Hongil Jo

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2695087/publications.pdf

Version: 2024-02-01

71 papers	1,876 citations	361045 20 h-index	264894 42 g-index
77 all docs	77 docs citations	77 times ranked	1060 citing authors

#	Article	IF	Citations
1	Pb₂BO₃Cl: A Tailorâ€Made Polar Lead Borate Chloride with Very Strong Second Harmonic Generation. Angewandte Chemie - International Edition, 2016, 55, 12078-12082.	7.2	315
2	Rb₃VO(O₂)₂CO₃: A Fourâ€inâ€One Carbonatoperoxovanadate Exhibiting an Extremely Strong Secondâ€Harmonic Generation Response. Angewandte Chemie - International Edition, 2018, 57, 8619-8622.	7.2	172
3	Lead Mixed Oxyhalides Satisfying All Fundamental Requirements for Highâ€Performance Midâ€Infrared Nonlinear Optical Materials. Angewandte Chemie - International Edition, 2020, 59, 7514-7520.	7.2	120
4	Pb₂BO₃Cl: A Tailorâ€Made Polar Lead Borate Chloride with Very Strong Second Harmonic Generation. Angewandte Chemie, 2016, 128, 12257-12261.	1.6	119
5	Cs₃VO(O₂)₂CO₃: an exceptionally thermostable carbonatoperoxovanadate with an extremely large second-harmonic generation response. Chemical Science, 2018, 9, 8957-8961.	3.7	107
6	Rb2Na(NO3)3: A Congruently Melting UV-NLO Crystal with a Very Strong Second-Harmonic Generation Response. Crystals, 2016, 6, 42.	1.0	65
7	Catalytic and Enantioselective Control of the Câ€“N Stereogenic Axis via the Pictetâ€“Spengler Reaction. Angewandte Chemie - International Edition, 2021, 60, 12279-12283.	7.2	65
8	Influence of Ca-doping in layered perovskite PrBaCo₂O_{5+Î´} on the phase transition and cathodic performance of a solid oxide fuel cell. Journal of Materials Chemistry A, 2016, 4, 6479-6486.	5.2	64
9	ACdCO₃F (A = K and Rb): new noncentrosymmetric materials with remarkably strong second-harmonic generation (SHG) responses enhanced via Ï€-interaction. RSC Advances, 2015, 5, 84754-84761.	1.7	58
10	Lead Mixed Oxyhalides Satisfying All Fundamental Requirements for Highâ€Performance Midâ€Infrared Nonlinear Optical Materials. Angewandte Chemie, 2020, 132, 7584-7590.	1.6	44
11	Bi₃(SeO₃)₃(Se₂O₅)F: A Polar Bismuth Selenite Fluoride with Polyhedra of Highly Distortive Lone Pair Cations and Strong Second-Harmonic Generation Response. Chemistry of Materials, 2020, 32, 7318-7326.	3.2	42
12	Rb 3 VO(O 2) 2 CO 3 : A Fourâ€inâ€One Carbonatoperoxovanadate Exhibiting an Extremely Strong Secondâ€Harmonic Generation Response. Angewandte Chemie, 2018, 130, 8755-8758.	1.6	39
13	Polar Noncentrosymmetric ZnMoSb₂O₇ and Nonpolar Centrosymmetric CdMoSb₄O₁₀: d¹⁰ Transition Metal Size Effect Influencing the Stoichiometry and the Centricity. Inorganic Chemistry, 2016, 55, 6286-6293.	1.9	35
14	Layered Bismuth Oxyfluoride Nitrates Revealing Large Second-Harmonic Generation and Photocatalytic Properties. Inorganic Chemistry, 2019, 58, 2183-2190.	1.9	30
15	Hexagonal tungsten oxide nanoflowers as enzymatic mimetics and electrocatalysts. Scientific Reports, 2017, 7, 40928.	1.6	29
16	Li₆M(SeO₃)₄ (M = Co, Ni, and Cd) and Li₂Zn(SeO₃)₂: Selenites with Late Transition-Metal Cations. Inorganic Chemistry, 2018, 57, 3465-3473.	1.9	27
17	Photoconversion Mechanisms and the Origin of Second-Harmonic Generation in Metal Iodates with Wide Transparency, NaLn(IO₃)₄ (Ln = La, Ce, Sm, and Eu) and NaLa(IO₃)₄:Ln³⁺ (Ln = Sm and Eu). Inorganic Chemistry, 2017, 56, 6973-6981.	1.9	24
18	Strategies for Fabrication of Hydrophobic Porous Materials Based on Polydimethylsiloxane for Oil-Water Separation. Macromolecular Research, 2019, 27, 109-114.	1.0	23

#	Article	IF	Citations
19	Effect of polarizable lone pair cations on the second-harmonic generation (SHG) properties of noncentrosymmetric (NCS) Bi_{2â^'x}Y_xTeO₅(x = 0â€“0.2). Dalton Transactions, 2014, 43, 11752.	1.6	22
20	Pb[NC₅H₃(CO₂)₂]: a white light emitting single component coordination polymer revealing high quantum efficiency and thermal stability. Inorganic Chemistry Frontiers, 2018, 5, 1273-1276.	3.0	22
21	Order and Disorder: Toward the Thermodynamically Stable Î±-BaMoO₂F₄ from the Metastable Polymorph. Chemistry of Materials, 2021, 33, 1875-1882.	3.2	21
22	Influence of Thermally Activated Solid-State Crystal-to-Crystal Structural Transformation on the Thermoelectric Properties of the Ca_{5â€“x}Yb_xAl₂Sb₆ (1.0 â‰¤ x â‰¤ 5.0) System. Chemistry of Materials, 2017, 29, 1384-1395.	3.2	20
23	Chiral Templateâ€Driven Macroscopic Chirality Control: Structureâ€Secondâ€Harmonic Generation Properties Relationship. European Journal of Inorganic Chemistry, 2021, 2021, 426-434.	1.0	20
24	Effect of MultiSubstitution on the Thermoelectric Performance of the Ca_{11â^'x}Yb_xSb_{10â^'y}Ge_z (0 â‰¤ Tj ETQq0 0 0 rgBT /Ov Chemistry, 2017, 56, 7099-7110.	1.9	19
25	Catalytic and Enantioselective Control of the Câ€“N Stereogenic Axis via the Pictetâ€“Spengler Reaction. Angewandte Chemie, 2021, 133, 12387-12391.	1.6	18
26	Histidiniumâ€Driven Chirality Control of Selfâ€Assembled Hybrid Molybdenum Oxyfluorides. Chemistry - A European Journal, 2019, 25, 15871-15878.	1.7	17
27	Noncentrosymmetric (NCS) solid solutions: elucidating the structureâ€“nonlinear optical (NLO) property relationship and beyond. Dalton Transactions, 2017, 46, 15628-15635.	1.6	16
28	Cationic Site-Preference in the Yb14-xCaxAlSb11 (4.81 â‰¤ x â‰¤ 10.57) Series: Theoretical and Experimental Studies. Materials, 2016, 9, 553.	1.3	14
29	Variable Asymmetric Chains in Transition Metal Oxyfluorides: Structureâ€“Second-Harmonic-Generation Property Relationships. Inorganic Chemistry, 2018, 57, 6702-6709.	1.9	14
30	Synthesis, structure, and third-harmonic generation measurements of a mixed alkali metal iodate, KLi2(IO3)3. Journal of Solid State Chemistry, 2020, 282, 121120.	1.4	14
31	Chemical Driving Force for Phase-Transition in the Ca_{2â€“x}RE_xCdSb₂ (RE = Yb, Eu; 0.11(1) â‰¤ x) Tj ETQq1 1 0.7843	1.4	14
32	Sr₂Nb₆O₁₃F₈·4H₂O and Sr₃Nb₂O₂F₁₂·2H₂O: A Variant of Three-Dimensional Tungsten Bronze and a Polar Molecular Oxide Fluoride. Inorganic Chemistry, 2021, 60, 7914-7921.	1.9	14
33	Thiostannate coordination transformation-induced self-crosslinking chalcogenide aerogel with local coordination control and effective Cs⁺ remediation functionality. Journal of Materials Chemistry A, 2020, 8, 3468-3480.	5.2	14
34	Bi2Te2O6(NO3)2(OH)2(H2O): A layered bismuth tellurium nitrate hydroxide with multiple noncentrosymmetric chromophores. Journal of Solid State Chemistry, 2019, 271, 298-302.	1.4	13
35	Effect of Rare-Earth Metals Substitution for Ca on the Crystal Structure and Thermoelectric Properties of the Ca_{11â€“x}RE_xSb_{10â€“y} System. Crystal Growth and Design, 2019, 19, 3498-3508.	1.4	13
36	Leadâ€“Organic Frameworks Containing Trimesic Acid: Facile Dissolutionâ€“Crystallization and Near-White Light Emission. Crystal Growth and Design, 2019, 19, 6274-6282.	1.4	12

#	Article	IF	Citations
37	Trapping of Stable [4n+1] Ï€â€Electron Species from Peripherally Substituted, Conformationally Rigid, Antiaromatic Hexaphyrins. Chemistry - A European Journal, 2019, 25, 3525-3531.	1.7	12
38	Second-Harmonic Generation and Photoluminescence Properties of Sn(II)- and Bi(III)-Based Lone Pair Cationâ€“Pyridine Dicarboxylate Coordination Compounds. Inorganic Chemistry, 2020, 59, 11554-11561.	1.9	12
39	Site-Selective n-Type â€œHeavyâ€•Rare-Earth-Metal Doping in the Complex Zintl Phase Ca_{11â€“x}RE_xSb_{10â€“y} (RE = Tb, Dy, Ho, Er, Tm). Crystal Growth and Design, 2020, 20, 4503-4511.	1.4	11
40	Syntheses, Structures, and Characterization of Quaternary Tellurites, Li3MTe4O11 (M = Al, Ga, and Fe). Inorganic Chemistry, 2017, 56, 5873-5879.	1.9	10
41	Major Role of Surface Area in Perovskite Electrocatalysts for Alkaline Systems. ChemElectroChem, 2017, 4, 468-471.	1.7	10
42	p-Type to n-Type Conversion through the â€œBypassâ€•Phase Transition in the Zintl-Phase Thermoelectric Materials. Chemistry of Materials, 2021, 33, 6761-6773.	3.2	10
43	Solvothermal Synthesis of Ferroelectric BaTiO3 Nanoparticles and Their Application to Dye-sensitized Solar Cells. Journal of the Korean Physical Society, 2018, 73, 627-631.	0.3	9
44	Two Steps to Improve the Thermoelectric Performance of the Ca_{5â€“x}Yb_xAl_{2â€“y}In_ySb₆ System. Inorganic Chemistry, 2020, 59, 13572-13582.	1.9	9
45	I³O⁰-Type 3D Framework of Cobalt Cinnamate and Its Efficient Electrocatalytic Activity toward the Oxygen Evolution Reaction. Chemistry of Materials, 2021, 33, 2804-2813.	3.2	9
46	Noncovalent Intermolecular Interaction in Cofacially Stacked 24Ï€ Antiaromatic Hexaphyrin Dimer. Chemistry - A European Journal, 2020, 26, 16434-16440.	1.7	8
47	Unique synthesis, structure determination, and optical properties of seven new layered rare earth tellurite nitrates, RE(TeO3)(NO3) (REÂ= La, Nd, Eu, Gd, Dy, Er, and Y). Journal of Alloys and Compounds, 2021, 851, 156855.	2.8	8
48	Crystals of Sb3+-coordination complexes exhibiting yellowish green emissions with outstanding lifetimes. Journal of Solid State Chemistry, 2019, 274, 69-74.	1.4	7
49	Transition metal ion co-doped MgOâ€“MgF2-GeO2:Mn4+ red phosphors for white LEDs with wider color reproduction gamut. Journal of Alloys and Compounds, 2020, 818, 152914.	2.8	7
50	Nonlinear optical (NLO) properties and temperature-dependent photoluminescence in activator-doped noncentrosymmetric (NCS) bismuth tellurite solid solutions, Bi2â^'Ln TeO5 (LnÂ=ÂCe and Eu). Journal of Alloys and Compounds, 2016, 672, 470-475.	2.8	6
51	<scp>BF₂</scp>â€Complexes of Carbazoleâ€“Benzimidazole Conjugates: Synthesis, Structures, and Spectroscopic Properties. Bulletin of the Korean Chemical Society, 2017, 38, 1163-1168.	1.0	6
52	meso-Bis(ethynyl) Versus meso-Bis(aryl) Calix[4]pyrroles: Dimensionally Well-Modulated Receptors That Can Regulate the Anion Binding Domains. Journal of Organic Chemistry, 2019, 84, 6851-6857.	1.7	6
53	Synthesis, Structure, and Characterization of Variable Chains in a Series of Transition Metal Coordination Compounds. European Journal of Inorganic Chemistry, 2020, 2020, 452-460.	1.0	6
54	p-Type Double Doping and the Diamond-like Morphology Shift of the Zintl Phase Thermoelectric Materials: The Ca_{11â€“x}A_xSb_{10â€“y}Ge_z (A =) Tj ET Q q 0 0 0 rgBT /Ove Chemistry, 2021, 60, 10124-10136.	1.9	6

#	Article	IF	Citations
55	Unexpected halide anion binding modes in meso-bis-ethynyl picket-calix[4]pyrroles: effects of meso-Ï€ (ethynyl) extension. Chemical Communications, 2018, 54, 7936-7939.	2.2	6
56	A Polar Titaniumâ€“Organic Chain with a Very Large Second-Harmonic-Generation Response. Inorganic Chemistry, 2016, 55, 11635-11638.	1.9	5
57	Experimental and Theoretical Investigations for the Quaternary Mixedâ€Cation Zintl Phase Ca_{1.82(1)}Eu_{0.18}CdSb₂. Bulletin of the Korean Chemical Society, 2020, 41, 245-247.	1.0	5
58	Crystal Structure, ⁷Li NMR, and Structural Relationship of Two Rareâ€Earth Metal Richer Polar Intermetallics: La₁₅Ge₉Li_{1.50(16)} and La₇Ge₃. Bulletin of the Korean Chemical Society, 2016, 37, 1344-1353.	1.0	3
59	Li₁₃Mn(SeO₃)₈: Lithium-Rich Transition Metal Selenite Containing Jahnâ€“Teller Distortive Cations. Inorganic Chemistry, 2017, 56, 9369-9375.	1.9	3
60	Preparation of a Sr2-xEuxSi5N8 Phosphor Using an Ion Transporter. ECS Journal of Solid State Science and Technology, 2018, 7, R3001-R3005.	0.9	3
61	A series of oxyfluoride chains containing asymmetric basic building units of both early- and late-transition metal cations. Journal of Solid State Chemistry, 2018, 267, 140-145.	1.4	3
62	Mixed Transition Metal (Oxy)fluoride Paramagnet Chains: Synthesis, Structure, and Characterization. European Journal of Inorganic Chemistry, 2019, 2019, 3112-3119.	1.0	3
63	Variable Chains Found in Mixed Transition Metal Oxyfluorides with Heterocyclic Ligands. Crystal Growth and Design, 2019, 19, 3435-3444.	1.4	3
64	A new bismuth coordination polymer with proton conductivity and orange-red photoluminescence. Journal of Coordination Chemistry, 2021, 74, 1810-1822.	0.8	3
65	Synthesis, second-harmonic generations (SHG), and photoluminescence (PL) properties of Ca 4 Bi 6-x Ln x O 13 (Ln=La and Eu) solid solutions. Journal of Solid State Chemistry, 2017, 252, 28-32.	1.4	2
66	Variable dimensionality and framework found in a series of quaternary zinc selenites, A 2 Zn 3 (SeO 3) 4 Â· x H 2 O (A = Na, Rb, and Cs; 0â‰¤ x â‰¤1) and Cs 2 Zn 2 (SeO 3) 3 Â·2H 2 O. Journal of Solid State Chemistry, 2017, 245, 1-9.	1.4	2
67	Early stage of the single-crystal growth and tipping point of the cationic site preference in Gd-doped Zintl phase thermoelectric materials. CrystEngComm, 2021, 23, 7097-7107.	1.3	2
68	New quaternary alkali metal cadmium selenites, A 2 Cd(SeO 3) 2 (A = K, Rb, and Cs) and Li 2 Cd 3 (SeO 3) 4. Journal of Solid State Chemistry, 2017, 256, 213-218.	1.4	1
69	Synthesis, second-harmonic generation (SHG), and photoluminescence (PL) properties of noncentrosymmetric bismuth selenite solid solutions, Bi 2-x Ln x SeO 5 (LnÂ= La and Eu; x Â= 0â€“0.3). Solid State Sciences, 2018, 76, 105-110.	1.5	1
70	Influence of structure-directing polyhedra and heterocyclic ligands on the chain structures and O/F ordering in a series of zinc vanadium oxyfluorides. CrystEngComm, 2020, 22, 3206-3214.	1.3	1
71	Innentitelbild: Lead Mixed Oxyhalides Satisfying All Fundamental Requirements for Highâ€Performance Midâ€Infrared Nonlinear Optical Materials (Angew. Chem. 19/2020). Angewandte Chemie, 2020, 132, 7342-7342.	1.6	0