

Hongil Jo

List of Publications by Year in descending order

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papers

1,876
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361045

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264894

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#	ARTICLE	IF	CITATIONS
1	Chiral Template-Driven Macroscopic Chirality Control: Structure-Second-Harmonic Generation Properties Relationship. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 426-434.	1.0	20
2	Unique synthesis, structure determination, and optical properties of seven new layered rare earth tellurite nitrates, RE(TeO ₃)(NO ₃) (RE = La, Nd, Eu, Gd, Dy, Er, and Y). <i>Journal of Alloys and Compounds</i> , 2021, 851, 156855.	2.8	8
3	Early stage of the single-crystal growth and tipping point of the cationic site preference in Gd-doped Zintl phase thermoelectric materials. <i>CrystEngComm</i> , 2021, 23, 7097-7107.	1.3	2
4	Order and Disorder: Toward the Thermodynamically Stable \pm -BaMoO ₂ F ₄ from the Metastable Polymorph. <i>Chemistry of Materials</i> , 2021, 33, 1875-1882.	3.2	21
5	Catalytic and Enantioselective Control of the C-N Stereogenic Axis via the Pictet-Spengler Reaction. <i>Angewandte Chemie</i> , 2021, 133, 12387-12391.	1.6	18
6	l ³ O ⁰ -Type 3D Framework of Cobalt Cinnamate and Its Efficient Electrocatalytic Activity toward the Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2021, 33, 2804-2813.	3.2	9
7	Catalytic and Enantioselective Control of the C-N Stereogenic Axis via the Pictet-Spengler Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12279-12283.	7.2	65
8	A new bismuth coordination polymer with proton conductivity and orange-red photoluminescence. <i>Journal of Coordination Chemistry</i> , 2021, 74, 1810-1822.	0.8	3
9	Sr ₂ Nb ₆ O ₁₃ F ₈ ·4H ₂ O and Sr ₃ Nb ₂ O ₂ F ₁₂ ·2H ₂ O: A Variant of Three-Dimensional Tungsten Bronze and a Polar Molecular Oxide Fluoride. <i>Inorganic Chemistry</i> , 2021, 60, 7914-7921.	1.9	14
10	l ^p -Type Double Doping and the Diamond-like Morphology Shift of the Zintl Phase Thermoelectric Materials: The Ca ₁₁ As _x Sb ₁₀ Ge _z (A = Tj, Tl, Q, O, G, r, B, T, Ove)	1.7	9
11	Chemistry, 2021, 60, 10124-10136. p-Type to n-Type Conversion through the "Bypass" Phase Transition in the Zintl-Phase Thermoelectric Materials. <i>Chemistry of Materials</i> , 2021, 33, 6761-6773.	3.2	10
12	Transition metal ion co-doped MgO-MgF ₂ -GeO ₂ :Mn ⁴⁺ red phosphors for white LEDs with wider color reproduction gamut. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152914.	2.8	7
13	Synthesis, Structure, and Characterization of Variable Chains in a Series of Transition Metal Coordination Compounds. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 452-460.	1.0	6
14	Synthesis, structure, and third-harmonic generation measurements of a mixed alkali metal iodate, KLi ₂ (IO ₃) ₃ . <i>Journal of Solid State Chemistry</i> , 2020, 282, 121120.	1.4	14
15	Two Steps to Improve the Thermoelectric Performance of the Ca ₅ YbAl ₂ In ₃ Sb ₆ System. <i>Inorganic Chemistry</i> , 2020, 59, 13572-13582.	1.9	9
16	Site-Selective n-Type Heavy-Rare-Earth-Metal Doping in the Complex Zintl Phase Ca ₁₁ RE _x Sb ₁₀ (RE = Tb, Dy, Ho, Er, Tm). <i>Crystal Growth and Design</i> , 2020, 20, 4503-4511.	1.4	11
17	Second-Harmonic Generation and Photoluminescence Properties of Sn(II)- and Bi(III)-Based Lone Pair Cation-Pyridine Dicarboxylate Coordination Compounds. <i>Inorganic Chemistry</i> , 2020, 59, 11554-11561.	1.9	12
18	Noncovalent Intermolecular Interaction in Cofacially Stacked 24 π Antiaromatic Hexaphyrin Dimer. <i>Chemistry - A European Journal</i> , 2020, 26, 16434-16440.	1.7	8

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19	Lead Mixed Oxyhalides Satisfying All Fundamental Requirements for High-Performance Mid-Infrared Nonlinear Optical Materials. <i>Angewandte Chemie</i> , 2020, 132, 7584-7590.	1.6	44
20	Lead Mixed Oxyhalides Satisfying All Fundamental Requirements for High-Performance Mid-Infrared Nonlinear Optical Materials. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7514-7520.	7.2	120
21	Bi ₃ (SeO ₃) ₃ (Se ₂ O ₅)F: A Polar Bismuth Selenite Fluoride with Polyhedra of Highly Distortive Lone Pair Cations and Strong Second-Harmonic Generation Response. <i>Chemistry of Materials</i> , 2020, 32, 7318-7326.	3.2	42
22	Chemical Driving Force for Phase-Transition in the Ca ₂ RE ₂ CdSb ₂ (RE = Yb, Eu; 0.11(1) at %) Γ_4^+ Topological Anomalous Semimetal. <i>Chemistry of Materials</i> , 2020, 32, 1400-1407.	1.0	0
23	Experimental and Theoretical Investigations for the Quaternary Mixed-Cation Zintl Phase Ca _{1.82(1)} Eu _{0.18} CdSb ₂ . <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 245-247.	1.0	5
24	Innentitelbild: Lead Mixed Oxyhalides Satisfying All Fundamental Requirements for High-Performance Mid-Infrared Nonlinear Optical Materials (Angew. Chem. 19/2020). <i>Angewandte Chemie</i> , 2020, 132, 7342-7342.	1.6	0
25	Influence of structure-directing polyhedra and heterocyclic ligands on the chain structures and O/F ordering in a series of zinc vanadium oxyfluorides. <i>CrystEngComm</i> , 2020, 22, 3206-3214.	1.3	1
26	Thiostannate coordination transformation-induced self-crosslinking chalcogenide aerogel with local coordination control and effective Cs ⁺ remediation functionality. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3468-3480.	5.2	14
27	Histidinium-Driven Chirality Control of Self-Assembled Hybrid Molybdenum Oxyfluorides. <i>Chemistry - A European Journal</i> , 2019, 25, 15871-15878.	1.7	17
28	Lead-Organic Frameworks Containing Trimesic Acid: Facile Dissolution-Crystallization and Near-White Light Emission. <i>Crystal Growth and Design</i> , 2019, 19, 6274-6282.	1.4	12
29	Bi ₂ Te ₂ O ₆ (NO ₃) ₂ (OH) ₂ (H ₂ O): A layered bismuth tellurium nitrate hydroxide with multiple noncentrosymmetric chromophores. <i>Journal of Solid State Chemistry</i> , 2019, 271, 298-302.	1.4	13
30	Trapping of Stable [4n+1] π -Electron Species from Peripherally Substituted, Conformationally Rigid, Antiaromatic Hexaphyrins. <i>Chemistry - A European Journal</i> , 2019, 25, 3525-3531.	1.7	12
31	Mixed Transition Metal (Oxy)fluoride Paramagnet Chains: Synthesis, Structure, and Characterization. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3112-3119.	1.0	3
32	Variable Chains Found in Mixed Transition Metal Oxyfluorides with Heterocyclic Ligands. <i>Crystal Growth and Design</i> , 2019, 19, 3435-3444.	1.4	3
33	<i>meso</i> -Bis(ethynyl) Versus <i>meso</i> -Bis(aryl) Calix[4]pyrroles: Dimensionally Well-Modulated Receptors That Can Regulate the Anion Binding Domains. <i>Journal of Organic Chemistry</i> , 2019, 84, 6851-6857.	1.7	6
34	Effect of Rare-Earth Metals Substitution for Ca on the Crystal Structure and Thermoelectric Properties of the Ca ₁₁ RE ₁₀ Sb ₁₀ System. <i>Crystal Growth and Design</i> , 2019, 19, 3498-3508.	1.4	13
35	Crystals of Sb ³⁺ -coordination complexes exhibiting yellowish green emissions with outstanding lifetimes. <i>Journal of Solid State Chemistry</i> , 2019, 274, 69-74.	1.4	7
36	Layered Bismuth Oxyfluoride Nitrates Revealing Large Second-Harmonic Generation and Photocatalytic Properties. <i>Inorganic Chemistry</i> , 2019, 58, 2183-2190.	1.9	30

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37	Strategies for Fabrication of Hydrophobic Porous Materials Based on Polydimethylsiloxane for Oil-Water Separation. <i>Macromolecular Research</i> , 2019, 27, 109-114.	1.0	23
38	$\text{Li}_6\text{M}(\text{SeO}_3)_4$ (M = Co, Ni, and Cd) and $\text{Li}_2\text{Zn}(\text{SeO}_3)_2$: Selenites with Late Transition-Metal Cations. <i>Inorganic Chemistry</i> , 2018, 57, 3465-3473.	1.9	27
39	$\text{Pb}[\text{NC}_5\text{H}_3(\text{CO}_2)_2]_2$: a white light emitting single component coordination polymer revealing high quantum efficiency and thermal stability. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1273-1276.	3.0	22
40	Synthesis, second-harmonic generation (SHG), and photoluminescence (PL) properties of noncentrosymmetric bismuth selenite solid solutions, $\text{Bi}_{2-x}\text{Ln}_x\text{SeO}_5$ (Ln = La and Eu; $x \approx 0.3$). <i>Solid State Sciences</i> , 2018, 76, 105-110.	1.5	1
41	Preparation of a $\text{Sr}_{2-x}\text{Eu}_x\text{Si}_5\text{N}_8$ Phosphor Using an Ion Transporter. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R3001-R3005.	0.9	3
42	$\text{Cs}_3\text{VO}(\text{O})_2\text{CO}_3$: an exceptionally thermostable carbonatoperoxovanadate with an extremely large second-harmonic generation response. <i>Chemical Science</i> , 2018, 9, 8957-8961.	3.7	107
43	Solvothermal Synthesis of Ferroelectric BaTiO_3 Nanoparticles and Their Application to Dye-sensitized Solar Cells. <i>Journal of the Korean Physical Society</i> , 2018, 73, 627-631.	0.3	9
44	$\text{Rb}_3\text{VO}(\text{O})_2\text{CO}_3$: A Four-Coordinate Carbonatoperoxovanadate Exhibiting an Extremely Strong Second-Harmonic Generation Response. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8619-8622.	7.2	172
45	Variable Asymmetric Chains in Transition Metal Oxyfluorides: Structure-Second-Harmonic-Generation Property Relationships. <i>Inorganic Chemistry</i> , 2018, 57, 6702-6709.	1.9	14
46	$\text{Rb}_3\text{VO}(\text{O})_2\text{CO}_3$: A Four-Coordinate Carbonatoperoxovanadate Exhibiting an Extremely Strong Second-Harmonic Generation Response. <i>Angewandte Chemie</i> , 2018, 130, 8755-8758.	1.6	39
47	A series of oxyfluoride chains containing asymmetric basic building units of both early- and late-transition metal cations. <i>Journal of Solid State Chemistry</i> , 2018, 267, 140-145.	1.4	3
48	Unexpected halide anion binding modes in <i>meso</i> -bis-ethynyl picket-calix[4]pyrroles: effects of <i>meso</i> -ethynyl extension. <i>Chemical Communications</i> , 2018, 54, 7936-7939.	2.2	6
49	Influence of Thermally Activated Solid-State Crystal-to-Crystal Structural Transformation on the Thermoelectric Properties of the $\text{Ca}_5\text{Al}_2\text{Sb}_6\text{Yb}_x$ (1.0 at% to 5.0) System. <i>Chemistry of Materials</i> , 2017, 29, 1384-1395.	3.2	20
50	Hexagonal tungsten oxide nanoflowers as enzymatic mimetics and electrocatalysts. <i>Scientific Reports</i> , 2017, 7, 40928.	1.6	29
51	Synthesis, second-harmonic generations (SHG), and photoluminescence (PL) properties of $\text{Ca}_4\text{Bi}_{6-x}\text{Ln}_x\text{O}_{13}$ (Ln=La and Eu) solid solutions. <i>Journal of Solid State Chemistry</i> , 2017, 252, 28-32.	1.4	2
52	Syntheses, Structures, and Characterization of Quaternary Tellurites, $\text{Li}_3\text{MTe}_4\text{O}_{11}$ (M = Al, Ga, and Fe). <i>Inorganic Chemistry</i> , 2017, 56, 5873-5879.	1.9	10
53	Effect of Multi-Substitution on the Thermoelectric Performance of the $\text{Ca}_{11}\text{Yb}_x\text{Sb}_{10}\text{Ge}_z$ (0 at% to 19 at%) System. <i>Chemistry</i> , 2017, 56, 7099-7110.	1.9	19
54	Photoconversion Mechanisms and the Origin of Second-Harmonic Generation in Metal Iodates with Wide Transparency, $\text{NaLn}(\text{IO}_3)_4$ (Ln = La, Ce, Sm, and Eu) and $\text{NaLa}(\text{IO}_3)_4\text{:Ln}^{3+}$ (Ln = Sm and Eu). <i>Inorganic Chemistry</i> , 2017, 56, 6973-6981.	1.9	24

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55	Major Role of Surface Area in Perovskite Electrocatalysts for Alkaline Systems. <i>ChemElectroChem</i> , 2017, 4, 468-471.	1.7	10
56	Noncentrosymmetric (NCS) solid solutions: elucidating the structure–nonlinear optical (NLO) property relationship and beyond. <i>Dalton Transactions</i> , 2017, 46, 15628-15635.	1.6	16
57	New quaternary alkali metal cadmium selenites, $A_2Cd(SeO_3)_2$ (A = K, Rb, and Cs) and $Li_2Cd_3(SeO_3)_4$. <i>Journal of Solid State Chemistry</i> , 2017, 256, 213-218.	1.4	1
58	BF_2 -Complexes of Carbazole–Benzimidazole Conjugates: Synthesis, Structures, and Spectroscopic Properties. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 1163-1168.	1.0	6
59	$Li_{13}Mn(SeO_3)_8$: Lithium-Rich Transition Metal Selenite Containing Jahn–Teller Distortive Cations. <i>Inorganic Chemistry</i> , 2017, 56, 9369-9375.	1.9	3
60	Variable dimensionality and framework found in a series of quaternary zinc selenites, $A_2Zn_3(SeO_3)_4 \cdot xH_2O$ (A = Na, Rb, and Cs; $0 \leq x \leq 1$) and $Cs_2Zn_2(SeO_3)_3 \cdot 2H_2O$. <i>Journal of Solid State Chemistry</i> , 2017, 245, 1-9.	1.4	2
61	$Rb_2Na(NO_3)_3$: A Congruently Melting UV-NLO Crystal with a Very Strong Second-Harmonic Generation Response. <i>Crystals</i> , 2016, 6, 42.	1.0	65
62	Cationic Site-Preference in the $Yb_{14-x}Ca_xAlSb_{11}$ ($4.81 \leq x \leq 10.57$) Series: Theoretical and Experimental Studies. <i>Materials</i> , 2016, 9, 553.	1.3	14
63	Polar Noncentrosymmetric $ZnMoSb_2O_7$ and Nonpolar Centrosymmetric $CdMoSb_4O_{10}$: d ¹⁰ Transition Metal Size Effect Influencing the Stoichiometry and the Centricity. <i>Inorganic Chemistry</i> , 2016, 55, 6286-6293.	1.9	35
64	Nonlinear optical (NLO) properties and temperature-dependent photoluminescence in activator-doped noncentrosymmetric (NCS) bismuth tellurite solid solutions, $Bi_2 \sim Ln TeO_5$ (Ln = Ce and Eu). <i>Journal of Alloys and Compounds</i> , 2016, 672, 470-475.	2.8	6
65	Influence of Ca-doping in layered perovskite $PrBaCo_2O_{5+\delta}$ on the phase transition and cathodic performance of a solid oxide fuel cell. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6479-6486.	5.2	64
66	Pb_2BO_3Cl : A Tailor-Made Polar Lead Borate Chloride with Very Strong Second Harmonic Generation. <i>Angewandte Chemie</i> , 2016, 128, 12257-12261.	1.6	119
67	Crystal Structure, ⁷ Li NMR, and Structural Relationship of Two Rare-Earth Metal Richer Polar Intermetallics: $La_{15}Ge_9Li_{1.50(16)}$ and La_7Ge_3 . <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 1344-1353.	1.0	3
68	Pb_2BO_3Cl : A Tailor-Made Polar Lead Borate Chloride with Very Strong Second Harmonic Generation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12078-12082.	7.2	315
69	A Polar Titanium–Organic Chain with a Very Large Second-Harmonic-Generation Response. <i>Inorganic Chemistry</i> , 2016, 55, 11635-11638.	1.9	5
70	$ACdCO_3F$ (A = K and Rb): new noncentrosymmetric materials with remarkably strong second-harmonic generation (SHG) responses enhanced via π -interaction. <i>RSC Advances</i> , 2015, 5, 84754-84761.	1.7	58
71	Effect of polarizable lone pair cations on the second-harmonic generation (SHG) properties of noncentrosymmetric (NCS) $Bi_{2-2x}Y_xTeO_5$ ($x = 0 \sim 0.2$). <i>Dalton Transactions</i> , 2014, 43, 11752.	1.6	22