133, 11558-11564	3.6	5
467	Molecular Engineering toward an Enlarged Optical Band Gap in a Bismuth Sulfate via Homovalent Cation Substitution. *Inorganic Chemistry*, **2021**, 60, 5851-5859	5.1	3
466	Cd(IO)(IO)F□0.1CdO: A Nonlinear-Optical Crystal with the Introduction of Fluoride into Iodate Containing Both [IO] and [IO] Groups. *Inorganic Chemistry*, **2021**, 60, 6040-6046	5.1	2
465	A Deep-UV Nonlinear Optical Borosulfate with Incommensurate Modulations. *Angewandte Chemie - International Edition*, **2021**, 60, 11457-11463	16.4	13
464	Alloy Engineering of a Polar (Si,Ge)NO System for Controllable Second Harmonic Performance. *Inorganic Chemistry*, **2021**, 60, 7381-7388	5.1	1
463	From Centrosymmetry to Noncentrosymmetry: Tailoring the Structural Arrangements of Carbonates with Strong Nonlinear Optical Response through Partial Anion Substitution. *Advanced Optical Materials*, **2021**, 9, 2100594	8.1	4
462	Excellent performance of a cryogenic Nd:YAlO laser with low wavefront distortion based on zero thermal expansion. *Optics Letters*, **2021**, 46, 2425-2428	3	1
461	UV Solar-Blind-Region Phase-Matchable Optical Nonlinearity and Anisotropy in a □Conjugated Cation-Containing Phosphate. *Angewandte Chemie*, **2021**, 133, 14932-14936	3.6	12
460	Second harmonic generation of MoSi2N4-type layers. *Physical Review B*, **2021**, 103,	3.3	5
459	AXHg3P2S8 (A = Rb, Cs; X = Cl, Br): New Excellent Infrared Nonlinear Optical Materials with Mixed-Anion Chalcohalide Groups of Trigonal Planar [HgS2X]3□and Tetrahedral [HgS3X]5□ *Advanced Optical Materials*, **2021**, 9, 2100563	8.1	13
458	LiZn(OH)CO : A Deep-Ultraviolet Nonlinear Optical Hydroxycarbonate Designed from a Diamond-like Structure. *Angewandte Chemie - International Edition*, **2021**, 60, 13574-13578	16.4	24
457	Innentitelbild: UV Solar-Blind-Region Phase-Matchable Optical Nonlinearity and Anisotropy in a □Conjugated Cation-Containing Phosphate (Angew. Chem. 27/2021). *Angewandte Chemie*, **2021**, 133, 14842-14842	3.6	
456	UV Solar-Blind-Region Phase-Matchable Optical Nonlinearity and Anisotropy in a □Conjugated Cation-Containing Phosphate. *Angewandte Chemie - International Edition*, **2021**, 60, 14806-14810	16.4	29
455	LiZn(OH)CO3: A Deep-Ultraviolet Nonlinear Optical Hydroxycarbonate Designed from a Diamond-like Structure. *Angewandte Chemie*, **2021**, 133, 13686-13690	3.6	6
454	CsZrF4(IO3): The First Polar Zirconium Iodate with cis-[ZrO2F6] Polyhedra Inducing Optimized Balance of Large Band Gap and Second Harmonic Generation. *Chemistry of Materials*, **2021**, 33, 5555-5562	9.6	7
453	A2MoO2F3(IO2F2) (A = Rb, Cs): Strong Nonlinear Optical Responses and Enlarged Band Gaps through Fluorine Incorporation. *Chemistry of Materials*, **2021**, 33, 5700-5708	9.6	7
452	CsZnSnS: A Sulfide Compound Realizes a Large Birefringence by Modulating the Dimensional Structure. *Inorganic Chemistry*, **2021**, 60, 9248-9253	5.1	3
451	Deep-Ultraviolet Nonlinear-Optical van-der-Waals Beryllium Borates*. *Angewandte Chemie - International Edition*, **2021**, 60, 16680-16686	16.4	5

450	Deep-Ultraviolet Nonlinear-Optical van-der-Waals Beryllium Borates**. *Angewandte Chemie*, **2021**, 133, 16816-16822	3.6	3
449	La2SrB8O16: A new rare earth borate with [B8O20]16− groups exhibiting a deep ultraviolet cutoff edge. *Journal of Solid State Chemistry*, **2021**, 298, 122126	3.3	2
448	AZn(OH)(CNO) (A = Mg, Zn): Two Zn-Based Cyanurate Crystals with Various Cation Coordination and Large Birefringence. *Inorganic Chemistry*, **2021**, 60, 10890-10894	5.1	2
447	Highly Distorted [HgS] Motif-Driven Structural Symmetry Degradation and Strengthened Second-Harmonic Generation Response in the Defect Diamond-Like Chalcogenide HgPS. *ACS Applied Materials & Interfaces*, **2021**, 13, 37331-37338	9.5	11
446	Giant Optical Anisotropy in the UV-Transparent 2D Nonlinear Optical Material Sc(IO) (NO). *Angewandte Chemie - International Edition*, **2021**, 60, 3464-3468	16.4	54
445	Giant Optical Anisotropy in the UV-Transparent 2D Nonlinear Optical Material Sc(IO3)2(NO3). *Angewandte Chemie*, **2021**, 133, 3506-3510	3.6	23
444	Negative area compressibility in silver oxalate. *Journal of Materials Science*, **2021**, 56, 269-277	4.3	3
443	From AgGaS2 to AgHgPS4: vacancy defects and highly distorted HgS4 tetrahedra double-induced remarkable second-harmonic generation response. *Journal of Materials Chemistry C*, **2021**, 9, 1062-1068	7.1	9
442	A New Nonlinear Optical Selenide Crystal AgLiGa2Se4 with Good Comprehensive Performance in Mid-Infrared Region. *Advanced Optical Materials*, **2021**, 9, 2001856	8.1	10
441	Nonlinear Optical Oxythiophosphate Approaching the Good Balance with Wide Ultraviolet Transparency, Strong Second Harmonic Effect, and Large Birefringence. *Angewandte Chemie*, **2021**, 133, 6456-6460	3.6	5
440	Nonlinear Optical Oxythiophosphate Approaching the Good Balance with Wide Ultraviolet Transparency, Strong Second Harmonic Effect, and Large Birefringence. *Angewandte Chemie - International Edition*, **2021**, 60, 6386-6390	16.4	18
439	Nonlinear optical effects in two mercury cyanamide/guanidinium chlorides Hg3(NCN)2Cl2 and Hg2(C(NH2)3)Cl5. *Journal of Materials Chemistry C*, **2021**, 9, 967-974	7.1	2
438	Negative thermal expansion in one-dimension of a new double sulfate AgHo(SO4)2 with isolated SO4 tetrahedra. *Journal of Materials Science and Technology*, **2021**, 76, 111-121	9.1	20
437	The crystal growth and properties of novel magnetic double molybdate RbFe5(MoO4)7 with mixed Fe3+/Fe2+ states and 1D negative thermal expansion. *CrystEngComm*, **2021**, 23, 3297-3307	3.3	6
436	NaGaIOF: a new alkali metal gallium iodate combined with IO and IOF units. *Dalton Transactions*, **2021**, 50, 11562-11567	4.3	2
435	First chiral fluorinated lead vanadate selenite Pb(VOF)(VO)(SeO) with five asymmetric motifs and large optical properties. *Dalton Transactions*, **2021**, 50, 7238-7245	4.3	4
434	Facile syntheses of silver thioantimonates exhibiting second-harmonic generation responses and large birefringence. *Dalton Transactions*, **2021**, 50, 3568-3576	4.3	6
433	AgBi(SO)(IO): aliovalent substitution induces structure dimensional upgrade and second harmonic generation enhancement. *Chemical Communications*, **2021**, 57, 3712-3715	5.8	10

432	BaZnBe(BO)F: a novel zinc-beryllium borate with SBBO-type structure overcoming the polymorphism problem. *Dalton Transactions*, **2021**, 50, 2138-2142	4.3	5
431	BaCa(BO)F: Conjugation of BO in the planar pentagonal layer achieving large second harmonic generation of -borate. *Chemical Science*, **2021**, 12, 13897-13901	9.4	9
430	NaBi(IO): An Alkali-Metal Bismuth Iodate with Intriguing One-Dimensional [BiIO] Chains and Pressure-Induced Structural Transition. *Inorganic Chemistry*, **2021**, 60, 2893-2898	5.1	2
429	Role of Metal-Chloride Anions in Photoluminescence Regulations for Hybrid Metal Halides. *Journal of Physical Chemistry Letters*, **2021**, 12, 1918-1925	6.4	9
428	Large Second-Harmonic Response and Giant Birefringence of CeF(SO) Induced by Highly Polarizable Polyhedra. *Journal of the American Chemical Society*, **2021**, 143, 4138-4142	16.4	46
427	Regulating Guanidinium-Based Hybrid Materials for Ultraviolet Nonlinear Optical Applications by Hybrid Strength and Hybrid Pattern. *Inorganic Chemistry*, **2021**, 60, 3834-3842	5.1	7
426	Growth, Structure, and Properties of a Multifunctional Crystal PrCaBO. *Inorganic Chemistry*, **2021**, 60, 10895-10898	5.1	1
425	A3Te(Zn2Ge)Ge2O14 (A = Sr, Ba, and Pb): New Langasite Mid-infrared Nonlinear Optical Materials by Rational Chemical Substitution. *Chemistry of Materials*, **2021**, 33, 6012-6017	9.6	1
424	Non-Conjugated Deep-Ultraviolet Nonlinear Optical Crystal KZn(SO)(HSO)F. *Journal of Physical Chemistry Letters*, **2021**, 12, 8280-8284	6.4	4
423	Giant Second-Harmonic Generation Response and Large Band Gap in the Partially Fluorinated Mid-Infrared Oxide RbTeMoOF. *Journal of the American Chemical Society*, **2021**, 143, 12455-12459	16.4	22
422	A Congruent-Melting Mid-Infrared Nonlinear Optical Vanadate Exhibiting Strong Second-Harmonic Generation. *Angewandte Chemie*, **2021**, 133, 22621-22627	3.6	2
421	2D van der Waals Layered [C(NH)]SOS Exhibits Desirable UV Nonlinear-Optical Trade-Off. *Inorganic Chemistry*, **2021**, 60, 14544-14549	5.1	4
420	Synthesis and Characterizations of Two Tellurides BaGaTe and BaGaGeTe with Flexible Chain Structure. *Inorganic Chemistry*, **2021**, 60, 14793-14802	5.1	4
419	Novel van der Waals Deep-UV Nonlinear Optical Materials. *Chemistry - A European Journal*, **2021**, 27, 17268-17272	4.3	7
418	A Congruent-Melting Mid-Infrared Nonlinear Optical Vanadate Exhibiting Strong Second-Harmonic Generation. *Angewandte Chemie - International Edition*, **2021**, 60, 22447-22453	16.4	8
417	Nd2CaB10O19: A potential self-activated and self-frequency-doubling multifunctional crystal. *Journal of Solid State Chemistry*, **2021**, 304, 122558	3.3	1
416	Rb3In(SO4)3: a defluorinated mixed main-group metal sulfate for ultraviolet transparent nonlinear optical materials with a large optical band gap. *Journal of Materials Chemistry C*, **2021**, 9, 5124-5131	7.1	5
415	Breaking through the "3.0 eV wall" of energy band gap in mid-infrared nonlinear optical rare earth chalcogenides by charge-transfer engineering. *Materials Horizons*, **2021**, 8, 2330-2334	14.4	30

414	Layered oxide B2S2O9 with a deep-ultraviolet band gap and a strong and robust second-harmonic generation. *Physical Review B*, **2020**, 102,	3.3	14
413	Anomalous mechanical materials squeezing three-dimensional volume compressibility into one dimension. *Nature Communications*, **2020**, 11, 5593	17.4	6
412	Hydrogen-Bond-Assisted Reinforcement of Interlayer Connections in ZnBOXHO (X = Cl, Br): Two UV Nonlinear Optical Crystals with KBBF-Type Structure. *Inorganic Chemistry*, **2020**, 59, 7789-7794	5.1	3
411	Sb3+ Dopant and Halogen Substitution Triggered Highly Efficient and Tunable Emission in Lead-Free Metal Halide Single Crystals. *Chemistry of Materials*, **2020**, 32, 5327-5334	9.6	96
410	Functional Chalcogenide NaHgSnSe and KMnGeSe Exhibiting Flexible Chain Structure and Intriguing Birefringence Tunability. *Inorganic Chemistry*, **2020**, 59, 7614-7621	5.1	8
409	A new non-centrosymmetric Gd-based borate crystal RbSrGd(BO): growth, structure, and nonlinear optical and magnetic properties. *Dalton Transactions*, **2020**, 49, 9355-9361	4.3	7
408	Large nonlinear optical effect in tungsten bronze structures via Li/Na cross-substitutions. *Chemical Communications*, **2020**, 56, 8384-8387	5.8	1
407	Crystal growth, structural characteristics and electronic structure of Ba1-xPbxFe12O19 (x= 0.230.80) hexaferrites. *Journal of Alloys and Compounds*, **2020**, 844, 156036	5.7	11
406	AGa3F6(SeO3)2 (A = Rb, Cs): A New Type of Phase-Matchable Hexagonal Tungsten Oxide Material with Strong Second-Harmonic Generation Responses. *Chemistry of Materials*, **2020**, 32, 6906-6915	9.6	23
405	Helix-constructed polar rare-earth iodate fluoride as a laser nonlinear optical multifunctional material. *Chemical Science*, **2020**, 11, 7396-7400	9.4	8
404	Deep-ultraviolet nonlinear optical crystals by design: A computer-aided modeling blueprint from first principles. *Science China Materials*, **2020**, 63, 1597-1612	7.1	20
403	An Exceptional Peroxide Birefringent Material Resulting from dInteractions. *Angewandte Chemie* , **2020**, 132, 9500-9503	3.6	9
402	An Exceptional Peroxide Birefringent Material Resulting from d-Interactions. *Angewandte Chemie - International Edition*, **2020**, 59, 9414-9417	16.4	30
401	Mixed-metal thiophosphate CuCd3PS6: an infrared nonlinear optical material activated by its three-in-one tetrahedra-stacking architecture. *Journal of Materials Chemistry C*, **2020**, 8, 5020-5024	7.1	11
400	Two New Ferroborates with Three-Dimensional Framework and Wide Transmittance Window. *European Journal of Inorganic Chemistry*, **2020**, 2020, 1676-1682	2.3	1
399	Synthesis, Crystal Structure, and Optical Properties of the First Alkali Metal Rare-Earth Iodate Fluoride: Li2Ce(IO3)4F2. *Crystal Growth and Design*, **2020**, 20, 2135-2140	3.5	9
398	Flower-like cobalt carbide for efficient carbon dioxide conversion. *Chemical Communications*, **2020**, 56, 7849-7852	5.8	14
397	Hydroisocyanurates X2Y(H2C3N3O3)44H2O (X = K, Cs; Y = Zn, Cd) with large birefringence stemming from conjugated (H2C3N3O3)anions. *CrystEngComm*, **2020**, 22, 2128-2131	3.3	14

396	Designing a Deep-UV Nonlinear Optical Fluorooxosilicophosphate. *Journal of the American Chemical Society*, **2020**, 142, 6472-6476	16.4	46
395	Strong Second Harmonic Generation in a Tungsten Bronze Oxide by Enhancing Local Structural Distortion. *Journal of the American Chemical Society*, **2020**, 142, 7480-7486	16.4	18
394	Rational Design of the Nonlinear Optical Response in a Tin Iodate Fluoride Sn(IO3)2F2. *Chemistry of Materials*, **2020**, 32, 2615-2620	9.6	41
393	Molecular Construction from AgGaS2 to CuZnPS4: Defect-Induced Second Harmonic Generation Enhancement and Cosubstitution-Driven Band Gap Enlargement. *Chemistry of Materials*, **2020**, 32, 3288-3296	9.6	34
392	Inherent laws between tetrahedral arrangement pattern and optical performance in tetrahedron-based mid-infrared nonlinear optical materials. *Coordination Chemistry Reviews*, **2020**, 421, 213444	23.2	46
391	Nonlinear optical ASnX (A = Na, H; X = N, P) nanosheets with divalent tin lone electron pair effect by first-principles design. *Nanoscale*, **2020**, 12, 14895-14902	7.7	5
390	Gadolinium-Rich Borate Gd(BO)(BO)O Exhibiting a Magnetocaloric Effect. *Inorganic Chemistry*, **2020**, 59, 11071-11078	5.1	6
389	Enhancing Photoluminescence Quantum Yield in 0D Metal Halides by Introducing Water Molecules. *Advanced Functional Materials*, **2020**, 30, 2002468	15.6	45
388	Synthesis, Crystal Structure and Green Luminescence in Zero-Dimensional Tin Halide (CHN)SnBr. *Inorganic Chemistry*, **2020**, 59, 9962-9968	5.1	37
387	Data-driven prediction of diamond-like infrared nonlinear optical crystals with targeting performances. *Scientific Reports*, **2020**, 10, 3486	4.9	6
386	An Unprecedented Antimony(III) Borate with Strong Linear and Nonlinear Optical Responses. *Angewandte Chemie - International Edition*, **2020**, 59, 7793-7796	16.4	70
385	Two Covalent Ultraviolet Nonlinear Optical Crystals. *Chemistry - an Asian Journal*, **2020**, 15, 775-779	4.5	1
384	An Unprecedented Antimony(III) Borate with Strong Linear and Nonlinear Optical Responses. *Angewandte Chemie*, **2020**, 132, 7867-7870	3.6	22
383	Inorganic planar π-conjugated groups in nonlinear optical crystals: review and outlook. *Inorganic Chemistry Frontiers*, **2020**, 7, 839-852	6.8	44
382	Nonlayered CdSe Flakes Homojunctions. *Advanced Functional Materials*, **2020**, 30, 1908902	15.6	18
381	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	6.4	41
380	First-Principles Design and Simulations Promote the Development of Nonlinear Optical Crystals. *Accounts of Chemical Research*, **2020**, 53, 209-217	24.3	101
379	An unprecedented planar π-conjugated [BP] group with ultra-large birefringence and nonlinearity: an ab initio study. *Chemical Communications*, **2020**, 56, 643-646	5.8	11

378	"Old dog, new tricks": the lone pair effect inducing divergent optical responses in lead cyanurates containing bonds. *Dalton Transactions*, **2020**, 49, 1370-1374	4.3	13
377	Alkali-earth metal lead(II) oxyhalide Ba27Pb8O8Cl54 exhibiting interesting [Pb4Ba4O4]8+ species. *New Journal of Chemistry*, **2020**, 44, 1699-1702	3.6	3
376	Structural Diversity and Giant Birefringence in Cyanates BaCNOX (X = Cl, Br, I, and CNO) Containing Linear Conjugated Units: A Combined Experimental and Theoretical Study. *Crystal Growth and Design*, **2020**, 20, 1242-1247	3.5	5
375	Surface Nonlinear Optics on Centrosymmetric Dirac Nodal-Line Semimetal ZrSiS. *Advanced Materials*, **2020**, 32, e1904498	24	5
374	Ba(MoOF)(XO) (X = Se and Te): First Cases of Noncentrosymmetric Fluorinated Molybdenum Oxide Selenite/Tellurite Through Unary Substitution for Enlarging Band Gaps and Second Harmonic Generation. *ACS Applied Materials & Interfaces*, **2020**, 12, 49812-49821	9.5	17
373	La2SrB10O19: A Promising Ultraviolet Nonlinear Optical Crystal with an Enhanced Nonlinear Optical Effect and Shortened Cutoff Edge. *Crystal Growth and Design*, **2020**, 20, 5626-5632	3.5	5
372	CsZn2BO3X2 (X2=F2, Cl2, and FCl): A Series of Beryllium-Free Deep-Ultraviolet Nonlinear-Optical Crystals with Excellent Properties. *Angewandte Chemie*, **2020**, 132, 19168-19172	3.6	22
371	CsZn BO X (X =F , Cl , and FCl): A Series of Beryllium-Free Deep-Ultraviolet Nonlinear-Optical Crystals with Excellent Properties. *Angewandte Chemie - International Edition*, **2020**, 59, 19006-19010	16.4	39
370	Evaluation of nonlinear optical properties of quaternary chalcogenide halides Ba4Si3Se9Br2 and Ba4Ge3Se9Br2. *Journal of Alloys and Compounds*, **2020**, 846, 156398	5.7	6
369	Realizing Tunable White Light Emission in Lead-Free Indium(III) Bromine Hybrid Single Crystals through Antimony(III) Cation Doping. *Journal of Physical Chemistry Letters*, **2020**, 11, 10164-10172	6.4	28
368	EuHgGeSe and EuHgSnS: Two Quaternary Eu-Based Infrared Nonlinear Optical Materials with Strong Second-Harmonic-Generation Responses. *Inorganic Chemistry*, **2020**, 59, 18452-18460	5.1	15
367	Mechanochemical Synthesis of an Ionic Cocrystal with Large Birefringence Resulting from Neutral Planar Conjugated Groups. *Crystal Growth and Design*, **2020**, 20, 7588-7592	3.5	10
366	Intrinsic Isotropic Near-Zero Thermal Expansion in ZnBOX (X = O, S, Se). *ACS Applied Materials & Interfaces*, **2020**, 12, 38435-38440	9.5	5
365	Realizing Deep-Ultraviolet Second Harmonic Generation by First-Principles-Guided Materials Exploration in Hydroxyborates. *Journal of the American Chemical Society*, **2020**, 142, 15157-15163	16.4	28
364	Optimal arrangement of conjugated anionic groups in hydro-isocyanurates leads to large optical anisotropy and second-harmonic generation effect. *Inorganic Chemistry Frontiers*, **2020**, 7, 3674-3686	6.8	10
363	NaCdGeS: A Sodium-Rich Quaternary Wide-Band-Gap Chalcogenide with Two-Dimensional [GeCdS] Layers. *Inorganic Chemistry*, **2020**, 59, 16132-16136	5.1	3
362	Two Mixed-Anion Units of [GeOSe] and [GeOS] Originating from Partial Isovalent Anion Substitution and Inducing Moderate Second Harmonic Generation Response and Large Birefringence. *Inorganic Chemistry*, **2020**, 59, 16716-16724	5.1	13
361	Nonlinear-Optical Crystal RbYBO with Condensed BO Blocks That Exhibits an Intriguing Structural Arrangement and a Short Ultraviolet Absorption Edge. *Inorganic Chemistry*, **2020**, 59, 13029-13033	5.1	8

360	Selenite bromide nonlinear optical materials PbGaF(SeO)Br and PbNbO(SeO)Br: synthesis and characterization. *Dalton Transactions*, **2020**, 49, 14046-14051	4.3	4
359	New quaternary chalcogenide BaHgAsS originating from the combination of linear [HgS] and tetrahedral [AsS] modules. *Dalton Transactions*, **2020**, 49, 13060-13065	4.3	1
358	KCu(CNO)X (X = Cl, Br): strong anisotropic layered semiconductors containing mixed p-p and d-p conjugated □bonds. *Chemical Communications*, **2020**, 56, 12534-12537	5.8	2
357	BaSrPbOCl: the first alkali-earth metal lead(ii) oxyhalide with an intriguing multimember-ring layer. *Dalton Transactions*, **2020**, 49, 3667-3671	4.3	4
356	"Two in one": an unprecedented mixed anion, Ba(CNO)(CNO), with the coexistence of isolated sp and sp□conjugated groups. *Dalton Transactions*, **2019**, 48, 14246-14250	4.3	10
355	LiO4 tetrahedra lock the alignment of □conjugated layers to maximize optical anisotropy in metal hydroisocyanurates. *Inorganic Chemistry Frontiers*, **2019**, 6, 2850-2854	6.8	22
354	Phase transition, optical and dielectric properties regulated by anion-substitution in a homologous series of 2D hybrid organic□inorganic perovskites. *Journal of Materials Chemistry C*, **2019**, 7, 11964-11971	7.1	25
353	Nitrate nonlinear optical crystals: A survey on structure-performance relationships. *Coordination Chemistry Reviews*, **2019**, 400, 213045	23.2	50
352	Lead-Free Hybrid Metal Halides with a Green-Emissive [MnBr] Unit as a Selective Turn-On Fluorescent Sensor for Acetone. *Inorganic Chemistry*, **2019**, 58, 13464-13470	5.1	56
351	Li4HgSn2Se7: The First Second-Order Nonlinear Optical-Active Selenide in the I4□□V2□I7 Diamond-like Family. *Crystal Growth and Design*, **2019**, 19, 5494-5497	3.5	11
350	CsNaVCl: A Pb-Free Halide Double Perovskite with Strong Visible and Near-Infrared Light Absorption. *ACS Applied Materials & Interfaces*, **2019**, 11, 38648-38653	9.5	14
349	SrI3O9H: A new alkaline earth metal iodate with two different anionic units using mild aqua-solution method. *Solid State Sciences*, **2019**, 97, 105982	3.4	1
348	A new ultraviolet transparent hydra-cyanurate K(CNOH) with strong optical anisotropy from delocalized □bonds. *Dalton Transactions*, **2019**, 48, 2271-2274	4.3	31
347	BeO Trigonal Prism with Ultralong Be-O Bonds Observed in a Deep Ultraviolet Optical Crystal LiBeBeBO. *Inorganic Chemistry*, **2019**, 58, 2201-2207	5.1	8
346	Mn-Based tin sulfide Sr3MnSn2S8 with a wide band gap and strong nonlinear optical response. *Journal of Materials Chemistry C*, **2019**, 7, 1146-1150	7.1	18
345	ASbF3Cl (A = Rb, Cs): Structural Evolution from Centrosymmetry to Noncentrosymmetry. *Crystal Growth and Design*, **2019**, 19, 1874-1879	3.5	4
344	Negative area compressibility of a hydrogen-bonded two-dimensional material. *Chemical Science*, **2019**, 10, 1309-1315	9.4	15
343	Regulating Second-Harmonic Generation by van der Waals Interactions in Two-dimensional Lead Halide Perovskite Nanosheets. *Journal of the American Chemical Society*, **2019**, 141, 9134-9139	16.4	54

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