

Akira Chikamatsu

List of Publications by Year in descending order

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84
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361413

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84
all docs

84
docs citations

84
times ranked

2077
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Band Structure of Transparent Conductor: Nb-Doped Anatase TiO ₂ . Applied Physics Express, 2008, 1, 111203.	2.4	134
2	In vacuophotoemission study of atomically controlled La _{1-x} Sr _x MnO ₃ thin films: Composition dependence of the electronic structure. Physical Review B, 2005, 71, .	3.2	99
3	Photoemission from Buried Interfaces in SrTiO ₃ /LaTiO ₃ Superlattices. Physical Review Letters, 2006, 97, 057601.	7.8	90
4	Manifestation of correlation effects in the photoemission spectra of Ca _{1-x} Sr _x RuO ₃ . Physical Review B, 2005, 72, .	3.2	64
5	Metallic transport and large anomalous Hall effect at room temperature in ferrimagnetic Mn ₄ N epitaxial thin film. Applied Physics Letters, 2014, 105, .	3.3	59
6	Band structure and Fermi surface of La _{0.6} Sr _{0.4} MnO ₃ thin films studied by in situ angle-resolved photoemission spectroscopy. Physical Review B, 2006, 73, .	3.2	46
7	Inherent charge transfer layer formation at La _{0.6} Sr _{0.4} FeO ₃ •La _{0.6} Sr _{0.4} MnO ₃ heterointerface. Applied Physics Letters, 2004, 84, 5353-5355.	3.3	43
8	Chemical potential shift and spectral-weight transfer in Pr _{1-x} Ca _x MnO ₃ revealed by photoemission spectroscopy. Physical Review B, 2006, 74, .	3.2	42
9	Reversible Changes in Resistance of Perovskite Nickelate NdNiO ₃ Thin Films Induced by Fluorine Substitution. ACS Applied Materials & Interfaces, 2017, 9, 10882-10887.	8.0	39
10	Topotactic fluorination of strontium iron oxide thin films using polyvinylidene fluoride. Journal of Materials Chemistry C, 2014, 2, 5350-5356.	5.5	38
11	Modified Surface Electronic and Magnetic Properties of La _{0.6} Sr _{0.4} MnO ₃ Thin Films for Spintronics Applications. Journal of Physical Chemistry C, 2011, 115, 16947-16953.	3.1	36
12	Simple Method to Obtain Large-Sized Single-Crystalline Oxide Sheets. Advanced Functional Materials, 2020, 30, 2001236.	14.9	33
13	Gradual disappearance of the Fermi surface near the metal-insulator transition in $La_{1-x}Sr_xMnO_3$. Physical Review B, 2005, 72, .	3.2	30
14	Robust Ti ⁴⁺ states in SrTiO ₃ layers of La _{0.6} Sr _{0.4} MnO ₃ •SrTiO ₃ •La _{0.6} Sr _{0.4} MnO ₃ junctions. Applied Physics Letters, 2006, 88, 192504.	3.3	29
15	Strong localization of doped holes in La _{1-x} Sr _x FeO ₃ from angle-resolved photoemission spectra. Physical Review B, 2006, 74, .	3.2	28
16	Angle-resolved photoemission spectroscopy of perovskite-type transition-metal oxides and their analyses using tight-binding band structure. Phase Transitions, 2006, 79, 617-635.	1.3	27
17	Valence changes associated with the metal-insulator transition in Bi _{1-x} La _x NiO ₃ . Physical Review B, 2005, 72, .	3.2	25
18	Transport properties and electronic states of anatase Ti _{1-x} W _x O ₂ epitaxial thin films. Journal of Applied Physics, 2010, 107, 023705.	2.5	24

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19	Formation of defect-fluorite structured NdNiO_xH_y epitaxial thin films via a soft chemical route from NdNiO_3 precursors. Dalton Transactions, 2016, 45, 12114-12118.	3.3	23
20	Epitaxial growth and electronic structure of oxyhydride SrVO_2H thin films. Journal of Applied Physics, 2016, 120, .	2.5	21
21	Topotactic reductive fluorination of strontium cobalt oxide epitaxial thin films. Journal of Sol-Gel Science and Technology, 2015, 73, 527-530.	2.4	20
22	Strain-induced creation and switching of anion vacancy layers in perovskite oxynitrides. Nature Communications, 2020, 11, 5923.	12.8	20
23	Topotactic fluorination of perovskite strontium ruthenate thin films using polyvinylidene fluoride. CrystEngComm, 2017, 19, 313-317.	2.6	19
24	Temperature-Dependent Soft X-ray Photoemission and Absorption Studies of Charge Disproportionation in $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$. Journal of the Physical Society of Japan, 2006, 75, 054704.	1.6	18
25	Carrier Compensation by Excess Oxygen Atoms in Anatase $\text{Ti}_{0.94}\text{Nb}_{0.06}\text{O}_{2+\delta}$ Epitaxial Thin Films. Japanese Journal of Applied Physics, 2010, 49, 041102.	1.5	18
26	Carrier compensation mechanism in heavily Nb-doped anatase $\text{Ti}_{1-x}\text{Nb}_x\text{O}_{2+\delta}$ epitaxial thin films. Journal Physics D: Applied Physics, 2011, 44, 365404.	2.8	17
27	$\text{In}\hat{\text{Situ}}$ Photoemission Study of $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ Thin Films with Suppressed Charge Fluctuations. Physical Review Letters, 2008, 100, 026402.	7.8	16
28	Ferromagnetism with strong magnetocrystalline anisotropy in A-site ordered perovskite YBaCo_2O_6 epitaxial thin films prepared <i>via</i> wet-chemical topotactic oxidation. Journal of Materials Chemistry C, 2018, 6, 3445-3450.	5.5	15
29	Topotactic synthesis of strontium cobalt oxyhydride thin film with perovskite structure. AIP Advances, 2015, 5, .	1.3	14
30	Pressure-induced change in the electronic structure of epitaxially strained $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ films. Physical Review B, 2009, 80, .	3.2	13
31	Sr surface segregation and water cleaning for atomically controlled SrTiO_3 (001) substrates studied by photoemission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 443-446.	1.7	12
32	Effects of Cr substitution on the magnetic and transport properties and electronic states of $\text{SrRu}_{1-x}\text{Cr}_x\text{O}_3$ epitaxial thin films. Physical Review B, 2015, 92, .	3.2	12
33	In situ photoemission study of $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$ epitaxial thin films. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 877-880.	1.7	11
34	p-Type Conductivity and Room-Temperature Ferrimagnetism in Spinel MoFe_2O_4 Epitaxial Thin Film. Crystal Growth and Design, 2019, 19, 902-906.	3.0	11
35	Madelung potentials and covalency effect in strained $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ films studied by core-level photoemi. Physical Review B, 2009, 80, .	3.2	10
36	Carrier Doping into SrFeO_2 Epitaxial Thin Films by Eu-Substitution. Applied Physics Express, 2011, 4, 013001.	2.4	10

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37	X-ray absorption and magnetic circular dichroism characterization of Fe-doped thin films. Journal of Magnetism and Magnetic Materials, 2013, 333, 130-133.	2.3	10
38	Photoelectrochemical Behavior of Self-Assembled Ag/Co Plasmonic Nanostructures Capped with TiO ₂ . Journal of Physical Chemistry Letters, 2014, 5, 25-29.	4.6	10
39	Experimental and theoretical investigation of electronic structure of SrFeO ₃ ^δ /F _x epitaxial thin films prepared via topotactic reaction. Applied Physics Express, 2016, 9, 025801.	2.4	10
40	Investigation of electronic states of infinite-layer SrFeO ₂ epitaxial thin films by X-ray photoemission and absorption spectroscopies. Journal of Electron Spectroscopy and Related Phenomena, 2012, 184, 547-550.	1.7	9
41	Room-Temperature Antiferroelectricity in Multiferroic Hexagonal Rare-Earth Ferrites. ACS Applied Materials & Interfaces, 2021, 13, 4230-4235.	8.0	9
42	Ionic Order Engineering in Double-Perovskite Cobaltite. Chemistry of Materials, 2021, 33, 5675-5680.	6.7	9
43	Spectral evidence for inherent "dead layer" formation at La _{1-y} Sr _y FeO ₃ /La _{1-x} Sr _x MnO ₃ heterointerface. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 479-481.	1.7	8
44	Magnetic and Transport Properties of Anatase TiO ₂ Codoped with Fe and Nb. Applied Physics Express, 2010, 3, 043001.	2.4	8
45	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
46	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). ACS Omega, 2018, 3, 13141-13145.	3.5	7
47	Strain-enhanced topotactic hydrogen substitution for oxygen in SrTiO ₃ epitaxial thin film. Applied Physics Letters, 2018, 113, 113101.	3.3	6
48	Spectroscopic and theoretical investigation of the electronic states of layered perovskite oxyfluoride Sr _{1-x} Ru _x O ₃ F ₂ thin films. Journal of Applied Physics, 2018, 124, 085101.	3.2	6
49	In situ resonant photoemission characterization of La _{0.6} Sr _{0.4} MnO ₃ layers buried in insulating perovskite oxides. Journal of Applied Physics, 2006, 99, 08S903.	2.5	5
50	In situ photoemission study of Nd _{1-x} Sr _x MnO ₃ epitaxial thin films. Physical Review B, 2009, 79, .	3.2	5
51	Systematic Analysis of ARPES Spectra of Transition-Metal Oxides: Nature of Effective d-Band. Journal of the Physical Society of Japan, 2009, 78, 094709.	1.6	5
52	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. Applied Physics Letters, 2021, 118, .	3.3	5
53	Electronic properties of perovskite strontium chromium oxyfluoride epitaxial thin films fabricated via low-temperature topotactic reaction. Physical Review Materials, 2020, 4, .	2.4	5
54	Temperature-dependence of the electronic structure of La _{1-x} Sr _x MnO ₃ thin films studied by in situ photoemission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 375-378.	1.7	4

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55	Structural Variation in Ag ⁺ Co Nanostructures Embedded in TiO ₂ Thin Films Fabricated by Pulsed Laser Deposition. <i>Chemistry Letters</i> , 2014, 43, 225-227.	1.3	4
56	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.	3.1	4
57	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.	5.5	4
58	Heavy carrier doping by hydrogen in the spin-orbit coupled Mott insulator $\text{Sr}_{1-x}\text{La}_x\text{MnO}_2$. <i>Physical Review B</i> , 2021, 104, .	2.2	4
59	Magnetotransport properties of perovskite EuNbO ₃ single-crystalline thin films. <i>Applied Physics Letters</i> , 2018, 113, 032401.	3.3	3
60	Reactive solid phase epitaxy of layered aurivillius-type oxyfluorides Bi ₂ TiO ₄ F ₂ using polyvinylidene fluoride. <i>Dalton Transactions</i> , 2019, 48, 5425-5428.	3.3	3
61	Selective fluorination of perovskite iron oxide/ruthenium oxide heterostructures <i>via</i> a topotactic reaction. <i>Chemical Communications</i> , 2019, 55, 2437-2440.	4.1	3
62	Synthesis and magnetism of MoCo ₂ O ₄ spinel thin films. <i>Thin Solid Films</i> , 2021, 728, 138696.	1.8	3
63	Epitaxial-Strain-Induced Spontaneous Magnetization in Polar Mn ₂ Mo ₃ O ₈ . <i>Chemistry of Materials</i> , 2021, 33, 7713-7718.	6.7	3
64	Fluorination and reduction of CaCrO ₃ by topochemical methods. <i>Dalton Transactions</i> , 2020, 49, 1997-2003.	3.3	3
65	Topotactic reductive synthesis of A-site cation-ordered perovskite YBaCo ₂ O _x (x= 4.5~5.5) epitaxial thin films. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 04EJ05.	1.5	3
66	Photo-induced antiferromagnetic-ferromagnetic and spin-state transition in a double-perovskite cobalt oxide thin film. <i>Communications Physics</i> , 2022, 5, .	5.3	3
67	Ionic order and magnetic properties of double-perovskite GdBaCo ₂ O _{5.5} films on SrTiO ₃ substrates. <i>Journal of the Ceramic Society of Japan</i> , 2022, 130, 429-431.	1.1	3
68	In situ angle-resolved photoemission study on La _{1-x} Sr _x MnO ₃ thin films grown by laser MBE. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 511-514.	1.7	2
69	Enhanced coercivity of half-metallic La _{0.7} Sr _{0.3} MnO ₃ by Ru substitution under in-plane uniaxial strain. <i>Journal of Applied Physics</i> , 2012, 111, 07B102.	2.5	2
70	Sr ₂ MgMoO ₆ thin films fabricated using pulsed-laser deposition with high concentrations of oxygen vacancies. <i>Applied Physics Letters</i> , 2014, 104, 261901.	3.3	2
71	Structural and electrical properties of lanthanum copper oxide epitaxial thin films with different domain morphologies. <i>CrystEngComm</i> , 2018, 20, 5012-5016.	2.6	2
72	Improved crystalline quality and electric conductivity in infinite-layer SrFeO ₂ films through Sm substitution. <i>Applied Physics Letters</i> , 2019, 114, 232906.	3.3	2

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73	Strain-induced structural transition of rutile type ReO ₂ epitaxial thin films. Applied Physics Letters, 2020, 117, 111903.	3.3	2
74	Improvement of electric insulation in dielectric layered perovskite nickelate films <i>via</i> fluorination. Journal of Materials Chemistry C, 2022, 10, 1711-1717.	5.5	2
75	Heteroepitaxial Growth of a Ta ₃ N ₅ Thin Film with Clear Anisotropic Optical Properties. Journal of Physical Chemistry Letters, 2021, 12, 12323-12328.	4.6	2
76	Carrier Compensation Mechanism of Highly Conductive Anatase Ti _{0.94} Nb _{0.06} O ₂ Epitaxial Thin Films. Materials Research Society Symposia Proceedings, 2008, 1074, 1.	0.1	1
77	Direct Observation of Gas Phase Nucleation during Physical Vapor Transport Growth of Organic Single Crystals Using a Transparent Furnace. Japanese Journal of Applied Physics, 2009, 48, 118003.	1.5	1
78	Electronic and transport properties of Eu-substituted infinite-layer strontium ferrite thin films. Journal of Crystal Growth, 2013, 378, 165-167.	1.5	1
79	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.	3.1	1
80	Crystal structure and electronic property modification of $\text{Ca}_{2-x}\text{Mn}_x\text{O}_4$ thin films via fluorine doping. Physical Review Materials, 2022, 6, .		
81	In situ angle-resolved photoemission study of half-metallic thin films. Journal of Magnetism and Magnetic Materials, 2007, 310, 1030-1032.	2.3	0
82	In situ photoemission characterization of the tunneling barrier in tunneling junctions. Journal of Magnetism and Magnetic Materials, 2007, 310, 1997-1999.	2.3	0
83	Photoemission Study of Perovskite-Type Manganites with Stripe Ordering. Journal of Superconductivity and Novel Magnetism, 2007, 20, 543-546.	1.8	0
84	Flux Crystal Growth, Crystal Structure, and Magnetic Properties of a Ternary Chromium Disulfide Ba ₉ Cr ₄ S ₁₉ with Unusual Cr ₄ S ₁₅ Tetramer Units. ACS Omega, 2021, 6, 6842-6847.	3.5	0