

# Yuki Sakai

## List of Publications by Year in descending order

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51  
papers

866  
citations

567281

15  
h-index

501196

28  
g-index

52  
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52  
docs citations

52  
times ranked

982  
citing authors

#	ARTICLE	IF	CITATIONS
1	Colossal negative thermal expansion in reduced layered ruthenate. <i>Nature Communications</i> , 2017, 8, 14102.	12.8	154
2	Colossal Negative Thermal Expansion in Electron-Doped $\text{PbVO}_3$ Perovskites. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8170-8173.	13.8	64
3	A-Site and B-Site Charge Orderings in an $d$ Level Controlled Perovskite Oxide $\text{PbCoO}_3$ . <i>Journal of the American Chemical Society</i> , 2017, 139, 4574-4581.	13.7	52
4	Effect of Sn-Substitution on Thermoelectric Properties of Copper-Based Sulfide, Famatinitite $\text{Cu}_3\text{SbS}_4$ . <i>Journal of the Physical Society of Japan</i> , 2015, 84, 044706.	1.6	47
5	Sequential Spin State Transition and Intermetallic Charge Transfer in $\text{PbCoO}_3$ . <i>Journal of the American Chemical Society</i> , 2020, 142, 5731-5741.	13.7	35
6	Long-term heat-storage ceramics absorbing thermal energy from hot water. <i>Science Advances</i> , 2020, 6, eaaz5264.	10.3	34
7	Glassy Distribution of $\text{Bi}^{3+}/\text{Bi}^{5+}$ in $\text{Bi}_2\text{PbNiO}_3$ and Negative Thermal Expansion Induced by Intermetallic Charge Transfer. <i>Chemistry of Materials</i> , 2016, 28, 6062-6067.	6.7	31
8	Enhanced Negative Thermal Expansion Induced by Simultaneous Charge Transfer and Polar-Nonpolar Transitions. <i>Journal of the American Chemical Society</i> , 2019, 141, 19397-19403.	13.7	30
9	Large Negative Thermal Expansion Induced by Synergistic Effects of Ferroelectrostriction and Spin Crossover in $\text{PbTiO}_3$ -Based Perovskites. <i>Chemistry of Materials</i> , 2019, 31, 1296-1303.	6.7	29
10	Giant negative thermal expansion in Fe-doped layered ruthenate ceramics. <i>Applied Physics Express</i> , 2017, 10, 115501.	2.4	27
11	High-Brightness Red-Emitting Phosphor $\text{La}_3(\text{Si,Al})_6(\text{O,N})_{11}:\text{Ce}^{3+}$ for Next-Generation Solid-State Light Sources. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31652-31658.	8.0	23
12	Polar-Nonpolar Phase Transition Accompanied by Negative Thermal Expansion in Perovskite-Type $\text{Bi}_2\text{PbNiO}_3$ . <i>Chemistry of Materials</i> , 2019, 31, 4748-4758.	6.7	21
13	Optimized negative thermal expansion induced by gradual intermetallic charge transfer in $\text{Bi}^{1-x}\text{Sb}_x\text{NiO}_3$ . <i>Applied Physics Express</i> , 2018, 11, 061102.	2.4	19
14	Observation of novel charge ordering and spin reorientation in perovskite oxide $\text{PbFeO}_3$ . <i>Nature Communications</i> , 2021, 12, 1917.	12.8	17
15	The effect of simultaneous substitution on the electronic band structure and thermoelectric properties of Se-doped $\text{Co}_3\text{SnInS}_2$ with the Kagome lattice. <i>Solid State Communications</i> , 2014, 199, 56-60.	1.9	16
16	The Electronic Structure of Structurally Strained $\text{Mn}_3\text{O}_4$ Postspinel and the Relationship with $\text{Mn}_3\text{O}_4$ Spinel. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 114702.	1.6	15
17	Melting of $d_{xy}$ Orbital Ordering Accompanied by Suppression of Giant Tetragonal Distortion and Insulator-to-Metal Transition in Cr-Substituted $\text{PbVO}_3$ . <i>Chemistry of Materials</i> , 2019, 31, 1352-1358.	6.7	15
18	Magnetic properties of shandite-type $\text{Co}_3\text{Sn}_2\text{S}_2\text{Se}_x$ . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1130-1131.	0.8	14

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19	Magnetic Properties of Shandite-Phase $\text{Co}_{1-x}\text{Fe}_x\text{Sn}_2\text{S}_2$ ( $x = 0.784314$ )	1.0	14
20	Pronounced Negative Thermal Expansion in Lead-Free $\text{BiCoO}_3$ -Based Ferroelectrics Triggered by the Stabilized Perovskite Structure. <i>Chemistry of Materials</i> , 2019, 31, 6187-6192.	6.7	14
21	Negative Thermal Expansion in Lead-Free La-Substituted $\text{Bi}_{0.5}\text{Na}_{0.5}\text{VO}_3$ . <i>Chemistry of Materials</i> , 2020, 32, 4832-4837.	6.7	14
22	Origin and Absence of Giant Negative Thermal Expansion in Reduced and Oxidized $\text{Ca}_2\text{RuO}_4$ . <i>Chemistry of Materials</i> , 0, , .	6.7	14
23	Electric-Field-Induced Reorientation of the Magnetic Easy Plane in a Co-Substituted $\text{BiFeO}_3$ Single Crystal. <i>Inorganic Chemistry</i> , 2017, 56, 15171-15177.	4.0	13
24	Extended operating temperature window of giant negative thermal expansion in Sn-doped $\text{Ca}_2\text{RuO}_4$ . <i>Applied Physics Letters</i> , 2018, 113, .	3.3	13
25	High-Temperature Monoclinic $\text{Cc}$ Phase with Reduced $c/a$ Ratio in Bi-based Perovskite Compound $\text{Bi}_{2-x}\text{ZnTi}_{1-x}\text{Mn}_x\text{O}_6$ . <i>Inorganic Chemistry</i> , 2016, 55, 6124-6129.	4.0	12
26	Systematic charge distribution changes in Bi- and Pb-3d transition metal perovskites. <i>Dalton Transactions</i> , 2018, 47, 1371-1377.	3.3	12
27	Polarization Rotation at Morphotropic Phase Boundary in New Lead-Free $\text{Na}_{1/2}\text{Bi}_{1/2}\text{V}_{1-x}\text{Ti}_x\text{O}_3$ Piezoceramics. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5208-5215.	8.0	11
28	Electronic structure and transport properties of Cu-deficient kuramite $\text{Cu}_{3-x}\text{SnS}_4$ . <i>Japanese Journal of Applied Physics</i> , 2015, 54, 021801.	1.5	10
29	Room temperature ferromagnetism in $\text{BiFe}_{1-x}\text{Mn}_x\text{O}_3$ thin film induced by spin-structure manipulation. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	10
30	Robust Giant Tetragonal Distortion Coupled with High-Spin $\text{Co}^{3+}$ in Electron-Doped $\text{BiCoO}_3$ . <i>Inorganic Chemistry</i> , 2019, 58, 16059-16064.	4.0	9
31	$\text{Na}_{1/2}\text{Bi}_{1/2}\text{VO}_3$ and $\text{K}_{1/2}\text{Bi}_{1/2}\text{VO}_3$ : New Lead-Free Tetragonal Perovskites with Moderate $c/a$ Ratios. <i>Chemistry of Materials</i> , 2018, 30, 6728-6736.	6.7	8
32	Stability of Polar Structure in Filling-Controlled Giant Tetragonal Perovskite Oxide $\text{PbVO}_3$ . <i>Inorganic Chemistry</i> , 2019, 58, 2755-2760.	4.0	8
33	High-Pressure Synthesis and Lithium-Ion Conduction of $\text{Li}_4\text{OBr}_2$ Derivatives with a Layered Inverse-Perovskite Structure. <i>Chemistry of Materials</i> , 2021, 33, 9194-9201.	6.7	8
34	New phases of binary compounds: CsCl-type $\text{RuGe}$ and $\text{RuSn}$ . <i>Europhysics Letters</i> , 2014, 107, 56003.	2.0	6
35	Emergence of a Cubic Phase Stabilized by Intermetallic Charge Transfer in $\text{Bi}_{1-x}\text{Fe}_x\text{VO}_3$	6.7	6
36	Annealing effect on local structure and negative thermal expansion of antiperovskite manganese nitride fine particles. <i>Applied Physics Express</i> , 2020, 13, 075501.	2.4	6

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37	Strain Manipulation of Magnetic Anisotropy in Room-Temperature Ferrimagnetic Quadruple Perovskite $\text{CeCu}_3\text{Mn}_4\text{O}_{12}$ . ACS Applied Electronic Materials, 2019, 1, 2514-2521.	4.3	5
38	Enhanced Spontaneous Polarization by V <sup>4+</sup> Substitution in a Lead-Free Perovskite $\text{CaMnTi}_2\text{O}_6$ . Inorganic Chemistry, 2020, 59, 11749-11756.	4.0	5
39	Observation of Stabilized Monoclinic Phase as a "Bridge" at the Morphotropic Phase Boundary between Tetragonal Perovskite $\text{PbVO}_3$ and Rhombohedral $\text{BiFeO}_3$ . Chemistry of Materials, 2020, 32, 3615-3620.	6.7	5
40	Polarization- and Strain-Mediated Control of Negative Thermal Expansion and Ferroelasticity in $\text{BiInO}_3$ "BiZn <sub>1/2</sub> Ti <sub>1/2</sub> O <sub>3</sub> ". Chemistry of Materials, 2021, 33, 1498-1505.	6.7	4
41	Colossal Negative Thermal Expansion in Electron-Doped $\text{PbVO}_3$ Perovskites. Angewandte Chemie, 2018, 130, 8302-8305.	2.0	3
42	Realization of Negative Thermal Expansion in Lead-Free $\text{Bi}_0.5\text{K}_0.5\text{VO}_3$ by the Suppression of Tetragonality. Inorganic Chemistry, 2022, , .	4.0	3
43	Magnetic Ordering and Structural Transition in the Ordered Double-Perovskite $\text{Pb}_2\text{NiMo}_6$ . Chemistry of Materials, 2022, 34, 97-106.	6.7	3
44	Unusual inhomogeneous microstructures in charge glass state of $\text{PbCrO}_3$ . Japanese Journal of Applied Physics, 2018, 57, 050301.	1.5	2
45	Stabilized Charge, Spin, and Orbital Ordering by the 6s <sup>2</sup> Lone Pair in $\text{Bi}_0.5\text{Pb}_0.5\text{MnO}_3$ . Inorganic Chemistry, 2020, 59, 13390-13397.	4.0	2
46	Intermetallic Charge Transfer in V-Substituted $\text{PbCrO}_3$ . Inorganic Chemistry, 2021, 60, 9427-9431.	4.0	1
47	Sequential Pressure-Induced $B \rightarrow B_2$ Transitions in the Anion-Ordered Oxyhydride $\text{Ba}_2\text{YHO}_3$ . Inorganic Chemistry, 2022, 61, 7043-7050.	4.0	1
48	$\text{SrV}_{0.3}\text{Fe}_{0.7}\text{O}_{2.8}$ : A Vacancy-Ordered Fe-Based Perovskite Exhibiting Room-Temperature Magnetoresistance. Inorganic Chemistry, 2022, 61, 8987-8991.	4.0	1
49	A-site and B-site Charge Ordering of Perovskite Oxide $\text{PbCoO}_3$ Realized by s-d Level Controlling. Nihon Kessho Gakkaishi, 2018, 60, 227-228.	0.0	0
50	Crystal Structures and Electronic States of High-Pressure-Synthesized $(1-x)\text{PbVO}_3-x\text{BiCrO}_3$ Solid Solutions. Journal of Asian Ceramic Societies, 2021, 9, 1147-1153.	2.3	0
51	Negative Thermal Expansion Induced by Simultaneous Charge Transfer and Polar-Nonpolar Transitions. Nihon Kessho Gakkaishi, 2020, 62, 135-136.	0.0	0