

Zhe-Shuai Lin

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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	New insights into the origin of visible light photocatalytic activity of nitrogen-doped and oxygen-deficient anatase TiO ₂ . <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20948-52	3.4	401
484	NaSr ₃ Be ₃ B ₃ O ₉ F ₄ : a promising deep-ultraviolet nonlinear optical material resulting from the cooperative alignment of the [Be ₃ B ₃ O ₁₂ F](10-) anionic group. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9141-4	16.4	319
483	The development of new borate-based UV nonlinear optical crystals. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 80, 1-25	1.9	315
482	Beryllium-free Li ₄ Sr(BO ₃) ₂ for deep-ultraviolet nonlinear optical applications. <i>Nature Communications</i> , 2014 , 5, 4019	17.4	310
481	Interstitial P-Doped CdS with Long-Lived Photogenerated Electrons for Photocatalytic Water Splitting without Sacrificial Agents. <i>Advanced Materials</i> , 2018 , 30, 1705941	24	304
480	Two Novel Bi-Based Borate Photocatalysts: Crystal Structure, Electronic Structure, Photoelectrochemical Properties, and Photocatalytic Activity under Simulated Solar Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22986-22994	3.8	303
479	Metal Thiophosphates with Good Mid-infrared Nonlinear Optical Performances: A First-Principles Prediction and Analysis. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13049-59	16.4	264
478	BaGa ₄ Se ₇ : a new congruent-melting IR nonlinear optical material. <i>Inorganic Chemistry</i> , 2010 , 49, 9212-6	5.1	260
477	A new cathode material for super-valent battery based on aluminium ion intercalation and deintercalation. <i>Scientific Reports</i> , 2013 , 3, 3383	4.9	252
476	2012 ,		234
475	Deep-ultraviolet transparent phosphates RbBa ₂ (PO ₃) ₅ and Rb ₂ Ba ₃ (P ₂ O ₇) ₂ show nonlinear optical activity from condensation of [PO ₄](3-) units. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8560-3	16.4	227
474	Pressure-Induced Phase Transformation, Reversible Amorphization, and Anomalous Visible Light Response in Organolead Bromide Perovskite. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11144-9	16.4	226
473	MBOF (M = Ca, Sr): Two Noncentrosymmetric Alkaline Earth Fluorooxoborates as Promising Next-Generation Deep-Ultraviolet Nonlinear Optical Materials. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3884-3887	16.4	209
472	Mid-Infrared Nonlinear Optical Materials Based on Metal Chalcogenides: Structure-Property Relationship. <i>Crystal Growth and Design</i> , 2017 , 17, 2254-2289	3.5	206
471	Beryllium-free Rb ₃ Al ₃ B ₃ O ₁₀ F with reinforced interlayer bonding as a deep-ultraviolet nonlinear optical crystal. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2207-10	16.4	206
470	Analysis and prediction of mid-IR nonlinear optical metal sulfides with diamond-like structures. <i>Coordination Chemistry Reviews</i> , 2017 , 333, 57-70	23.2	205
469	Designing a Beryllium-Free Deep-Ultraviolet Nonlinear Optical Material without a Structural Instability Problem. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2961-4	16.4	185

468	Molecular Engineering Design to Resolve the Layering Habit and Polymorphism Problems in Deep UV NLO Crystals: New Structures in $MM_2Be_2B_2O_6F$ ($M=Na, M=Ca; M=K, M=Ca, Sr$). <i>Chemistry of Materials</i> , 2011 , 23, 5457-5463	9.6	172
467	Inorganic Colloidal Perovskite Quantum Dots for Robust Solar CO Reduction. <i>Chemistry - A European Journal</i> , 2017 , 23, 9481-9485	4.8	161
466	First-principles materials applications and design of nonlinear optical crystals. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 253001	3	159
465	Nanostructured Ni_2P as a Robust Catalyst for the Hydrolytic Dehydrogenation of Ammonia-Borane. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15725-9	16.4	158
464	Tailored synthesis of a nonlinear optical phosphate with a short absorption edge. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4217-21	16.4	157
463	Simultaneously efficient light absorption and charge transport of phosphate and oxygen-vacancy confined in bismuth tungstate atomic layers triggering robust solar CO ₂ reduction. <i>Nano Energy</i> , 2017 , 32, 359-366	17.1	153
462	Microspheric $Na_2Ti_3O_7$ consisting of tiny nanotubes: an anode material for sodium-ion batteries with ultrafast charge-discharge rates. <i>Nanoscale</i> , 2013 , 5, 594-9	7.7	150
461	Rational Design of the First Lead/Tin Fluorooxoborates MBOF ($M = Pb, Sn$), Containing Flexible Two-Dimensional [BOF] Single Layers with Widely Divergent Second Harmonic Generation Effects. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6814-6817	16.4	148
460	Mechanical tunability via hydrogen bonding in metal-organic frameworks with the perovskite architecture. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7801-4	16.4	146
459	"All-Three-in-One": A New Bismuth-Tellurium-Borate $BiTeBO$ Exhibiting Strong Second Harmonic Generation Response. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14190-14193	16.4	141
458	$BaGa_2MQ_6$ ($M = Si, Ge; Q = S, Se$): a new series of promising IR nonlinear optical materials. <i>Dalton Transactions</i> , 2012 , 41, 5653-61	4.3	141
457	Analysis of Deep-UV Nonlinear Optical Borates: Approaching the End. <i>Advanced Optical Materials</i> , 2014 , 2, 411-417	8.1	136
456	Trigonal Planar $[HgSe_3]^{4-}$ 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, 6135-8	16.4	135
455	Non-Centrosymmetric $RbNaMgPO$ with Unprecedented Thermo-Induced Enhancement of Second Harmonic Generation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1592-1595	16.4	134
454	NH_2BeBOF and $BeBOF$: Overcoming the Layering Habit in $KBeBOF$ for the Next-Generation Deep-Ultraviolet Nonlinear Optical Materials. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8968-8972	16.4	127
453	Self-Supported Cedarlike Semimetallic Cu_3P Nanoarrays as a 3D High-Performance Janus Electrode for Both Oxygen and Hydrogen Evolution under Basic Conditions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23037-48	9.5	124
452	Rational Design of Deep-Ultraviolet Nonlinear Optical Materials in Fluorooxoborates: Toward Optimal Planar Configuration. <i>Chemistry of Materials</i> , 2017 , 29, 7098-7102	9.6	113
451	A new mixed halide, $Cs_2HgI_2Cl_2$: molecular engineering for a new nonlinear optical material in the infrared region. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14818-22	16.4	111

450	Comparative investigations of the crystal structure and photoluminescence property of eulytite-type Ba ₃ Eu(PO ₄) ₃ and Sr ₃ Eu(PO ₄) ₃ . <i>Dalton Transactions</i> , 2015 , 44, 7679-86	4.3	110
449	Mechanism for linear and nonlinear optical effects in monoclinic bismuth borate (BiB ₃ O ₆) crystal. <i>Journal of Applied Physics</i> , 2001 , 90, 5585-5590	2.5	108
448	Two Non- π -Conjugated Deep-UV Nonlinear Optical Sulfates. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3833-3837	16.4	107
447	Recent advances and future perspectives on infrared nonlinear optical metal halides. <i>Coordination Chemistry Reviews</i> , 2019 , 380, 83-102	23.2	103
446	Efficient and Selective CO ₂ Reduction Integrated with Organic Synthesis by Solar Energy. <i>Chem</i> , 2019 , 5, 2605-2616	16.2	102
445	First-Principles Design and Simulations Promote the Development of Nonlinear Optical Crystals. <i>Accounts of Chemical Research</i> , 2020 , 53, 209-217	24.3	101
444	First principles selection and design of mid-IR nonlinear optical halide crystals. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7363	7.1	99
443	ABi (IO) F (A=K, Rb, and Cs): A Combination of Halide and Oxide Anionic Units To Create a Large Second-Harmonic Generation Response with a Wide Bandgap. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9492-9496	16.4	96
442	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	6.3	96
441	Sb ³⁺ Dopant and Halogen Substitution Triggered Highly Efficient and Tunable Emission in Lead-Free Metal Halide Single Crystals. <i>Chemistry of Materials</i> , 2020 , 32, 5327-5334	9.6	96
440	AZn ₂ BO ₃ 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	9.6	95
439	Deep-Ultraviolet Transparent Cs ₂ LiPO ₄ Exhibits an Unprecedented Second Harmonic Generation. <i>Chemistry of Materials</i> , 2016 , 28, 7110-7116	9.6	92
438	Mechanism for linear and nonlinear optical effects in LiB ₃ O ₅ , CsB ₃ O ₅ , and CsLiB ₆ O ₁₀ crystals. <i>Physical Review B</i> , 2000 , 62, 1757-1764	3.3	92
437	LiGaGe ₂ Se ₆ : a new IR nonlinear optical material with low melting point. <i>Inorganic Chemistry</i> , 2012 , 51, 1035-40	5.1	90
436	PbGaF(SeO)Cl: Band Engineering Strategy by Aliovalent Substitution for Enlarging Bandgap while Keeping Strong Second Harmonic Generation Response. <i>Journal of the American Chemical Society</i> , 2019 , 141, 748-752	16.4	90
435	Near-Zero Thermal Expansion and High Ultraviolet Transparency in a Borate Crystal of Zn B O. <i>Advanced Materials</i> , 2016 , 28, 7936-7940	24	89
434	Bi ₂ (IO ₄)(IO ₃) ₃ : a new potential infrared nonlinear optical material containing [IO ₄](3-) anion. <i>Inorganic Chemistry</i> , 2011 , 50, 12818-22	5.1	88
433	Optically Modulated Ultra-Broad-Band Warm White Emission in Mn ²⁺ -Doped (C ₆ H ₁₈ N ₂ O ₂)PbBr ₄ Hybrid Metal Halide Phosphor. <i>Chemistry of Materials</i> , 2019 , 31, 5788-5795	9.6	87

432	Crystal Growth, Optical Properties Measurement, and Theoretical Calculation of BPO4. <i>Chemistry of Materials</i> , 2004 , 16, 2906-2908	9.6	87
431	Mechanism of linear and nonlinear optical effects of chalcopyrite AgGaX ₂ (X=S, Se, and Te) crystals. <i>Journal of Chemical Physics</i> , 2004 , 120, 8772-8	3.9	84
430	Perovskite-based nanocubes with simultaneously improved visible-light absorption and charge separation enabling efficient photocatalytic CO ₂ reduction. <i>Nano Energy</i> , 2016 , 30, 59-68	17.1	83
429	A new UV nonlinear optical material CsZn ₂ B ₃ O ₇ : ZnO ₄ tetrahedra double the efficiency of second-harmonic generation. <i>Inorganic Chemistry</i> , 2014 , 53, 2521-7	5.1	82
428	Prospects for Fluoride Carbonate Nonlinear Optical Crystals in the UV and Deep-UV Regions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25684-25692	3.8	82
427	Heavy Mn ²⁺ Doped MgAl ₂ O ₄ Phosphor for High-Efficient Near-Infrared Light-Emitting Diode and the Night-Vision Application. <i>Advanced Optical Materials</i> , 2019 , 7, 1901105	8.1	81
426	Pushing Nonlinear Optical Oxides into the Mid-Infrared Spectral Region Beyond 10 μ m: Design, Synthesis, and Characterization of LaSnGaO. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4684-4690	16.4	80
425	RbIO ₃ and RbIO ₂ F ₂ : Two Promising Nonlinear Optical Materials in Mid-IR Region and Influence of Partially Replacing Oxygen with Fluorine for Improving Laser Damage Threshold. <i>Chemistry of Materials</i> , 2016 , 28, 1413-1418	9.6	80
424	Mechanism of linear and nonlinear optical effects of KDP and urea crystals. <i>Journal of Chemical Physics</i> , 2003 , 118, 2349-2356	3.9	80
423	Molecular Construction Using (C ₃ N ₃ O ₃) ₃ ⁻ Anions: Analysis and Prospect for Inorganic Metal Cyanurates Nonlinear Optical Materials. <i>Crystal Growth and Design</i> , 2017 , 17, 4015-4020	3.5	79
422	Highly efficient hydrolysis of ammonia borane by anion (OH, F, Cl)-tuned interactions between reactant molecules and CoP nanoparticles. <i>Chemical Communications</i> , 2017 , 53, 705-708	5.8	79
421	Tunable thermal expansion in framework materials through redox intercalation. <i>Nature Communications</i> , 2017 , 8, 14441	17.4	76
420	Atomically Thin Mesoporous In ₂ O ₃ /In ₂ S ₃ Lateral Heterostructures Enabling Robust Broadband-Light Photo-Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1701114	21.8	75
419	Noncentrosymmetric chalcogenide NaBa ₄ Ge ₃ S ₁₀ Cl with large band gap and IR NLO response. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4590-4596	7.1	75
418	An outstanding second-harmonic generation material BiB ₂ O ₄ F: exploiting the electron-withdrawing ability of fluorine. <i>Inorganic Chemistry Frontiers</i> , 2015 , 2, 170-176	6.8	73
417	Microscopic characteristics of the Ag(111)/ZnO(0001) interface present in optical coatings. <i>Physical Review B</i> , 2007 , 75,	3.3	73
416	Electronic structure of RbSm(MoO ₄) ₂ and chemical bonding in molybdates. <i>Dalton Transactions</i> , 2015 , 44, 1805-15	4.3	71
415	Cooperation of Three Chromophores Generates the Water-Resistant Nitrate Nonlinear Optical Material Bi TeO OH(NO ₃). <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 540-544	16.4	70

414	An Unprecedented Antimony(III) Borate with Strong Linear and Nonlinear Optical Responses. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7793-7796	16.4	70
413	Ab initio studies on the mechanism for linear and nonlinear optical effects in $\text{YAl}_3(\text{BO}_3)_4$. <i>Journal of Applied Physics</i> , 2011 , 109, 103510	2.5	70
412	Novel Bi-based iodate photocatalysts with high photocatalytic activity. <i>Inorganic Chemistry Communication</i> , 2014 , 40, 215-219	3.1	69
411	Two novel nonlinear optical carbonates in the deep-ultraviolet region: KBeCO_3F and $\text{RbAlCO}_3\text{F}_2$. <i>Scientific Reports</i> , 2013 , 3, 1366	4.9	69
410	Metallic Co_2C : A Promising Co-catalyst To Boost Photocatalytic Hydrogen Evolution of Colloidal Quantum Dots. <i>ACS Catalysis</i> , 2018 , 8, 5890-5895	13.1	69
409	Two-Dimensional-Layered Perovskite ALaTaO:Bi (A = K and Na) Phosphors with Versatile Structures and Tunable Photoluminescence. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24648-24655	9.5	69
408	BaHgGeSe_4 and SrHgGeSe_4 : Two New Hg-Based Infrared Nonlinear Optical Materials. <i>Chemistry of Materials</i> , 2019 , 31, 3034-3040	9.6	68
407	Hg-Based Infrared Nonlinear Optical Material $\text{KHg}_4\text{Ga}_5\text{Se}_{12}$ Exhibits Good Phase-Matchability and Exceptional Second Harmonic Generation Response. <i>Chemistry of Materials</i> , 2017 , 29, 7993-8002	9.6	68
406	First-Principles Design of a Deep-Ultraviolet Nonlinear-Optical Crystal from $\text{KBe}_2\text{BO}_3\text{F}_2$ to $\text{NH}_4\text{Be}_2\text{BO}_3\text{F}_2$. <i>Inorganic Chemistry</i> , 2015 , 54, 10533-5	5.1	66
405	Single crystalline VO_2 nanosheets: A cathode material for sodium-ion batteries with high rate cycling performance. <i>Journal of Power Sources</i> , 2014 , 250, 181-187	8.9	65
404	$\text{K}_5(\text{W}_3\text{O}_9\text{F}_4)(\text{IO}_3)$: An Efficient Mid-Infrared Nonlinear Optical Compound with High Laser Damage Threshold. <i>Chemistry of Materials</i> , 2019 , 31, 10100-10108	9.6	64
403	PbGa_4S_7 : a wide-gap nonlinear optical material. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3060-3067	7.1	62
402	Strategy for the optical property studies in ultraviolet nonlinear optical crystals from density functional theory. <i>Computational Materials Science</i> , 2012 , 60, 99-104	3.2	62
401	$\text{NaSr}_3\text{Be}_3\text{B}_3\text{O}_9\text{F}_4$: A Promising Deep-Ultraviolet Nonlinear Optical Material Resulting from the Cooperative Alignment of the $[\text{Be}_3\text{B}_3\text{O}_{12}\text{F}]_{10}$ Anionic Group. <i>Angewandte Chemie</i> , 2011 , 123, 9307-9310 ⁶	10.6	61
400	$\text{Pb}_2\text{BO}_3\text{Br}$: a novel nonlinear optical lead borate bromine with a KBBF-type structure exhibiting strong nonlinear optical response. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 916-921	6.8	60
399	Flux Crystal Growth and the Electronic Structure of $\text{BaFe}_{12}\text{O}_{19}$ Hexaferrite. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5114-5123	3.8	60
398	Mechanism for linear and nonlinear optical effects in $\text{KBe}_2\text{BO}_3\text{F}_2$ (KBBF) crystal. <i>Chemical Physics Letters</i> , 2003 , 367, 523-527	2.5	57
397	Lead-Free Hybrid Metal Halides with a Green-Emissive $[\text{MnBr}]$ Unit as a Selective Turn-On Fluorescent Sensor for Acetone. <i>Inorganic Chemistry</i> , 2019 , 58, 13464-13470	5.1	56

396	Sr Cd Sb O S : Strong SHG Response Activated by Highly Polarizable Sb/O/S Groups. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8078-8081	16.4	56
395	Lone-Pair Enhanced Birefringence in an Alkaline-Earth Metal Tin(II) Phosphate BaSn (PO). <i>Chemistry - A European Journal</i> , 2019 , 25, 5648-5651	4.8	56
394	Theoretical calculations and predictions of the nonlinear optical coefficients of borate crystals. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, R369-R384	1.8	56
393	Regulating Second-Harmonic Generation by van der Waals Interactions in Two-dimensional Lead Halide Perovskite Nanosheets. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9134-9139	16.4	54
392	Midinfrared Nonlinear Optical Thiophosphates from LiZnPS4 to AgZnPS4: A Combined Experimental and Theoretical Study. <i>Inorganic Chemistry</i> , 2016 , 55, 3724-6	5.1	54
391	Giant Optical Anisotropy in the UV-Transparent 2D Nonlinear Optical Material Sc(IO) (NO). <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3464-3468	16.4	54
390	A combination of multiple chromophores enhances second-harmonic generation in a nonpolar noncentrosymmetric oxide: CdTeMoO6. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2906	7.1	53
389	Ba2M(C3N3O3)2 (M = Mg, Ca): potential UV birefringent materials with strengthened optical anisotropy originating from the (C3N3O3)3 group. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12879-12887 ¹	7.1	53
388	Metallic Bond-Enabled Wetting Behavior at the Liquid Ga/CuGa Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9203-9210	9.5	52
387	The role of dipole moment in determining the nonlinear optical behavior of materials: ab initio studies on quaternary molybdenum tellurite crystals. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 530-537	7.1	52
386	Mechanism of linear and nonlinear optical effects of chalcopyrites LiGaX2 (X=S, Se, and Te) crystals. <i>Journal of Applied Physics</i> , 2008 , 103, 083111	2.5	52
385	Nitrate nonlinear optical crystals: A survey on structure-performance relationships. <i>Coordination Chemistry Reviews</i> , 2019 , 400, 213045	23.2	50
384	Tailored Synthesis of a Nonlinear Optical Phosphate with a Short Absorption Edge. <i>Angewandte Chemie</i> , 2015 , 127, 4291-4295	3.6	50
383	Exploration on anion ordering, optical properties and electronic structure in K3WO3F3 elpasolite. <i>Journal of Solid State Chemistry</i> , 2012 , 187, 159-164	3.3	50
382	BaBe2BO3F3: A KBBF-Type Deep-Ultraviolet Nonlinear Optical Material with Reinforced [Be2BO3F2] Layers and Short Phase-Matching Wavelength. <i>Chemistry of Materials</i> , 2016 , 28, 8871-8875	9.6	50
381	Growth and structure redetermination of a nonlinear BaAlBO3F2 crystal. <i>Solid State Sciences</i> , 2011 , 13, 875-878	3.4	49
380	A new fourier transform approach for protein coding measure based on the format of the Z curve. <i>Bioinformatics</i> , 1998 , 14, 685-90	7.2	49
379	Room-Temperature Ultrabroadband Photodetection with MoS by Electronic-Structure Engineering Strategy. <i>Advanced Materials</i> , 2018 , 30, e1804858	24	49

378	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	7.1	47
377	A ₂ Bi ₅ O ₁₅ (A = K ⁺ or Rb ⁺): two new promising nonlinear optical materials containing [I ₃ O ₉] ³⁻ bridging anionic groups. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4057-4062	7.1	47
376	Designing a Deep-UV Nonlinear Optical Fluorooxosilicophosphate. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6472-6476	16.4	46
375	Inherent laws between tetrahedral arrangement pattern and optical performance in tetrahedron-based mid-infrared nonlinear optical materials. <i>Coordination Chemistry Reviews</i> , 2020 , 421, 213444	23.2	46
374	Large Second-Harmonic Response and Giant Birefringence of CeF(SO) Induced by Highly Polarizable Polyhedra. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4138-4142	16.4	46
373	Enhanced photocatalytic H ₂ -evolution by immobilizing CdS nanocrystals on ultrathin Co _{0.85} Se/RGO/PEI nanosheets. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18711-18717	13	45
372	Enhancing Photoluminescence Quantum Yield in 0D Metal Halides by Introducing Water Molecules. <i>Advanced Functional Materials</i> , 2020 , 30, 2002468	15.6	45
371	LiCsBO(OH): A Deep-Ultraviolet Nonlinear-Optical Mixed-Alkaline Borate Constructed by Unusual Heptaborate Anions. <i>Inorganic Chemistry</i> , 2019 , 58, 1755-1758	5.1	45
370	Colossal Volume Contraction in Strong Polar Perovskites of Pb(Ti,V)O. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14865-14868	16.4	44
369	Inorganic planar π -conjugated groups in nonlinear optical crystals: review and outlook. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 839-852	6.8	44
368	Bandgaps in the deep ultraviolet borate crystals: Prediction and improvement. <i>Applied Physics Letters</i> , 2013 , 102, 231904	3.4	44
367	BaAl ₄ Se ₇ : a new infrared nonlinear optical material with a large band gap. <i>Dalton Transactions</i> , 2011 , 40, 3610-5	4.3	44
366	Co-crystal LiCl(LiHCNO): a promising solar-blind nonlinear optical crystal with giant nonlinearity from coplanar π -conjugated groups. <i>Chemical Communications</i> , 2019 , 55, 6257-6260	5.8	42
365	Collaborative enhancement from Pb and F in Pb(NO)(HO)F generates the largest second harmonic generation effect among nitrates. <i>Chemical Communications</i> , 2017 , 53, 9398-9401	5.8	42
364	NH ₄ Be ₂ BO ₃ F ₂ and Be ₂ BO ₃ F: Overcoming the Layering Habit in KBe ₂ BO ₃ F ₂ for the Next-Generation Deep-Ultraviolet Nonlinear Optical Materials. <i>Angewandte Chemie</i> , 2018 , 130, 9106-9110	3.6	42
363	Rational Design of the Nonlinear Optical Response in a Tin Iodate Fluoride Sn(IO ₃) ₂ F ₂ . <i>Chemistry of Materials</i> , 2020 , 32, 2615-2620	9.6	41
362	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	6.4	41
361	LiGaGeS: A Chalcogenide with Good Infrared Nonlinear Optical Performance and Low Melting Point. <i>Inorganic Chemistry</i> , 2017 , 56, 13267-13273	5.1	40

360	ReBe ₂ B ₅ O ₁₁ (Re = Y, Gd): rare-earth beryllium borates as deep-ultraviolet nonlinear-optical materials. <i>Inorganic Chemistry</i> , 2014 , 53, 1952-4	5.1	40
359	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, 4851-7	24	40
358	Broadening Frontiers of Infrared Nonlinear Optical Materials with π -Conjugated Trigonal-Planar Groups. <i>Chemistry of Materials</i> , 2019 , 31, 1110-1117	9.6	40
357	A Deep-Ultraviolet Nonlinear Optical Crystal: Strontium Beryllium Borate Fluoride with Planar Be(O/F) ₃ Groups. <i>Chemistry of Materials</i> , 2016 , 28, 4563-4571	9.6	39
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75	Selenite bromide nonlinear optical materials PbGaF(SeO)Br and PbNbO(SeO)Br: synthesis and characterization. <i>Dalton Transactions</i> , 2020 , 49, 14046-14051	4.3	4
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