Kang bin

List of Publications by Year
in descending order

25 papers	519 citations	687363 13 h-index	677142 22 g-index
25 all docs	25 docs citations	25 times ranked	385 citing authors

#	Article	IF	Citations
1	Structural modification from centrosymmetric Rb₄Hg₂Ge₂S₈ to noncentrosymmetric (Na₃Rb)Hg₂Ge₂S₈: mixed alkali metals strategy for infrared nonlinear optical material design. Journal of Materials Chemistry C, 2022, 10, 3300-3306.	5.5	13
2	The synthesis and structureâ€“property relation analysis of metal chalcohalide crystals Cs₂InPS₄X₂ (X = Cl, Br) with mixed anions. Dalton Transactions, 2022, 51, 4728-4733.	3.3	1
3	SrAgAsS₄: A Noncentrosymmetric Sulfide with Good Infrared Nonlinear Optical Performance Induced by Aliovalent Substitution from Centrosymmetric SrGa₂S₄. Inorganic Chemistry, 2022, 61, 9205-9212.	4.0	6
4	From AgGaS₂to AgHgPS₄: vacancy defects and highly distorted HgS₄tetrahedra double-induced remarkable second-harmonic generation response. Journal of Materials Chemistry C, 2021, 9, 1062-1068.	5.5	42
5	AXHg₃P₂S₈ (A = Rb, Cs; X = Cl, Br): New Excellent Infrared Nonlinear Optical Materials with Mixedâ€Anion Chalcohalide Groups of Trigonal Planar [HgS₂X]^{3â^’} and Tetrahedral [HgS₃X]^{5â^’}. Advanced Optical Materials, 2021, 9, 2100563.	7.3	41
6	Alloying Cr2/3Te in AgCrSe2 compound for improving thermoelectrics. Applied Physics Letters, 2021, 118, 193902.	3.3	3
7	Highly Distorted [HgS₄] Motif-Driven Structural Symmetry Degradation and Strengthened Second-Harmonic Generation Response in the Defect Diamond-Like Chalcogenide Hg₃P₂S₈. ACS Applied Materials & Interfaces, 2021, 13, 37331-37338.	8.0	34
8	Investigation into Structural Variation from 3D to 1D and Strong Second Harmonic Generation of the AHgPS₄ (A⁺ = Na⁺, K⁺, Rb⁺,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 45	4.0	10
9	Structural Diversity and Giant Birefringence in Cyanates BaCNOX (X = Cl, Br, I, and CNO) Containing Linear Ï€-Conjugated Units: A Combined Experimental and Theoretical Study. Crystal Growth and Design, 2020, 20, 1242-1247.	3.0	6
10	Reducing Effective Mass for Advancing Thermoelectrics in Sb/Bi-Doped AgCrSe₂ Compounds. ACS Applied Materials & Interfaces, 2020, 12, 36347-36354.	8.0	7
11	EuHgGeSe₄ and EuHgSnS₄: Two Quaternary Eu-Based Infrared Nonlinear Optical Materials with Strong Second-Harmonic-Generation Responses. Inorganic Chemistry, 2020, 59, 18452-18460.	4.0	26
12	Two Mixed-Anion Units of [GeOSe₃] and [GeO₃S] Originating from Partial Isovalent Anion Substitution and Inducing Moderate Second Harmonic Generation Response and Large Birefringence. Inorganic Chemistry, 2020, 59, 16716-16724.	4.0	39
13	New quaternary chalcogenide Ba4HgAs2S10 originating from the combination of linear [HgS2]2â^’ and tetrahedral [AsS4]3â^’ modules. Dalton Transactions, 2020, 49, 13060-13065.	3.3	4
14	Thermoelectric modulation by intrinsic defects in superionic conductor AgxCrSe2. Applied Physics Letters, 2020, 116, .	3.3	11
15	Ba₂M(C₃N₃O₃)₂ (M = Sr, Pb): Band Engineering from pâ^’Ï€ Interaction via Homovalent Substitution in Metal Cyanurates Containing Planar Ï€-Conjugated Groups. Inorganic Chemistry, 2019, 58, 9553-9556.	4.0	32
16	â€œTwo in oneâ€• an unprecedented mixed anion, Ba₂(C₃N₃O₃)(CNO), with the coexistence of isolated sp and sp² Ï€-conjugated groups. Dalton Transactions, 2019, 48, 14246-14250.	3.3	15
17	LiO₄tetrahedra lock the alignment of Ï€-conjugated layers to maximize optical anisotropy in metal hydroisocyanurates. Inorganic Chemistry Frontiers, 2019, 6, 2850-2854.	6.0	29
18	Ba₃(C₃N₃O₃)₂: A New Phase of Barium Cyanurate Containing Parallel Ï€-Conjugated Groups as a Birefringent Material Replacement for Calcite. Crystal Growth and Design, 2019, 19, 568-572.	3.0	49

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19	SrCdGeS₄ and SrCdGeSe₄: Promising Infrared Nonlinear Optical Materials with Congruent-Melting Behavior. Crystal Growth and Design, 2019, 19, 1206-1214.	3.0	54
20	Intriguing substitution of conducting layer triggered enhancement of thermoelectric performance in misfit-layered (SnS)1.2(TiS2)2. Applied Physics Letters, 2017, 110, .	3.3	17
21	Microwave dielectric properties of Nd:YAG transparent ceramics. Journal of Materials Science: Materials in Electronics, 2016, 27, 9767-9771.	2.2	5
22	Syntheses, structures, optical properties, and electronic structures of KBaMSe 3 (M = As, Sb). Journal of Alloys and Compounds, 2014, 617, 287-291.	5.5	19
23	Designed synthesis and photophysical properties of multifunctional hybrid lanthanide complexes. RSC Advances, 2013, 3, 11367.	3.6	25
24	Crystal Morphology Controlling of TATB by High Temperature Anti-Solvent Recrystallization. Propellants, Explosives, Pyrotechnics, 2012, 37, 172-178.	1.6	12
25	Thermal expansion and theoretical density of 2,2â€²,4,4â€²,6,6â€²-hexanitrostilbene. Journal of Materials Science, 2011, 46, 2536-2540.	3.7	13