

Zhi-hua Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

333
papers

12,246
citations

52
h-index

98
g-index

358
ext. papers

15,660
ext. citations

6.5
avg, IF

7.14
L-index

#	Paper	IF	Citations
333	AZn ₂ (BO ₃)Si ₂ O ₅ (A = Rb, Cs): first examples of KBe ₂ BO ₃ F ₂ structure type in the borosilicate family exhibiting a deep-ultraviolet cutoff edge. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1727-1734	7.1	0
332	Design of a diamond-like infrared nonlinear optical material LiBS ₂ with ultra-wide band gap. <i>Journal of Alloys and Compounds</i> , 2022 , 902, 163839	5.7	0
331	Potential optical functional crystals with large birefringence: Recent advances and future prospects. <i>Coordination Chemistry Reviews</i> , 2022 , 459, 214380	23.2	9
330	Guanidinium Fluorooxoborates as Efficient Metal-free Short-Wavelength Nonlinear Optical Crystals. <i>Chemistry of Materials</i> , 2022 , 34, 440-450	9.6	15
329	Ba ₂ B ₁₃ O ₁₉ (OH) ₅ ·H ₂ O: A promising nonlinear optical material with a unique 2[B ₁₃ O ₁₉ (OH) ₅] two-dimensional layer. <i>Journal of Alloys and Compounds</i> , 2022 , 897, 163194	5.7	0
328	Na ⁺ /Ag ⁺ substitution induced birefringence enhancement from AgGaS ₂ to NaGaS ₂ . <i>Journal of Alloys and Compounds</i> , 2022 , 896, 163093	5.7	0
327	Removing Center: An Effective Structure Design Strategy for Nonlinear Optical Crystals. <i>Chemistry of Materials</i> , 2022 , 34, 2429-2438	9.6	1
326	Strong Nonlinearity Induced by Coaxial Alignment of Polar Chain and Dense [BO ₃] Units in CaZn ₂ (BO ₃) ₂ . <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	20
325	Rb ₅ Ba ₂ (B ₁₀ O ₁₇) ₂ (BO ₂): The formation of unusual functional [BO ₂] in borates with deep-ultraviolet transmission window. <i>Science China Chemistry</i> , 2022 , 65, 719-725	7.9	3
324	Noncentrosymmetric Rare-Earth Borate Fluoride LaBOF: A New Ultraviolet Nonlinear Optical Crystal with Enhanced Linear and Nonlinear Performance. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	6
323	The Combination of Structure Prediction and Experiment for the Exploration of Alkali-Earth Metal-Contained Chalcopyrite-Like IR Nonlinear Optical Material. <i>Advanced Science</i> , 2022 , e2106120	13.6	4
322	Lone Pair-Driven Enhancement of Birefringence in Polar Alkali Metal Antimony Phosphates. <i>Chemistry of Materials</i> , 2022 , 34, 4224-4231	9.6	1
321	Na ₄ B ₈ O ₉ F ₁₀ : A Deep-Ultraviolet Transparent Nonlinear Optical Fluorooxoborate with Unexpected Short Phase-Matching Wavelength Induced by Optimized Chromatic Dispersion. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	12
320	From [NaBO ₃] to [NaAlBO ₃] and [NaAl ₂ BO ₅]: Structural Tuning of Anionic-Group Architectures by Substitution of [BO ₃] by [AlO ₄] Covalent Tetrahedra. <i>Chemistry - A European Journal</i> , 2021 ,	4.8	2
319	Achieving Short-Wavelength Phase-Matching Second Harmonic Generation in Boron-Rich Borosulfate with Planar [BO ₃] Units. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	5
318	Syntheses, Structures and Properties of Alkali and Alkaline Earth Metal Diamond-Like Compounds LiMgMSe (M = Ge, Sn). <i>Materials</i> , 2021 , 14,	3.5	2
317	SnBO: A Ternary Tin(II) Borate with Flexible [BO ₃] Fundamental Building Block Formed by [BO ₃] and [BO ₂] Groups. <i>Inorganic Chemistry</i> , 2021 , 60, 883-891	5.1	2

316	Na MQ (M=Zn, Cd; Q=S, Se): Promising New Ternary Infrared Nonlinear Optical Materials. <i>Chemistry - A European Journal</i> , 2021 , 27, 6538-6544	4.8	3
315	Toward the Enhancement of Critical Performance for Deep-Ultraviolet Frequency-Doubling Crystals Utilizing Covalent Tetrahedra. <i>Accounts of Materials Research</i> , 2021 , 2, 282-291	7.5	33
314	Pb3Ba7B7O20F: A new nonlinear optical material exhibiting large second harmonic generation response induced by its unprecedented Pb-B-O framework. <i>Scripta Materialia</i> , 2021 , 194, 113700	5.6	5
313	Prediction of Novel van der Waals Boron Oxides with Superior Deep-Ultraviolet Nonlinear Optical Performance. <i>Angewandte Chemie</i> , 2021 , 133, 10886-10892	3.6	6
312	Prediction of Novel van der Waals Boron Oxides with Superior Deep-Ultraviolet Nonlinear Optical Performance. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10791-10797	16.4	10
311	M3B6O10NO3 (M = K, Rb): Two New Alkali Metal Borate-Nitrates with Noncentrosymmetric Structures. <i>European Journal of Inorganic Chemistry</i> , 2021 , 2021, 1297-1304	2.3	5
310	Expanding the chemistry of borates with functional [BO] anions. <i>Nature Communications</i> , 2021 , 12, 2597	17.4	28
309	Discovery of First Magnesium Fluorooxoborate with Stable Fluorine Terminated Framework for Deep-UV Nonlinear Optical Application. <i>Angewandte Chemie</i> , 2021 , 133, 14771-14777	3.6	4
308	Discovery of First Magnesium Fluorooxoborate with Stable Fluorine Terminated Framework for Deep-UV Nonlinear Optical Application. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14650-14656	16.4	30
307	Cs B O F : First Fluorooxoborate with [BF] Involving Heteroanionic Units and Extremely Low Melting Point. <i>Chemistry - A European Journal</i> , 2021 , 27, 9753-9757	4.8	7
306	Fluorine-Driven Enhancement of Birefringence in the Fluorooxosulfate: A Deep Evaluation from a Joint Experimental and Computational Study. <i>Advanced Science</i> , 2021 , 8, e2003594	13.6	24
305	The First Mixed Calcium Zinc Borate with a Flexible [B O] Fundamental Building Block and Short UV Cutoff Edge. <i>Chemistry - A European Journal</i> , 2021 , 27, 12047-12051	4.8	0
304	LiLa(BO) and LiNaLa(BO): A Great Enhancement in Birefringence Induced by Optimal Arrangement of Conjugated [BO] Units. <i>Inorganic Chemistry</i> , 2021 , 60, 12565-12572	5.1	1
303	SnF : A UV Birefringent Material with Large Birefringence and Easy Crystal Growth. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3540-3544	16.4	31
302	Series of Crystals with Giant Optical Anisotropy: A Targeted Strategic Research. <i>Angewandte Chemie</i> , 2021 , 133, 1352-1358	3.6	3
301	Series of Crystals with Giant Optical Anisotropy: A Targeted Strategic Research. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1332-1338	16.4	27
300	Sn2B5O9Br as an Outstanding Bifunctional Material with Strong Second-Harmonic Generation Effect and Large Birefringence. <i>Advanced Optical Materials</i> , 2021 , 9, 2001734	8.1	17
299	AB11O16(OH)2 (A = K and Cs): interpenetrating 2D layers with large birefringence. <i>CrystEngComm</i> , 2021 , 23, 35-39	3.3	1

298	CsAlBO: a short-wavelength nonlinear optical crystal with moderate second harmonic generation response. <i>Dalton Transactions</i> , 2021 , 50, 822-825	4.3	3
297	Ba ₂ B ₇ O ₁₂ F with novel FBB [B ₇ O ₁₆ F] and deep-ultraviolet cut-off edge. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 339-343	6.8	5
296	Na ₃ AMg ₇ (PO ₄) ₆ (A = K, Rb and Cs): Structures, properties and theoretical studies of alkali metal magnesium orthophosphates. <i>Journal of Molecular Structure</i> , 2021 , 1226, 129349	3.4	2
295	Sn ₁₄ O ₁₁ Br ₆ : a promising birefringent material with a [Sn ₁₄ O ₁₁ Br ₆] layer. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 7103-7109	7.1	3
294	Synergism of multiple functional chromophores significantly enhancing the birefringence in layered non-centrosymmetric chalcogenides. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 1588-1598	6.8	3
293	The synthesis, characterization, and theoretical analysis of (NH ₄) ₃ PbCl ₅ . <i>New Journal of Chemistry</i> , 2021 , 45, 2038-2043	3.6	
292	Design and synthesis of BaSiSe with suitable birefringence modulated via M atoms in the Ba-M-Q (M = Si, Ge; Q = S, Se) system. <i>Dalton Transactions</i> , 2021 , 50, 11999-12005	4.3	0
291	An antimony(III) borate with large birefringence exhibiting unwonted [B ₅ O ₁₁] fundamental building blocks and dimeric [Sb ₂ O ₆] clusters. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 2584-2590	6.8	4
290	BaZn(BO)F: a new beryllium-free zincoborate with a KBBF-type structure. <i>Dalton Transactions</i> , 2021 , 50, 13216-13219	4.3	1
289	SrTi(IO) ₂ HO and SrSn(IO): distinct arrangements of lone pair electrons leading to large birefringences. <i>RSC Advances</i> , 2021 , 11, 10309-10315	3.7	1
288	Computationally assisted multistage design and prediction driving the discovery of deep-ultraviolet nonlinear optical materials. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 3507-3523	7.8	6
287	From centrosymmetric to noncentrosymmetric: effect of the cation on the crystal structures and birefringence values of (NH)AE(POF) (AE = Mg, Sr and Ba; = 2, 3 and 4). <i>Dalton Transactions</i> , 2021 , 50, 10206-10213	4.3	1
286	From BaCl ₂ to Ba(NO ₃)Cl: significantly enhanced birefringence derived from E-conjugated [NO ₃]. <i>New Journal of Chemistry</i> , 2021 , 45, 17544-17550	3.6	1
285	BaTi(BO ₃) ₂ : an excellent birefringent material with highly coplanar isolated [BO ₃] groups. <i>New Journal of Chemistry</i> , 2021 , 45, 7065-7068	3.6	3
284	Pb _{2.28} Ba _{1.72} B ₁₀ O ₁₉ featuring a three-dimensional BO ₄ anionic network with edge-sharing [BO ₄] obtained under ambient pressure. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 3716-3722	6.8	1
283	Hydroxyfluorooxoborate Na[B ₃ O ₃ F ₂ (OH) ₂][B(OH) ₃]: Optimizing the Optical Anisotropy with Heteroanionic Units for Deep Ultraviolet Birefringent Crystals. <i>Angewandte Chemie</i> , 2021 , 133, 20632-20638	3.6	3
282	Hg ₃ P ₂ S ₈ : A New Promising Infrared Nonlinear Optical Material with a Large Second-Harmonic Generation and a High Laser-Induced Damage Threshold. <i>Chemistry of Materials</i> , 2021 , 33, 6514-6521	9.6	19
281	Hydroxyfluorooxoborate Na[B ₃ O ₃ F(OH)] ₂ [B(OH) ₃]: Optimizing the Optical Anisotropy with Heteroanionic Units for Deep Ultraviolet Birefringent Crystals. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20469-20475	16.4	25

280	NaRbBOF: A New Fluorooxoborate with a Short UV Cutoff Edge Enriching the Structural Chemistry of Borate. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 3082-3085	4.5	0
279	LiMgGeS: The First Alkali and Alkaline-Earth Diamond-Like Infrared Nonlinear Optical Material with Exceptional Large Band Gap. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24131-24136	16.4	30
278	Sn ₂ PO ₄ I: An Excellent Birefringent Material with Giant Optical Anisotropy in Non- π -Conjugated Phosphate. <i>Angewandte Chemie</i> , 2021 , 133, 25105	3.6	0
277	SnPOI: An Excellent Birefringent Material with Giant Optical Anisotropy in Non- π -Conjugated Phosphate. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24901-24904	16.4	12
276	CsBaB ₉ O ₁₅ : a high performance ultraviolet nonlinear optical material activated by the peculiar double layered configuration. <i>Science Bulletin</i> , 2021 , 66, 2165-2169	10.6	7
275	BaBOF with reversible phase transition featuring unprecedented fundamental building blocks of [BOF] in the β -phase and [BOF] in the α -phase. <i>Chemical Communications</i> , 2021 , 57, 4182-4185	5.8	2
274	LiCaBO: A Borate with a Unique Fundamental Building Block and a Short Cutoff Edge. <i>Inorganic Chemistry</i> , 2020 , 59, 8396-8403	5.1	7
273	From BaAl ₂ (BO ₃) ₂ O to SnAl ₂ (BO ₃) ₂ F ₂ : structure transformation based on ion regulation. <i>New Journal of Chemistry</i> , 2020 , 44, 9852-9857	3.6	1
272	RbBaTeBO: a novel [BO] fundamental building block in a new telluroborate with [TeO] polyhedra. <i>Dalton Transactions</i> , 2020 , 49, 8911-8917	4.3	4
271	New Alkaline-Earth Metal Fluoroiodates Exhibiting Large Birefringence and Short Ultraviolet Cutoff Edge with Highly Polarizable (IO ₃ F) ₂ Units. <i>Chemistry of Materials</i> , 2020 , 32, 5723-5728	9.6	23
270	ZnIOF: Zinc Iodate Fluoride with Large Birefringence and Wide Band Gap. <i>Inorganic Chemistry</i> , 2020 , 59, 4172-4175	5.1	20
269	Enhanced nonlinear optical functionality in birefringence and refractive index dispersion of the deep-ultraviolet fluorooxoborates. <i>Science China Materials</i> , 2020 , 63, 1480-1488	7.1	41
268	K ₂ Na(IO ₃) ₂ (BO ₃) with Strong Second Harmonic Generation Response Activated by Two Types of Isolated Iodate Anions. <i>Chemistry of Materials</i> , 2020 , 32, 3608-3614	9.6	16
267	Alignment of Polar Moieties Leading to Strong Second Harmonic Response in KCsMoP ₂ O ₉ . <i>Chemistry of Materials</i> , 2020 , 32, 3297-3303	9.6	14
266	Polar polymorphism: Band KCsWP ₂ O ₉ nonlinear optical materials with a strong second harmonic generation response. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11441-11448	7.1	8
265	PbB ₅ O ₇ F ₃ : A High-Performing Short-Wavelength Nonlinear Optical Material. <i>Chemistry of Materials</i> , 2020 , 32, 2172-2179	9.6	44
264	Noncentrosymmetric Fluorooxoborates ABOF (A = K and Rb) with Unexpected [BOF] Units and Deep-Ultraviolet Cutoff Edges. <i>Inorganic Chemistry</i> , 2020 , 59, 3274-3280	5.1	9
263	Structural Diversity of Molybdate Iodate and Fluoromolybdate: Syntheses, Structures, and Calculations on Na(MoO)(IO) and NaCs(MoOF). <i>Inorganic Chemistry</i> , 2020 , 59, 3034-3041	5.1	7

262	Ba(BOF(OH)) with well-ordered OH/F anions and a unique BOF(OH) dimer. <i>Chemical Communications</i> , 2020 , 56, 3301-3304	5.8	10
261	Band-Gap Modulation of Nonlinear-Optical Fluorooxoborates by Controlling the F/B Ratios. <i>Inorganic Chemistry</i> , 2020 , 59, 1588-1591	5.1	2
260	La B O (OH): The First Acentric High-Pressure Borate Displaying Edge-Sharing BO Tetrahedra. <i>Chemistry - A European Journal</i> , 2020 , 26, 6851-6861	4.8	11
259	\square $\text{Pb}_4\text{B}_2\text{O}_7$ and \square $\text{Pb}_4\text{B}_6\text{O}_{13}$: Polymorphism drives changes in structure and performance. <i>Science China Materials</i> , 2020 , 63, 806-815	7.1	5
258	A Promising Fluorooxoborate Framework with Flexible Capability for Diverse Cations to Enhance the Second Harmonic Generation. <i>Chemistry - A European Journal</i> , 2020 , 26, 3723-3728	4.8	5
257	LiBaGaQ (Q = S, Se): Noncentrosymmetric Metal Chalcogenides with a Cesium Chloride Topological Structure Displaying a Remarkable Laser Damage Threshold. <i>Inorganic Chemistry</i> , 2020 , 59, 5674-5682	5.1	8
256	Prediction of ternary fluorooxoborates with coplanar triangular units [BOF] from first-principles. <i>Dalton Transactions</i> , 2020 , 49, 5424-5428	4.3	6
255	Effect of anion dimensionality on optical properties: the [BO(OH)] layer in CsBO(OH) vs. the [BO] framework in CsBaBO. <i>Dalton Transactions</i> , 2020 , 49, 1292-1299	4.3	9
254	Al(BO)(BO)F: A F-Containing Aluminum Borate Featuring Two Types of Isolated B-O Groups. <i>Inorganic Chemistry</i> , 2020 , 59, 810-817	5.1	4
253	Two new ammonium/alkali-rare earth metal difluorophosphates ALa(POF) (A = NH and K) with moderate birefringence and short cutoff edges. <i>Dalton Transactions</i> , 2020 , 49, 11591-11596	4.3	7
252	Structure-property survey and computer-assisted screening of mid-infrared nonlinear optical chalcogenides. <i>Coordination Chemistry Reviews</i> , 2020 , 421, 213379	23.2	35
251	RbBOF: a rubidium fluorooxoborate with an unprecedented [BOF] functionalized unit and a large birefringence. <i>Chemical Communications</i> , 2020 , 56, 15333-15336	5.8	13
250	K(POF)(SO): first fluorooxophosphorsulfate with mixed-anion [SO] and [POF] groups. <i>Dalton Transactions</i> , 2020 , 49, 17658-17664	4.3	6
249	Enhanced optical anisotropy dimensional control in alkali-metal chalcogenides. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19697-19703	3.6	5
248	Three non-centrosymmetric bismuth phosphates, $\text{Li}_2\text{ABi}(\text{PO}_4)_2$ (A = K, Rb, and Cs): effects of cations on the crystal structure and SHG response. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 3364-3370	6.8	5
247	Fluorooxoborate layers: second harmonic generation and Raman spectra anisotropy. <i>New Journal of Chemistry</i> , 2020 , 44, 13939-13943	3.6	1
246	Role of Fluorooxo-Functional Units in Symmetry Breaking and Second Harmonic Generation Response Contribution in Fluorooxoborate Nonlinear Optical Crystals. <i>Crystal Growth and Design</i> , 2020 , 20, 7582-7587	3.5	3
245	Second Harmonic Generation Susceptibilities from Symmetry Adapted Wannier Functions. <i>Physical Review Letters</i> , 2020 , 125, 187402	7.4	23

244	A review of the ABCD family as infrared nonlinear optical materials: the effect of each site on the structure and optical properties. <i>Chemical Communications</i> , 2020 , 56, 11565-11576	5.8	17
243	Ba(BO)(CO)F: The First Borate Carbonate Fluoride Synthesized by the High-Temperature Solution Method. <i>Chemistry - A European Journal</i> , 2020 , 26, 16628-16632	4.8	5
242	CsBOF with a Deep-Ultraviolet Cutoff Edge and a Suitable Birefringence as the Potential Zero-Order Waveplate Material. <i>Inorganic Chemistry</i> , 2020 , 59, 13014-13018	5.1	8
241	Three diphosphates, LiNaPO , LiPbBa(PO) and LiRb(PO) : influences of co-substitution on the crystal structure. <i>Dalton Transactions</i> , 2020 , 49, 6744-6750	4.3	3
240	$\text{CO(NH}_2)_2\text{[NH}_4\text{Cl]}$: an ultraviolet birefringent material with conjugated CO groups. <i>CrystEngComm</i> , 2019 , 21, 6072-6079	3.3	7
239	Cation Modulation on the Crystal Structure and Band Gap of Fluorooxoborates ABOF (A = Alkali and Mixed Alkali Metal). <i>Inorganic Chemistry</i> , 2019 , 58, 13411-13417	5.1	12
238	LiBaMQ (M = Al, Ga, In; Q = S, Se): A Series of Metal Chalcogenides with a Structural Transition. <i>Inorganic Chemistry</i> , 2019 , 58, 12859-12866	5.1	4
237	Experimental characterization and first principles calculations of linear and nonlinear optical properties of two orthophosphates $\text{A}_3\text{Al}_2(\text{PO}_4)_3$ (A = Rb, K). <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 504-510	6.8	17
236	Adjustable optical nonlinearity in d cations containing chalcogenides via dp hybridization interaction. <i>Dalton Transactions</i> , 2019 , 48, 2592-2597	4.3	11
235	Lone pair effects on ternary infrared nonlinear optical materials. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5142-5147	3.6	9
234	LiNaCsBO : a new edge-sharing [BO] tetrahedra containing borate with high anisotropic thermal expansion. <i>Chemical Communications</i> , 2019 , 55, 1295-1298	5.8	26
233	$\text{BaB}_8\text{O}_{12}\text{F}_2$: a promising deep-UV birefringent material. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 546-549	6.8	40
232	The first lithium difluorophosphate LiPOF with a neutral polytetrahedral microporous architecture. <i>Chemical Communications</i> , 2019 , 55, 1817-1820	5.8	13
231	An alkali metal phosphate $\text{RbPbBi}_2(\text{PO}_4)_3$ with three kinds of disorder: the effect of isolated soft cation units on the crystal structure. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2050-2054	6.8	0
230	CsBO : A Triple-Layered Borate with Edge-Sharing BO Tetrahedra Exhibiting a Short Cutoff Edge and a Large Birefringence. <i>Chemistry - A European Journal</i> , 2019 , 25, 11614-11619	4.8	22
229	$\text{K}_2[\text{B}_4\text{O}_5(\text{OH})_4]\cdot\text{H}_2\text{O}$ and $\text{K}_2[\text{B}_4\text{O}_5(\text{OH})_4]$: two new hydrated potassium borates with isolated $[\text{B}_4\text{O}_5(\text{OH})_4]^{2-}$ units and different structural frameworks. <i>New Journal of Chemistry</i> , 2019 , 43, 11660-11665	3.6	2
228	Transformation of the B-O Units from Corner-Sharing to Edge-Sharing Linkages in BaMBO (M = Ga, Al). <i>Inorganic Chemistry</i> , 2019 , 58, 8237-8244	5.1	16
227	Three new phosphates, CsPb(PO) , CsLi(PO) and LiCa(PO) : structural comparison, characterization and theoretical calculation. <i>Dalton Transactions</i> , 2019 , 48, 8948-8954	4.3	12

226	Two alkali calcium borates exhibiting second harmonic generation and deep-UV cutoff edges. <i>New Journal of Chemistry</i> , 2019 , 43, 9354-9363	3.6	2
225	K[BO(OH)](CO)X Γ HO (X = Cl, Br): Syntheses, Characterizations, and Theoretical Studies of Noncentrosymmetric Halogen Borate-Carbonates with Short UV Cutoff Edges. <i>Inorganic Chemistry</i> , 2019 , 58, 6974-6982	5.1	7
224	From centrosymmetric to noncentrosymmetric: cation-directed structural evolution in X3ZnB5O10 (X = Na, K, Rb) and Cs12Zn4(B5O10)4 crystals. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1461-1467	6.8	9
223	A new barium fluorooxoborate BaBOF Γ xHO with large birefringence and a wide UV transparency window. <i>Dalton Transactions</i> , 2019 , 48, 6714-6717	4.3	16
222	Module-Analysis-Assisted Design of Deep Ultraviolet Fluorooxoborates with Extremely Large Gap and High Structural Stability. <i>Chemistry of Materials</i> , 2019 , 31, 2807-2813	9.6	66
221	[Ge S (S)], A NLO-Active Unit Leading to an Asymmetric Structure Discovered in Li Cs Ge S (S)Cl: An Experimental and Theoretical study. <i>Chemistry - A European Journal</i> , 2019 , 25, 5440-5444	4.8	3
220	NaCaBO(SiO) with Interesting Isolated [BO] and [SiO] Units in Alkali- and Alkaline-Earth-Metal Borosilicates. <i>Inorganic Chemistry</i> , 2019 , 58, 3937-3943	5.1	8
219	Designing Three Fluorooxoborates with a Wide Transmittance Window by Anionic Group Substitution. <i>Inorganic Chemistry</i> , 2019 , 58, 3596-3600	5.1	9
218	Synthesis, characterization, and theoretical analysis of three new nonlinear optical materials K7MRE2B15O30 (M= Ca and Ba, RE= La and Bi). <i>Science China Materials</i> , 2019 , 62, 1151-1161	7.1	17
217	ABaSbQ (A = Li, Na; Q = S, Se): diverse arrangement modes of isolated SbQ ligands regulating the magnitudes of birefringences. <i>Chemical Communications</i> , 2019 , 55, 5143-5146	5.8	23
216	Two Polar Molybdenum(VI) Iodates(V) with Large Second-Harmonic Generation Responses. <i>Chemistry of Materials</i> , 2019 , 31, 2992-3000	9.6	42
215	BaB O F : A Barium Fluorooxoborate with a Unique [B O F] Layer and Short Cutoff Edge. <i>Chemistry - A European Journal</i> , 2019 , 25, 6693-6697	4.8	22
214	Targeting the Next Generation of Deep-Ultraviolet Nonlinear Optical Materials: Expanding from Borates to Borate Fluorides to Fluorooxoborates. <i>Accounts of Chemical Research</i> , 2019 , 52, 791-801	24.3	198
213	Ba4M(CO3)2(BO3)2 (M=Ba, Sr): two borate-carbonates synthesized by open high temperature solution method. <i>Science China Materials</i> , 2019 , 62, 1023-1032	7.1	17
212	ASrMS (A = Li, Na; M = Ge, Sn) concurrently exhibiting wide bandgaps and good nonlinear optical responses as new potential infrared nonlinear optical materials. <i>Chemical Science</i> , 2019 , 10, 3963-3968	9.4	52
211	Prediction and Characterization of NaGaS, A High Thermal Conductivity Mid-Infrared Nonlinear Optical Material for High-Power Laser Frequency Conversion. <i>Inorganic Chemistry</i> , 2019 , 58, 93-98	5.1	19
210	Structural insights into three phosphates with distinct polyanionic configurations. <i>Dalton Transactions</i> , 2019 , 48, 13406-13412	4.3	5
209	Ba3Ca4(BO3)3(SiO4)Cl: a new non-centrosymmetric complex alkaline-earth metal borosilicate chloride with a deep-ultraviolet cut-off edge. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2200-2208	6.8	7

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200	Nontoxic KBBF Family Member ZnBO(OH): Balance between Beneficial Layered Structure and Layer Tendency. <i>Advanced Science</i> , 2019 , 6, 1901679	13.6	32
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174	Oxyhalides: prospecting ore for optical functional materials with large laser damage thresholds. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2435-2442	7.1	39
173	Cation-Tuned Synthesis of Fluorooxoborates: Towards Optimal Deep-Ultraviolet Nonlinear Optical Materials. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2150-2154	16.4	336

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80	"XA ₆ " octahedra influencing the arrangement of anionic groups and optical properties in inverse-perovskite [B ₆ O ₁₀]XA ₃ (X = Cl, Br; A = alkali metal). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15394-8	3.6	13
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74	Two New Crystals in Li(m)Cs(n)B(m+n)O _{2(m+n)} (m + n = 5, 7; m > n) Series: Noncentrosymmetric Li ₅ Cs ₂ B ₇ O ₁₄ and Centrosymmetric Li ₄ CsB ₅ O ₁₀ . <i>Inorganic Chemistry</i> , 2015 , 54, 7381-7	5.1	13
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