

Kang bin

List of Publications by Year in descending order

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papers

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687363

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#	ARTICLE	IF	CITATIONS
1	SrCdGeS ₄ and SrCdGeSe ₄ : Promising Infrared Nonlinear Optical Materials with Congruent-Melting Behavior. <i>Crystal Growth and Design</i> , 2019, 19, 1206-1214.	3.0	54
2	Ba ₃ (C ₃ N ₃ O ₃) ₂ : A New Phase of Barium Cyanurate Containing Parallel π -Conjugated Groups as a Birefringent Material Replacement for Calcite. <i>Crystal Growth and Design</i> , 2019, 19, 568-572.	3.0	49
3	From AgGaS ₂ to AgHgPS ₄ : vacancy defects and highly distorted HgS ₄ tetrahedra double-induced remarkable second-harmonic generation response. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1062-1068.	5.5	42
4	AXHg ₃ P ₂ S ₈ (A = Rb, Cs; X = Cl, Br): New Excellent Infrared Nonlinear Optical Materials with Mixed Anion Chalcogenide Groups of Trigonal Planar [Hg ₂ X] ³⁺ and Tetrahedral [Hg ₃ X] ⁵⁺ . <i>Advanced Optical Materials</i> , 2021, 9, 2100563.	7.3	41
5	Two Mixed-Anion Units of [GeSe ₃] and [GeO ₃ S] Originating from Partial Isovalent Anion Substitution and Inducing Moderate Second Harmonic Generation Response and Large Birefringence. <i>Inorganic Chemistry</i> , 2020, 59, 16716-16724.	4.0	39
6	Highly Distorted [HgS ₄] Motif-Driven Structural Symmetry Degradation and Strengthened Second-Harmonic Generation Response in the Defect Diamond-Like Chalcogenide Hg ₃ P ₂ S ₈ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37331-37338.	8.0	34
7	Ba ₂ M(C ₃ N ₃ O ₃) ₂ (M = Sr, Pb): Band Engineering from π - π Interaction via Homovalent Substitution in Metal Cyanurates Containing Planar π -Conjugated Groups. <i>Inorganic Chemistry</i> , 2019, 58, 9553-9556.	4.0	32
8	LiO ₄ tetrahedra lock the alignment of π -conjugated layers to maximize optical anisotropy in metal hydroisocyanurates. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2850-2854.	6.0	29
9	EuHgGeSe ₄ and EuHgSnS ₄ : Two Quaternary Eu-Based Infrared Nonlinear Optical Materials with Strong Second-Harmonic-Generation Responses. <i>Inorganic Chemistry</i> , 2020, 59, 18452-18460.	4.0	26
10	Designed synthesis and photophysical properties of multifunctional hybrid lanthanide complexes. <i>RSC Advances</i> , 2013, 3, 11367.	3.6	25
11	Syntheses, structures, optical properties, and electronic structures of KBaMSe ₃ (M = As, Sb). <i>Journal of Alloys and Compounds</i> , 2014, 617, 287-291.	5.5	19
12	Intriguing substitution of conducting layer triggered enhancement of thermoelectric performance in misfit-layered (SnS) _{1.2} (TiS ₂) ₂ . <i>Applied Physics Letters</i> , 2017, 110, .	3.3	17
13	Investigation into Structural Variation from 3D to 1D and Strong Second Harmonic Generation of the AHgPS ₄ (A ⁺ = Na ⁺ , K ⁺ , Rb ⁺ , Tl ⁺) Tj ETQq1 1 0.784314orgBT / Overlock 1		
14	“Two in one”: an unprecedented mixed anion, Ba ₂ (C ₃ N ₃ O ₃)(CNO), with the coexistence of isolated sp and sp ² π -conjugated groups. <i>Dalton Transactions</i> , 2019, 48, 14246-14250.	3.3	15
15	Thermal expansion and theoretical density of 2,2,4,4,6,6-hexanitrostilbene. <i>Journal of Materials Science</i> , 2011, 46, 2536-2540.	3.7	13
16	Structural modification from centrosymmetric Rb ₄ Hg ₂ Ge ₂ S ₈ to noncentrosymmetric (Na ₃ Rb)Hg ₂ Ge ₂ S ₈ : mixed alkali metals strategy for infrared nonlinear optical material design. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3300-3306.	5.5	13
17	Crystal Morphology Controlling of TATB by High Temperature Anti-Solvent Recrystallization. <i>Propellants, Explosives, Pyrotechnics</i> , 2012, 37, 172-178.	1.6	12
18	Thermoelectric modulation by intrinsic defects in superionic conductor Ag _x CrSe ₂ . <i>Applied Physics Letters</i> , 2020, 116, .	3.3	11

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19	Reducing Effective Mass for Advancing Thermoelectrics in Sb/Bi-Doped AgCrSe ₂ Compounds. ACS Applied Materials & Interfaces, 2020, 12, 36347-36354.	8.0	7
20	Structural Diversity and Giant Birefringence in Cyanates BaCNOX (X = Cl, Br, I, and CNO) Containing Linear π -Conjugated Units: A Combined Experimental and Theoretical Study. Crystal Growth and Design, 2020, 20, 1242-1247.	3.0	6
21	SrAgAsS ₄ : A Noncentrosymmetric Sulfide with Good Infrared Nonlinear Optical Performance Induced by Aliovalent Substitution from Centrosymmetric SrGa ₂ S ₄ . Inorganic Chemistry, 2022, 61, 9205-9212.	4.0	6
22	Microwave dielectric properties of Nd:YAG transparent ceramics. Journal of Materials Science: Materials in Electronics, 2016, 27, 9767-9771.	2.2	5
23	New quaternary chalcogenide Ba ₄ HgAs ₂ S ₁₀ originating from the combination of linear [HgS ₂] ²⁺ and tetrahedral [AsS ₄] ³⁻ modules. Dalton Transactions, 2020, 49, 13060-13065.	3.3	4
24	Alloying Cr ₂ /3Te in AgCrSe ₂ compound for improving thermoelectrics. Applied Physics Letters, 2021, 118, 193902.	3.3	3
25	The synthesis and structure-property relation analysis of metal chalcogenide crystals Cs ₂ InPS ₄ X ₂ (X = Cl, Br) with mixed anions. Dalton Transactions, 2022, 51, 4728-4733.	3.3	1