Tsukasa Katayama

List of Publications by Year
in descending order

51 papers	521 citations	687363 13 h-index	713466 21 g-index
51 all docs	51 docs citations	51 times ranked	686 citing authors

#	Article	IF	Citations
1	Ferroelectric and Magnetic Properties in Roomâ€Temperature Multiferroic Ga_xFe_{2â^'}_xO₃ Epitaxial Thin Films. Advanced Functional Materials, 2018, 28, 1704789.	14.9	44
2	Reversible Changes in Resistance of Perovskite Nickelate NdNiO₃ Thin Films Induced by Fluorine Substitution. ACS Applied Materials & Interfaces, 2017, 9, 10882-10887.	8.0	39
3	Topotactic fluorination of strontium iron oxide thin films using polyvinylidene fluoride. Journal of Materials Chemistry C, 2014, 2, 5350-5356.	5.5	38
4	Simple Method to Obtain Largeâ€Size Singleâ€Crystalline Oxide Sheets. Advanced Functional Materials, 2020, 30, 2001236.	14.9	33
5	Ferrimagnetism and Ferroelectricity in Cr-Substituted GaFeO₃ Epitaxial Films. Chemistry of Materials, 2018, 30, 1436-1441.	6.7	28
6	Chemical tuning of room-temperature ferrimagnetism and ferroelectricity in Îµ-Fe2O3-type multiferroic oxide thin films. Journal of Materials Chemistry C, 2017, 5, 12597-12601.	5.5	24
7	Formation of defect-fluorite structured NdNiO_xH_y epitaxial thin films via a soft chemical route from NdNiO₃ precursors. Dalton Transactions, 2016, 45, 12114-12118.	3.3	23
8	Epitaxial growth and electronic structure of oxyhydride SrVO2H thin films. Journal of Applied Physics, 2016, 120, .	2.5	21
9	Topotactic reductive fluorination of strontium cobalt oxide epitaxial thin films. Journal of Sol-Gel Science and Technology, 2015, 73, 527-530.	2.4	20
10	Control of crystal-domain orientation in multiferroic Ga0.6Fe1.4O3 epitaxial thin films. Applied Physics Letters, 2017, 110, .	3.3	20
11	Topotactic fluorination of perovskite strontium ruthenate thin films using polyvinylidene fluoride. CrystEngComm, 2017, 19, 313-317.	2.6	19
12	Ferromagnetism with strong magnetocrystalline anisotropy in A-site ordered perovskite YBaCo₂O₆ epitaxial thin films prepared via wet-chemical topotactic oxidation. Journal of Materials Chemistry C, 2018, 6, 3445-3450.	5.5	15
13	Topotactic synthesis of strontium cobalt oxyhydride thin film with perovskite structure. AIP Advances, 2015, 5, .	1.3	14
14	Switchable third ScFeO₃ polar ferromagnet with YMnO₃-type structure. Journal of Materials Chemistry C, 2020, 8, 4447-4452.	5.5	13
15	Effects of Cr substitution on the magnetic and transport properties and electronic states of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrRu</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>epitaxial thin films. Physical Review B, 2015, 92, .	3.2	12
16	p-Type Conductivity and Room-Temperature Ferrimagnetism in Spinel MoFe₂O₄ Epitaxial Thin Film. Crystal Growth and Design, 2019, 19, 902-906.	3.0	11
17	Experimental and theoretical investigation of electronic structure of SrFeO_{3â^'}_xF_x epitaxial thin films prepared via topotactic reaction. Applied Physics Express, 2016, 9, 025801.	2.4	10
18	Room-Temperature Antiferroelectricity in Multiferroic Hexagonal Rare-Earth Ferrites. ACS Applied Materials & Interfaces, 2021, 13, 4230-4235.	8.0	9

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19	Ionic Order Engineering in Double-Perovskite Cobaltite. Chemistry of Materials, 2021, 33, 5675-5680.	6.7	9
20	Metallic conductivity in infinite-layer strontium iron oxide thin films reduced by calcium hydride. Journal Physics D: Applied Physics, 2014, 47, 135304.	2.8	8
21	Investigation of ferrimagnetism and ferroelectricity in Al_xFe_{2â^'x}O₃ thin films. Journal of Materials Chemistry C, 2020, 8, 706-714.	5.5	8
22	Fabrication of Fluorite-Type Fluoride Ba0.5Bi0.5F2.5 Thin Films by Fluorination of Perovskite BaBiO3 Precursors with Poly(vinylidene fluoride). ACS Omega, 2018, 3, 13141-13145.	3.5	7
23	Epitaxial Growth of Orthorhombic GaFeO3 Thin Films on SrTiO3 (111) Substrates by Simple Sol-Gel Method. Materials, 2019, 12, 254.	2.9	7
24	Large Polarization Switching and High-Temperature Magnetoelectric Coupling in Multiferroic GaFeO3 Systems. Inorganic Chemistry, 2021, 60, 225-230.	4.0	7
25	Epitaxial thin film growth of garnet-, GdFeO3-, and YMnO3-type LuFeO3 using pulsed laser deposition. Thin Solid Films, 2017, 642, 41-44.	1.8	6
26	Effect of Cr substitution on ferrimagnetic and ferroelectric properties of GaFeO3 epitaxial thin films. Applied Physics Letters, 2018, 113, 162901.	3.3	5
27	Investigation of the electronic states of A-site layer-ordered double perovskite YBaCo2Ox (xâ€‰=â€‰5.3 and 6) thin films by x-ray spectroscopy. Applied Physics Letters, 2021, 118, .	3.3	5
28	Electronic properties of perovskite strontium chromium oxyfluoride epitaxial thin films fabricated via low-temperature topotactic reaction. Physical Review Materials, 2020, 4, .	2.4	5
29	Ferroelectric and ferrimagnetic properties of Îµ-Rh<i>_x</i>Fe_{2â^'}<i>_x</i>O<sub>3< thin films. Journal of the Ceramic Society of Japan, 2019, 127, 474-477.	1.4	4
30	Magnetic properties of Single Crystal GaFeO3. MRS Advances, 2019, 4, 61-66.	0.9	4
31	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.	3.1	4
32	Influence of fluorination on electronic states and electron transport properties of Sr2IrO4 thin films. Journal of Materials Chemistry C, 2020, 8, 8268-8274.	5.5	4
33	Modulating the Structure and Magnetic Properties of Îµ-Fe₂O₃ Nanoparticles via Electrochemical Li⁺ Insertion. Inorganic Chemistry, 2020, 59, 4357-4365.	4.0	4
34	Redox-Based Multilevel Resistive Switching in AlFeO₃ Thin-Film Heterostructures. ACS Applied Electronic Materials, 2020, 2, 1065-1073.	4.3	4
35	Single-Crystal Synthesis of Îµ-Fe2O3-Type Oxides Exhibiting Room-Temperature Ferrimagnetism and Ferroelectric Polarization. Crystal Growth and Design, 2021, 21, 4904-4908.	3.0	4
36	Antiferroelectric-to-ferroelectric phase transition in hexagonal rare-earth iron oxides. Journal of Materials Chemistry C, 2022, 10, 5621-5626.	5.5	4

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37	Theoretical Investigation of the Role of the Nitride Ion in the Magnetism of Oxynitride MnTaO₂N. Journal of Physical Chemistry C, 2019, 123, 25379-25384.	3.1	3
38	Reactive solid phase epitaxy of layered aurivillius-type oxyfluorides Bi₂TiO₄F₂ using polyvinylidene fluoride. Dalton Transactions, 2019, 48, 5425-5428.	3.3	3
39	Selective fluorination of perovskite iron oxide/ruthenium oxide heterostructures via a topotactic reaction. Chemical Communications, 2019, 55, 2437-2440.	4.1	3
40	Synthesis and magnetism of MoCo2O4 spinel thin films. Thin Solid Films, 2021, 728, 138696.	1.8	3
41	Epitaxial-Strain-Induced Spontaneous Magnetization in Polar Mn₂Mo₃O₈. Chemistry of Materials, 2021, 33, 7713-7718.	6.7	3
42	Topotactic reductive synthesis ofA-site cation-ordered perovskite YBaCo2Ox(x= 4.5â€“5.5) epitaxial thin films. Japanese Journal of Applied Physics, 2016, 55, 04EJ05.	1.5	3
43	Ferroelectric and magnetic properties in Îµ-Fe2O3 epitaxial film. Applied Physics Letters, 2021, 119, .	3.3	3
44	Improved crystalline quality and electric conductivity in infinite-layer SrFeO2 films through Sm substitution. Applied Physics Letters, 2019, 114, 232906.	3.3	2
45	Improvement of electric insulation in dielectric layered perovskite nickelate films via fluorination. Journal of Materials Chemistry C, 2022, 10, 1711-1717.	5.5	2
46	Electronic and transport properties of Eu-substituted infinite-layer strontium ferrite thin films. Journal of Crystal Growth, 2013, 378, 165-167.	1.5	1
47	Electric Transport Characteristics of Gallium Iron Oxide Epitaxial Thin Film. MRS Advances, 2017, 2, 3459-3464.	0.9	1
48	First-Principles Calculations on the Crystal/Electronic Structure and Phase Stability of H-Doped SrFeO₂. Journal of Physical Chemistry C, 2017, 121, 7478-7484.	3.1	1
49	Crystal structure and electronic property modification of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ca</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> thin films via fluorine doping. Physical Review Materials, 2022, 6, .	2.4	1
50	Fabrication and Characterization of Multiferroic Al0.5Fe1.5O3 Epitaxial Thin Films. MRS Advances, 2019, 4, 539-544.	0.9	0
51	Enhancement of room-temperature magnetization in GaFeO₃-type single crystals by Al and Sc doping. AIP Advances, 2022, 12, 065015.	1.3	0