

Thao T Tran

List of Publications by Year in descending order

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236833

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docs citations

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2595
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#	ARTICLE	IF	CITATIONS
1	Deep Ultraviolet Nonlinear Optical Materials. <i>Chemistry of Materials</i> , 2016, 28, 5238-5258.	3.2	481
2	Designing indirect→direct bandgap transitions in double perovskites. <i>Materials Horizons</i> , 2017, 4, 688-693.	6.4	290
3	RbMgCO ₃ F: A New Beryllium-Free Deep-Ultraviolet Nonlinear Optical Material. <i>Journal of the American Chemical Society</i> , 2015, 137, 10504-10507.	6.6	283
4	Mixed-Metal Carbonate Fluorides as Deep-Ultraviolet Nonlinear Optical Materials. <i>Journal of the American Chemical Society</i> , 2017, 139, 1285-1295.	6.6	195
5	Beryllium-Free $\text{Rb}_2\text{Al}_2\text{BO}_7$ as a Possible Deep-Ultraviolet Nonlinear Optical Material Replacement for $\text{KBe}_2\text{BO}_3\text{F}_2$. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2969-2973.	7.2	150
6	Nonlinear Active Materials: An Illustration of Controllable Phase Matchability. <i>Journal of the American Chemical Society</i> , 2013, 135, 11942-11950.	6.6	89
7	Chemistry of Quantum Spin Liquids. <i>Chemical Reviews</i> , 2021, 121, 2898-2934.	23.0	89
8	Role of Acentric Displacements on the Crystal Structure and Second-Harmonic Generating Properties of RbPbCO_3F and CsPbCO_3F . <i>Inorganic Chemistry</i> , 2014, 53, 6241-6251.	1.9	85
9	Polar and Magnetic Mn_2FeMO_6 (M=Nb, Ta) with LiNbO_3 -type Structure: High-Pressure Synthesis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8406-8410.	7.2	81
10	Macroscopic polarity control with alkali metal cation size and coordination environment in a series of tin iodates. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 361-368.	3.0	74
11	Beryllium-Free $\text{Rb}_2\text{Al}_2\text{BO}_7$ as a Possible Deep-Ultraviolet Nonlinear Optical Material Replacement for $\text{KBe}_2\text{BO}_3\text{F}_2$. <i>Angewandte Chemie</i> , 2017, 129, 3015-3019.	1.6	72
12	New Fluoride Carbonates: Centrosymmetric $\text{KPb}_2(\text{CO}_3)_2\text{F}$ and Noncentrosymmetric $\text{K}_{2.70}\text{Pb}_{5.15}(\text{CO}_3)_5\text{F}_3$. <i>Inorganic Chemistry</i> , 2013, 52, 2466-2473.	1.9	59
13	Two New Non-centrosymmetric $n = 3$ Layered Dion→Jacobson Perovskites: Polar $\text{RbBi}_2\text{Ti}_2\text{NbO}_{10}$ and Nonpolar $\text{CsBi}_2\text{Ti}_2\text{TaO}_{10}$. <i>Chemistry of Materials</i> , 2016, 28, 2424-2432.	3.2	52
14	Syntheses of Two Vanadium Oxide→Fluoride Materials That Differ in Phase Matchability. <i>Inorganic Chemistry</i> , 2015, 54, 765-772.	1.9	40
15	Crystal Growth, Structure, Polarization, and Magnetic Properties of Cesium Vanadate, $\text{Cs}_2\text{V}_3\text{O}_8$: A Structure→Property Study. <i>Inorganic Chemistry</i> , 2013, 52, 6179-6186.	1.9	37
16	$\text{U}_3\text{F}_{12}(\text{H}_2\text{O})$, a Noncentrosymmetric Uranium(IV) Fluoride Prepared via a Convenient In Situ Route That Creates U^{4+} under Mild Hydrothermal Conditions. <i>Inorganic Chemistry</i> , 2013, 52, 8303-8305.	1.9	36
17	Proper Ferroelectricity in the Dion→Jacobson Material $\text{CsBi}_2\text{Ti}_2\text{NbO}_{10}$: Experiment and Theory. <i>Chemistry of Materials</i> , 2015, 27, 8298-8309.	3.2	36
18	Ordered aeschynite-type polar magnets O_6		

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19	Homochiral Helical Metal-Organic Frameworks of Group 1 Metals. <i>Inorganic Chemistry</i> , 2013, 52, 10041-10051.	1.9	33
20	Morphotropic Phase Boundary in the Pb-Free (1-x)TjETQq000rgBT/Overlock10Tf50712Td(<i>x</i>)BiTi _{3/8} Fe_{sub} System: Tetragonal Polarization and Enhanced Electromechanical Properties. <i>Advanced Materials</i> , 2015, 27, 2883-2889. DOI: 10.1002/adma.201501011	11.1	31
21	$\langle C \rangle$ and universal behavior in quantum spin liquid candidates synthetic barlowite and herbertsmithite. <i>Physical Review Materials</i> , 2018, 2, 010401. DOI: 10.1103/PhysRevMaterials.2.010401	0.9	31
22	Structure-Property Relationships in Solid Solutions of Noncentrosymmetric Aurivillius Phases, Bi ₄ La _x Ti ₃ O ₁₂ (x = 0-0.75). <i>Inorganic Chemistry</i> , 2012, 51, 10402-10407.	1.9	30
23	Polar and Magnetic Layered A-Site and Rock Salt B-Site-Ordered NaLnFeWO ₆ (Ln = La, Nd) Perovskites. <i>Inorganic Chemistry</i> , 2013, 52, 12482-12491.	1.9	28
24	Role of Hydrogen-Bonding in the Formation of Polar Achiral and Nonpolar Chiral Vanadium Selenite Frameworks. <i>Inorganic Chemistry</i> , 2012, 51, 11040-11048.	1.9	25
25	Crystal Growth of Four Oxovanadium(IV) Tartrates Prepared via a Mild Two-Step Hydrothermal Method: Observation of Spin-Dimer Behavior and Second Harmonic Generation. <i>Inorganic Chemistry</i> , 2015, 54, 4011-4020.	1.9	25
26	K ₈ (K ₅ F)U ₆ Si ₈ O ₄₀ : An Intergrowth Uranyl Silicate. <i>Inorganic Chemistry</i> , 2016, 55, 3215-3217.	1.9	25
27	(Cs _x)Cu ₅ O ₂ (PO ₄) ₂ (X = Cl, Br, I): A Family of Cu ²⁺ <i>S</i> = 1/2 Compounds with Capped-Kagomé Networks Composed of OCu ₄ Units. <i>Inorganic Chemistry</i> , 2019, 58, 4328-4336.	1.9	25
28	A ₅ RE ₄ X[TO ₄] ₄ crystal growth and photoluminescence. Fluoride flux synthesis of sodium and potassium rare earth silicate oxyfluorides. <i>CrystEngComm</i> , 2015, 17, 4654-4661.	1.3	23
29	Nb ₂ O ₂ F ₃ : A Reduced Niobium (III/IV) Oxyfluoride with a Complex Structural, Magnetic, and Electronic Phase Transition. <i>Journal of the American Chemical Society</i> , 2015, 137, 636-639.	6.6	23
30	Synthesis and structure of the new pentanary uranium(<i>vi</i>) silicate, K ₄ Ca ₄ Si ₄ O ₁₄ , a member of a structural family related to fresnoite. <i>CrystEngComm</i> , 2015, 17, 4218-4224.	1.3	23
31	La ₂ SrCr ₂ O ₇ : Controlling the Tilting Distortions of <i>n</i> = 2 Ruddlesden-Popper Phases through A-Site Cation Order. <i>Inorganic Chemistry</i> , 2016, 55, 8951-8960.	1.9	21
32	Dielectric and Ferroelectric Properties in Highly Substituted Bi ₂ Sr(A)TiNb ₂ O ₁₂ (A = Ca ²⁺ , Sr ²⁺), TjETQq000rgBT/Overlock10Tf50712Td(<i>x</i>)BiTi _{3/8} Fe_{sub}	0.9	21
33	Chemically controlled crystal growth of (CH ₃ NH ₃) ₂ AgInBr ₆ . <i>CrystEngComm</i> , 2018, 20, 5929-5934.	1.3	20
34	Synthesis and characterization of ASnF ₃ (A=Na ⁺ , K ⁺ , Rb ⁺ , Cs ⁺). <i>Journal of Solid State Chemistry</i> , 2014, 210, 213-218.	1.4	19
35	Laser-Enhanced Single Crystal Growth of Non-Symmorphic Materials: Applications to an Eight-Fold Fermion Candidate. <i>Chemistry of Materials</i> , 2020, 32, 5827-5834.	3.2	17
36	Ba ₂ YFeO _{5.5} : A Ferromagnetic Pyroelectric Phase Prepared by Topochemical Oxidation. <i>Chemistry of Materials</i> , 2013, 25, 1800-1808.	3.2	16

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37	Perovskite B-site Compositional Control of [110] _p Polar Displacement Coupling in an Ambient-Pressure Stable Bismuth-based Ferroelectric. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10770-10775.	7.2	15
38	Synthesis and Selective Topochemical Fluorination of the Cation and Anion-Vacancy Ordered phases Ba ₂ YCoO ₅ and Ba ₃ YCoO ₂ O _{7.5} . <i>Inorganic Chemistry</i> , 2013, 52, 13762-13769.	1.9	15
39	Labile Degree of Disorder in Bismuth-Oxophosphate Compounds: Illustration through Three New Structural Types. <i>Inorganic Chemistry</i> , 2014, 53, 861-871.	1.9	15
40	Inducing polarity in [VO ₃] ⁿ⁻ chain compounds using asymmetric hydrogen-bonding networks. <i>Journal of Solid State Chemistry</i> , 2012, 195, 86-93.	1.4	14
41	Polar Alignment of $\hat{\Gamma}$ -Shaped Basic Building Units within Transition Metal Oxide Fluoride Materials. <i>Inorganic Chemistry</i> , 2014, 53, 221-228.	1.9	14
42	Nonpolar-to-Polar Trimerization Transitions in the $S = 1$ Kagomé Magnet Na ₂ Ti ₃ Cl ₈ . <i>Inorganic Chemistry</i> , 2019, 58, 11941-11948. Spinon excitations in the quasi-one-dimensional $\text{CaMn}_2\text{P}_2\text{O}_{14}$ chain compound	1.9	14
43	$\text{CaMn}_2\text{P}_2\text{O}_{14}$ chain compound	1.1	14
44	Twisting of 2D Kagomé Sheets in Layered Intermetallics. <i>ACS Central Science</i> , 2021, 7, 1381-1390.	5.3	14
45	Crystal Growth and Structure Analysis of Ce ₁₈ W ₁₀ O ₅₇ : A Complex Oxide Containing Tungsten in an Unusual Trigonal Prismatic Coordination Environment. <i>Inorganic Chemistry</i> , 2017, 56, 2566-2575.	1.9	11
46	An Electronically Driven Improper Ferroelectric: Tungsten Bronzes as Microstructural Analogs for the Hexagonal Manganites. <i>Advanced Materials</i> , 2019, 31, 1903620.	11.1	10
47	Symmetry preservation in a new noncentrosymmetric lattice comprised of acentric POM clusters residing in bowls of Cs ⁺ -based half SOD $\hat{\Gamma}^2$ -cage. <i>Chemical Communications</i> , 2012, 48, 1665-1667.	2.2	9
48	Perovskite B-site Compositional Control of [110] _p Polar Displacement Coupling in an Ambient-Pressure Stable Bismuth-based Ferroelectric. <i>Angewandte Chemie</i> , 2012, 124, 10928-10933.	1.6	8
49	Potential Skyrmion Host Fe(IO ₃) ₃ : Connecting Stereoactive Lone-Pair Electron Effects to the Dzyaloshinskii-Moriya Interaction. <i>Chemistry of Materials</i> , 2021, 33, 4661-4671.	3.2	8
50	Large scale synthesis, second-harmonic generation, and piezoelectric properties of a noncentrosymmetric vanadium phosphate, Li ₂ VPO ₆ . <i>Journal of Solid State Chemistry</i> , 2013, 202, 22-26.	1.4	7
51	A Cubic Non-Centrosymmetric Mixed-Valence Iron Borophosphate "Phosphite". <i>Crystal Growth and Design</i> , 2016, 16, 1187-1194.	1.4	7
52	Spin and Orbital Effects on Asymmetric Exchange Interaction in Polar Magnets: M(IO ₃) ₂ (M = Cu and Mn). <i>Inorganic Chemistry</i> , 2021, 60, 16544-16557.	1.9	7
53	Luminescence and scintillation properties of La ₂ [Si ₂ O ₇]:Ce ³⁺ functional pigment "A concept for UV-protection of coatings". <i>Dyes and Pigments</i> , 2015, 123, 331-340.	2.0	6
54	Original oxo-centered bismuth oxo-arsenates; critical effect of PO ₄ for AsO ₄ substitution. <i>CrystEngComm</i> , 2017, 19, 936-945.	1.3	6

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55	Study of Integer Spin $S = 1$ in the Polar Magnet $\hat{I}^2\text{-Ni}(\text{IO}_3)_2$. <i>Molecules</i> , 2021, 26, 7210.	1.7	5
56	Low temperature synthesis route and structural characterization of $(\text{Bi}_{0.5}\text{A}_{0.5})(\text{Sc}_{0.5}\text{Nb}_{0.5})\text{O}_3$ ($\text{A} = \text{Tj, Bi, Q, O, O, O, O, O, O, O, O, O, O, O}$). <i>Over</i>	1.4	2
57	^{119}Sn Mössbauer spectroscopy of solvothermally synthesized fluorides A_3SnF_3 ($\text{A} = \text{Na, K, Rb, Cs}$). <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2015, 70, 765-767.	0.3	2
58	High pressure synthesis and magnetic properties of corundum-type $\text{Ga}_{1-x}\text{Al}_x\text{FeO}_3$ ($x = 0, 0.25, 0.5$). <i>Journal of Solid State Chemistry</i> , 2018, 265, 79-84.	1.4	2
59	Crystallographic and magnetic properties of $\text{Pb}_2\text{Bi}_x\text{Ir}_2\text{O}_7$ ($0 \leq x \leq 2$). <i>Materials Research Express</i> , 2014, 1, 046304.	0.8	1
60	Improper Ferroelectricity: An Electronically Driven Improper Ferroelectric: Tungsten Bronzes as Microstructural Analogs for the Hexagonal Manganites (<i>Adv. Mater.</i> 40/2019). <i>Advanced Materials</i> , 2019, 31, 1970287.	11.1	0