

# Tsukasa Katayama

## List of Publications by Year in descending order

Source: [//exaly.com/author-pdf/8143602/publications.pdf](https://exaly.com/author-pdf/8143602/publications.pdf)

Version: 2024-02-01

64  
papers

506  
citations

700390

12  
h-index

722670

20  
g-index

64  
all docs

64  
docs citations

64  
times ranked

872  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Phase Transition-Induced Modulation of Ferroelectric Properties in Hexagonal $\text{RFeO}_3$ ( $\text{R} = \text{Tb}$ and $\text{Ho}$ ). ACS Applied Materials & Interfaces, 2024, 16, 17832-17837.	8.3	0
2	High-concentration doping effects of aliovalent Al and Ga on ferroelectric properties of $\text{BaTiO}_3$ Films. Thin Solid Films, 2024, 796, 140339.	1.9	0
3	Large tensile-strained $\text{BaTiO}_3$ films grown on a lattice-mismatched La-doped $\text{BaSnO}_3$ bottom electrode. CrystEngComm, 2024, 26, 2765-2769.	2.4	0
4	Cation-placement control in double-perovskite $\text{GdBaCo}_2\text{O}_6$ and its impact on magnetism via spin-state modification. Journal of Materials Chemistry C, 2024, 12, 10428-10436.	5.6	0
5	Ferroelectric $\text{BaTiO}_3$ Freestanding Sheets for an Ultra-High-Speed Light-Driven Actuator. ACS Applied Materials & Interfaces, 2024, 16, 54146-54153.	8.3	0
6	Half-Metallicity and Magnetic Anisotropy in Double-Perovskite $\text{GdBaCo}_2\text{O}_6$ Films Prepared via Topotactic Oxidation. Chemistry of Materials, 2023, 35, 1295-1300.	7.1	5
7	Synthesis and transparent conductivity of crack-free $\text{La:BaSnO}_3$ epitaxial flexible sheets. Dalton Transactions, 2023, 52, 6317-6323.	3.4	3
8	Grain engineered polar-axis-oriented epitaxial $\text{Mn}_2\text{Mo}_3\text{O}_8$ films with enhanced magnetic transition temperature. Journal of Materials Chemistry C, 2023, 11, 7427-7432.	5.6	0
9	Anisotropic proton conduction in double-perovskite $\text{GdBaCo}_2\text{O}_{5.5}$ . Applied Physics Letters, 2023, 123, .	3.2	1
10	Ferroelectricity, High Permittivity, and Tunability in Millimeter-Size Crack-Free $\text{BaSrTiO}_3$ Flexible Epitaxial Sheets. ACS Applied Electronic Materials, 2023, 5, 5234-5239.	4.4	3
11	Atomic Layer Deposition of $\text{HfO}_2$ Films Using Tetrakis(1-( $\text{N}$ -dimethylamino)-2-propoxy)hafnium [ $\text{Hf}(\text{dmap})_4$ ] for Advanced Gate Dielectrics Applications. ACS Applied Nano Materials, 2023, 6, 18029-18035.	5.2	0
12	Improvement of electric insulation in dielectric layered perovskite nickelate films via fluorination. Journal of Materials Chemistry C, 2022, 10, 1711-1717.	5.6	2
13	Antiferroelectric-to-ferroelectric phase transition in hexagonal rare-earth iron oxides. Journal of Materials Chemistry C, 2022, 10, 5621-5626.	5.6	7
14	Crystal structure and electronic property modification of $\text{CaMn}_2\text{O}_7$ thin films via fluorine doping. Physical Review Materials, 2022, 6, .	2.5	2
15	Enhancement of room-temperature magnetization in $\text{GaFeO}_3$ -type single crystals by Al and Sc doping. AIP Advances, 2022, 12, .	1.3	1
16	Epitaxial growth of hexagonal $\text{GdFeO}_3$ thin films with magnetic order by pulsed laser deposition. Thin Solid Films, 2022, 757, 139409.	1.9	4
17	Ferroelectric and Magnetic Properties of Hexagonal $\text{ErFeO}_3$ Epitaxial Films. ACS Applied Electronic Materials, 2022, 4, 4547-4552.	4.4	3
18	Negative magnetoresistance in different nitrogen content $\text{EuNbO}_3\text{N}$ single-crystalline thin films. Journal of Materials Chemistry C, 2022, 10, 14661-14667.	5.6	1

#	ARTICLE	IF	CITATIONS
19	Significant Suppression of Cracks in Freestanding Perovskite Oxide Flexible Sheets Using a Capping Oxide Layer. <i>ACS Nano</i> , 2022, 16, 21013-21019.	15.3	12
20	Large Polarization Switching and High-Temperature Magnetoelectric Coupling in Multiferroic GaFeO <sub>3</sub> Systems. <i>Inorganic Chemistry</i> , 2021, 60, 225-230.	4.2	8
21	Room-Temperature Antiferroelectricity in Multiferroic Hexagonal Rare-Earth Ferrites. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4230-4235.	8.3	13
22	Investigation of the electronic states of A-site layer-ordered double perovskite YBaCo <sub>2</sub> O <sub>x</sub> (x = 5.3 and 6) thin films by x-ray spectroscopy. <i>Applied Physics Letters</i> , 2021, 118, .	3.2	6
23	Synthesis and magnetism of MoCo <sub>2</sub> O <sub>4</sub> spinel thin films. <i>Thin Solid Films</i> , 2021, 728, 138696.	1.9	3
24	Ionic Order Engineering in Double-Perovskite Cobaltite. <i>Chemistry of Materials</i> , 2021, 33, 5675-5680.	7.1	10
25	Single-Crystal Synthesis of $\mu$ -Fe <sub>2</sub> O <sub>3</sub> -Type Oxides Exhibiting Room-Temperature Ferrimagnetism and Ferroelectric Polarization. <i>Crystal Growth and Design</i> , 2021, 21, 4904-4908.	3.2	5
26	Epitaxial-Strain-Induced Spontaneous Magnetization in Polar Mn <sub>2</sub> Mo <sub>3</sub> O <sub>8</sub> . <i>Chemistry of Materials</i> , 2021, 33, 7713-7718.	7.1	3
27	Ferroelectric and magnetic properties in $\mu$ -Fe <sub>2</sub> O <sub>3</sub> epitaxial film. <i>Applied Physics Letters</i> , 2021, 119, .	3.2	4
28	Influence of fluorination on electronic states and electron transport properties of Sr <sub>2</sub> IrO <sub>4</sub> thin films. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8268-8274.	5.6	4
29	Modulating the Structure and Magnetic Properties of $\mu$ -Fe <sub>2</sub> O <sub>3</sub> Nanoparticles via Electrochemical Li <sup>+</sup> Insertion. <i>Inorganic Chemistry</i> , 2020, 59, 4357-4365.	4.2	4
30	Redox-Based Multilevel Resistive Switching in AlFeO <sub>3</sub> Thin-Film Heterostructures. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1065-1073.	4.4	6
31	Simple Method to Obtain Large-Size Single-Crystalline Oxide Sheets. <i>Advanced Functional Materials</i> , 2020, 30, 2001236.	16.5	36
32	Investigation of ferrimagnetism and ferroelectricity in Al <sub>x</sub> Fe <sub>2-x</sub> O <sub>3</sub> thin films. <i>Journal of Materials Chemistry C</i> , 2020, 8, 706-714.	5.6	9
33	Switchable third ScFeO <sub>3</sub> polar ferromagnet with YMnO <sub>3</sub> -type structure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4447-4452.	5.6	14
34	Electronic properties of perovskite strontium chromium oxyfluoride epitaxial thin films fabricated via low-temperature topotactic reaction. <i>Physical Review Materials</i> , 2020, 4, .	2.5	5
35	Theoretical Investigation of the Role of the Nitride Ion in the Magnetism of Oxynitride MnTaO <sub>2</sub> N. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25379-25384.	3.3	3
36	Ferroelectric and ferrimagnetic properties of $\mu$ -Rh <sub>2</sub> Fe <sub>2</sub> O <sub>3</sub> thin films. <i>Journal of the Ceramic Society of Japan</i> , 2019, 127, 474-477.		

#	ARTICLE	IF	CITATIONS
37	Magnetic properties of Single Crystal GaFeO <sub>3</sub> . MRS Advances, 2019, 4, 61-66.	1.0	5
38	Improved crystalline quality and electric conductivity in infinite-layer SrFeO <sub>2</sub> films through Sm substitution. Applied Physics Letters, 2019, 114, .	3.2	3
39	Fabrication and Characterization of Multiferroic Al <sub>0.5</sub> Fe <sub>1.5</sub> O <sub>3</sub> Epitaxial Thin Films. MRS Advances, 2019, 4, 539-544.	1.0	0
40	Reactive solid phase epitaxy of layered aurivillius-type oxyfluorides Bi <sub>2</sub> TiO <sub>4</sub> F <sub>2</sub> using polyvinylidene fluoride. Dalton Transactions, 2019, 48, 5425-5428.	3.4	3
41	Selective fluorination of perovskite iron oxide/ruthenium oxide heterostructures <i>via</i> a topotactic reaction. Chemical Communications, 2019, 55, 2437-2440.	4.2	3
42	Two-Dimensional Fluorine Distribution in a Heavily Distorted Perovskite Nickel Oxyfluoride Revealed by First-Principles Calculation. Journal of Physical Chemistry C, 2019, 123, 31190-31195.	3.3	4
43	p-Type Conductivity and Room-Temperature Ferrimagnetism in Spinel MoFe <sub>2</sub> O <sub>4</sub> Epitaxial Thin Film. Crystal Growth and Design, 2019, 19, 902-906.	3.2	11
44	Epitaxial Growth of Orthorhombic GaFeO <sub>3</sub> Thin Films on SrTiO <sub>3</sub> (111) Substrates by Simple Sol-Gel Method. Materials, 2019, 12, 254.	3.0	8
45	Ferromagnetism with strong magnetocrystalline anisotropy in A-site ordered perovskite YBaCo <sub>2</sub> O <sub>6</sub> epitaxial thin films prepared <i>via</i> wet-chemical topotactic oxidation. Journal of Materials Chemistry C, 2018, 6, 3445-3450.	5.6	17
46	Ferrimagnetism and Ferroelectricity in Cr-Substituted GaFeO <sub>3</sub> Epitaxial Films. Chemistry of Materials, 2018, 30, 1436-1441.	7.1	29
47	Ferroelectric and Magnetic Properties in Room-Temperature Multiferroic Ga <sub>x</sub> Fe <sub>2-x</sub> O <sub>3</sub> Epitaxial Thin Films. Advanced Functional Materials, 2018, 28, 1704789.	16.5	47
48	Fabrication of Fluorite-Type Fluoride Ba <sub>0.5</sub> Bi <sub>0.5</sub> F <sub>2.5</sub> Thin Films by Fluorination of Perovskite BaBiO <sub>3</sub> Precursors with Poly(vinylidene fluoride). ACS Omega, 2018, 3, 13141-13145.	3.6	7
49	Effect of Cr substitution on ferrimagnetic and ferroelectric properties of GaFeO <sub>3</sub> epitaxial thin films. Applied Physics Letters, 2018, 113, .	3.2	6
50	Reversible Changes in Resistance of Perovskite Nickelate NdNiO <sub>3</sub> Thin Films Induced by Fluorine Substitution. ACS Applied Materials & Interfaces, 2017, 9, 10882-10887.	8.3	40
51	Control of crystal-domain orientation in multiferroic Ga <sub>0.6</sub> Fe <sub>1.4</sub> O <sub>3</sub> epitaxial thin films. Applied Physics Letters, 2017, 110, .	3.2	21
52	Electric Transport Characteristics of Gallium Iron Oxide Epitaxial Thin Film. MRS Advances, 2017, 2, 3459-3464.	1.0	1
53	First-Principles Calculations on the Crystal/Electronic Structure and Phase Stability of H-Doped SrFeO <sub>2</sub> . Journal of Physical Chemistry C, 2017, 121, 7478-7484.	3.3	1
54	Epitaxial thin film growth of garnet-, GdFeO <sub>3</sub> -, and YMnO <sub>3</sub> -type LuFeO <sub>3</sub> using pulsed laser deposition. Thin Solid Films, 2017, 642, 41-44.	1.9	6

#	ARTICLE	IF	CITATIONS
55	Chemical tuning of room-temperature ferrimagnetism and ferroelectricity in $\mu\text{-Fe}_2\text{O}_3$ -type multiferroic oxide thin films. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12597-12601.	5.6	25
56	Epitaxial growth and electronic structure of oxyhydride $\text{SrVO}_2\text{H}$ thin films. <i>Journal of Applied Physics</i> , 2016, 120, .	2.3	25
57	Experimental and theoretical investigation of electronic structure of $\text{SrFeO}_3$ epitaxial thin films prepared via topotactic reaction. <i>Applied Physics Express</i> , 2016, 9, 025801.	2.4	10
58	Topotactic reductive synthesis of A-site cation-ordered perovskite $\text{YBaCo}_2\text{O}_x$ ( $x = 4.5 \sim 5.5$ ) epitaxial thin films. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 04EJ05.	1.6	3
59	Effects of Cr substitution on the magnetic and transport properties and electronic states of $\text{SrRu}_3\text{O}_3$ epitaxial thin films. <i>Physical Review B</i> , 2015, 92, .		13
60	Topotactic synthesis of strontium cobalt oxyhydride thin film with perovskite structure. <i>AIP Advances</i> , 2015, 5, .	1.3	15
61	Topotactic reductive fluorination of strontium cobalt oxide epitaxial thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 527-530.	2.3	20
62	Electronic and transport properties of Eu-substituted infinite-layer strontium ferrite thin films. <i>Journal of Crystal Growth</i> , 2013, 378, 165-167.	1.6	1
63	Hexagonal $\text{RFeO}_3$ ( $\text{R} = \text{Dy, Er, and Lu}$ ) Films Grown on Glass Substrates with Both Magnetic and Ferroelectric Orders. <i>ACS Applied Electronic Materials</i> , 0, , .	4.4	0
64	Unusual Crystal Orientation in Hexagonal $\text{HoFeO}_3$ Multiferroic Films and the Effect on Magnetism. <i>Crystal Growth and Design</i> , 0, , .	3.2	0