

Tsukasa Katayama

List of Publications by Year in descending order

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64
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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	Ferroelectric and Magnetic Properties in Room-Temperature Multiferroic $\text{Ga}_{1-x}\text{Fe}_{2x}\text{O}_3$ Epitaxial Thin Films. <i>Advanced Functional Materials</i> , 2018, 28, 1704789.	16.5	47
2	Reversible Changes in Resistance of Perovskite Nickelate NdNiO_3 Thin Films Induced by Fluorine Substitution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10882-10887.	8.3	40
3	Simple Method to Obtain Large-Size Single-Crystalline Oxide Sheets. <i>Advanced Functional Materials</i> , 2020, 30, 2001236.	16.5	36
4	Ferrimagnetism and Ferroelectricity in Cr-Substituted GaFeO_3 Epitaxial Films. <i>Chemistry of Materials</i> , 2018, 30, 1436-1441.	7.1	29
5	Epitaxial growth and electronic structure of oxyhydride SrVO_2H thin films. <i>Journal of Applied Physics</i> , 2016, 120, .	2.3	25
6	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
7	Control of crystal-domain orientation in multiferroic $\text{Ga}_{0.6}\text{Fe}_{1.4}\text{O}_3$ epitaxial thin films. <i>Applied Physics Letters</i> , 2017, 110, .	3.2	21
8	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
9	Ferromagnetism with strong magnetocrystalline anisotropy in A-site ordered perovskite YBaCo_2O_6 epitaxial thin films prepared via wet-chemical topotactic oxidation. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3445-3450.	5.6	17
10	Topotactic synthesis of strontium cobalt oxyhydride thin film with perovskite structure. <i>AIP Advances</i> , 2015, 5, .	1.3	15
11	Switchable third ScFeO_3 polar ferromagnet with YMnO_3 -type structure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4447-4452.	5.6	14
12	Effects of Cr substitution on the magnetic and transport properties and electronic states of SrRu_3O_7 epitaxial thin films. <i>Physical Review B</i> , 2015, 92, .	8.3	13
13	Room-Temperature Antiferroelectricity in Multiferroic Hexagonal Rare-Earth Ferrites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4230-4235.	8.3	13
14	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
15	p-Type Conductivity and Room-Temperature Ferrimagnetism in Spinel MoFe_2O_4 Epitaxial Thin Film. <i>Crystal Growth and Design</i> , 2019, 19, 902-906.	3.2	11
16	Experimental and theoretical investigation of electronic structure of SrFeO_3 -type $\text{Sr}_{1-x}\text{F}_x$ epitaxial thin films prepared via topotactic reaction. <i>Applied Physics Express</i> , 2016, 9, 025801.	2.4	10
17	Ionic Order Engineering in Double-Perovskite Cobaltite. <i>Chemistry of Materials</i> , 2021, 33, 5675-5680.	7.1	10
18	Investigation of ferrimagnetism and ferroelectricity in $\text{Al}_x\text{Fe}_{2x}\text{O}_3$ thin films. <i>Journal of Materials Chemistry C</i> , 2020, 8, 706-714.	5.6	9

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19	Epitaxial Growth of Orthorhombic GaFeO ₃ Thin Films on SrTiO ₃ (111) Substrates by Simple Sol-Gel Method. <i>Materials</i> , 2019, 12, 254.	3.0	8
20	Large Polarization Switching and High-Temperature Magnetoelectric Coupling in Multiferroic GaFeO ₃ Systems. <i>Inorganic Chemistry</i> , 2021, 60, 225-230.	4.2	8
21	Fabrication of Fluorite-Type Fluoride Ba _{0.5} Bi _{0.5} F _{2.5} Thin Films by Fluorination of Perovskite BaBiO ₃ Precursors with Poly(vinylidene fluoride). <i>ACS Omega</i> , 2018, 3, 13141-13145.	3.6	7
22	Antiferroelectric-to-ferroelectric phase transition in hexagonal rare-earth iron oxides. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5621-5626.	5.6	7
23	Epitaxial thin film growth of garnet-, GdFeO ₃ -, and YMnO ₃ -type LuFeO ₃ using pulsed laser deposition. <i>Thin Solid Films</i> , 2017, 642, 41-44.	1.9	6
24	Effect of Cr substitution on ferrimagnetic and ferroelectric properties of GaFeO ₃ epitaxial thin films. <i>Applied Physics Letters</i> , 2018, 113, .	3.2	6
25	Redox-Based Multilevel Resistive Switching in AlFeO ₃ Thin-Film Heterostructures. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1065-1073.	4.4	6
26	Investigation of the electronic states of A-site layer-ordered double perovskite YBaCo ₂ O _x (x = 5.3 and 6) thin films by x-ray spectroscopy. <i>Applied Physics Letters</i> , 2021, 118, .	3.2	6
27	Ferroelectric and ferrimagnetic properties of $\mu\text{-Rh}_{1-x}\text{Fe}_x\text{O}_3$ thin films. <i>Journal of the Ceramic Society of Japan</i> , 2019, 127, 474-477.		
28	Magnetic properties of Single Crystal GaFeO ₃ . <i>MRS Advances</i> , 2019, 4, 61-66.	1.0	5
29	Single-Crystal Synthesis of $\mu\text{-Fe}_2\text{O}_3$ -Type Oxides Exhibiting Room-Temperature Ferrimagnetism and Ferroelectric Polarization. <i>Crystal Growth and Design</i> , 2021, 21, 4904-4908.	3.2	5
30	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
31	Half-Metallicity and Magnetic Anisotropy in Double-Perovskite GdBaCo ₂ O ₆ Films Prepared via Topotactic Oxidation. <i>Chemistry of Materials</i> , 2023, 35, 1295-1300.	7.1	5
32	Two-Dimensional Fluorine Distribution in a Heavily Distorted Perovskite Nickel Oxyfluoride Revealed by First-Principles Calculation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 31190-31195.	3.3	4
33	Influence of fluorination on electronic states and electron transport properties of Sr ₂ IrO ₄ thin films. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8268-8274.	5.6	4
34	Modulating the Structure and Magnetic Properties of $\mu\text{-Fe}_2\text{O}_3$ Nanoparticles via Electrochemical Li ⁺ Insertion. <i>Inorganic Chemistry</i> , 2020, 59, 4357-4365.	4.2	4
35	Ferroelectric and magnetic properties in $\mu\text{-Fe}_2\text{O}_3$ epitaxial film. <i>Applied Physics Letters</i> , 2021, 119, .	3.2	4
36	Epitaxial growth of hexagonal GdFeO ₃ thin films with magnetic order by pulsed laser deposition. <i>Thin Solid Films</i> , 2022, 757, 139409.	1.9	4

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37	Theoretical Investigation of the Role of the Nitride Ion in the Magnetism of Oxynitride $\text{MnTaO}_{2-x}\text{N}$. Journal of Physical Chemistry C, 2019, 123, 25379-25384.	3.3	3
38	Improved crystalline quality and electric conductivity in infinite-layer SrFeO_2 films through Sm substitution. Applied Physics Letters, 2019, 114, .	3.2	3
39	Reactive solid phase epitaxy of layered aurivillius-type oxyfluorides $\text{Bi}_2\text{TiO}_4\text{F}_2$ using polyvinylidene fluoride. Dalton Transactions, 2019, 48, 5425-5428.	3.4	3
40	Selective fluorination of perovskite iron oxide/ruthenium oxide heterostructures via a topotactic reaction. Chemical Communications, 2019, 55, 2437-2440.	4.2	3
41	Synthesis and magnetism of MoCo_2O_4 spinel thin films. Thin Solid Films, 2021, 728, 138696.	1.9	3
42	Epitaxial-Strain-Induced Spontaneous Magnetization in Polar $\text{Mn}_2\text{Mo}_3\text{O}_8$. Chemistry of Materials, 2021, 33, 7713-7718.	7.1	3
43	Topotactic reductive synthesis of A-site cation-ordered perovskite YBaCo_2O_x ($x = 4.5 \sim 5.5$) epitaxial thin films. Japanese Journal of Applied Physics, 2016, 55, 04EJ05.	1.6	3
44	Ferroelectric and Magnetic Properties of Hexagonal ErFeO_3 Epitaxial Films. ACS Applied Electronic Materials, 2022, 4, 4547-4552.	4.4	3
45	Synthesis and transparent conductivity of crack-free LaBaSnO_3 epitaxial flexible sheets. Dalton Transactions, 2023, 52, 6317-6323.	3.4	3
46	Ferroelectricity, High Permittivity, and Tunability in Millimeter-Size Crack-Free $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$ Flexible Epitaxial Sheets. ACS Applied Electronic Materials, 2023, 5, 5234-5239.	4.4	3
47	Improvement of electric insulation in dielectric layered perovskite nickelate films via fluorination. Journal of Materials Chemistry C, 2022, 10, 1711-1717.	5.6	2
48	Crystal structure and electronic property modification of CaMn_2O_7 thin films via fluorine doping. Physical Review Materials, 2022, 6, .		
49	Electronic and transport properties of Eu-substituted infinite-layer strontium ferrite thin films. Journal of Crystal Growth, 2013, 378, 165-167.	1.6	1
50	Electric Transport Characteristics of Gallium Iron Oxide Epitaxial Thin Film. MRS Advances, 2017, 2, 3459-3464.	1.0	1
51	First-Principles Calculations on the Crystal/Electronic Structure and Phase Stability of H-Doped SrFeO_2 . Journal of Physical Chemistry C, 2017, 121, 7478-7484.	3.3	1
52	Enhancement of room-temperature magnetization in GaFeO_3 -type single crystals by Al and Sc doping. AIP Advances, 2022, 12, .	1.3	1
53	Negative magnetoresistance in different nitrogen content EuNbO_3N_x single-crystalline thin films. Journal of Materials Chemistry C, 2022, 10, 14661-14667.	5.6	1
54	Anisotropic proton conduction in double-perovskite $\text{GdBaCo}_2\text{O}_{5.5}$. Applied Physics Letters, 2023, 123, .	3.2	1

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55	Fabrication and Characterization of Multiferroic Al _{0.5} Fe _{1.5} O ₃ Epitaxial Thin Films. MRS Advances, 2019, 4, 539-544.	1.0	0
56	Hexagonal <i>R</i> FeO ₃ (<i>R</i> = Dy, Er, and Lu) Films Grown on Glass Substrates with Both Magnetic and Ferroelectric Orders. ACS Applied Electronic Materials, 0, , .	4.4	0
57	Grain engineered polar-axis-oriented epitaxial Mn ₂ Mo ₃ O ₈ films with enhanced magnetic transition temperature. Journal of Materials Chemistry C, 2023, 11, 7427-7432.	5.6	0
58	Atomic Layer Deposition of HfO ₂ Films Using Tetrakis(1-(<i>N</i> , <i>N</i> -dimethylamino)-2-propoxy)hafnium [Hf(dmap) ₄] for Advanced Gate Dielectrics Applications. ACS Applied Nano Materials, 2023, 6, 18029-18035.	5.2	0
59	Magnetic Phase Transition-Induced Modulation of Ferroelectric Properties in Hexagonal <i>R</i> FeO ₃ (<i>R</i> = Tb and Ho). ACS Applied Materials & Interfaces, 2024, 16, 17832-17837.	8.3	0
60	High-concentration doping effects of aliovalent Al and Ga on ferroelectric properties of BaTiO ₃ Films. Thin Solid Films, 2024, 796, 140339.	1.9	0
61	Large tensile-strained BaTiO ₃ films grown on a lattice-mismatched La-doped BaSnO ₃ bottom electrode. CrystEngComm, 2024, 26, 2765-2769.	2.4	0
62	Cation-placement control in double-perovskite GdBaCo ₂ O ₆ and its impact on magnetism <i>via</i> spin-state modification. Journal of Materials Chemistry C, 2024, 12, 10428-10436.	5.6	0
63	Ferroelectric BaTiO ₃ Freestanding Sheets for an Ultra-High-Speed Light-Driven Actuator. ACS Applied Materials & Interfaces, 2024, 16, 54146-54153.	8.3	0
64	Unusual Crystal Orientation in Hexagonal HoFeO ₃ Multiferroic Films and the Effect on Magnetism. Crystal Growth and Design, 0, , .	3.2	0