

# Akira Chikamatsu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

1,139  
citations

18  
h-index

31  
g-index

84  
ext. papers

1,277  
ext. citations

3.8  
avg, IF

3.64  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 80 | Photo-induced antiferromagnetic-ferromagnetic and spin-state transition in a double-perovskite cobalt oxide thin film. <i>Communications Physics</i> , <b>2022</b> , 5,   | 5.4  | 1         |
| 79 | Flux Crystal Growth, Crystal Structure, and Magnetic Properties of a Ternary Chromium Disulfide BaCrS with Unusual CrS Tetramer Units. <i>ACS Omega</i> , <b>2021</b> , 6, 6842-6847  | 3.9  |           |
| 78 | Synthesis and magnetism of MoCo <sub>2</sub> O <sub>4</sub> spinel thin films. <i>Thin Solid Films</i> , <b>2021</b> , 728, 138696  | 2.2  |           |
| 77 | Ionic Order Engineering in Double-Perovskite Cobaltite. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 5675-5680   | 9.6  | 3         |
| 76 | Room-Temperature Antiferroelectricity in Multiferroic Hexagonal Rare-Earth Ferrites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 4230-4235  | 9.5  | 5         |
| 75 | 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> , <b>2021</b> , 118, 012401 | 3.4  | 1         |
| 74 | Heteroepitaxial Growth of a TaN Thin Film with Clear Anisotropic Optical Properties.. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 12323-12328  | 6.4  | 0         |
| 73 | 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> , <b>2020</b> , 8, 8268-8274                           | 7.1  | 0         |
| 72 | Electronic properties of perovskite strontium chromium oxyfluoride epitaxial thin films fabricated via low-temperature topotactic reaction. <i>Physical Review Materials</i> , <b>2020</b> , 4,                                 | 3.2  | 5         |
| 71 | Fluorination and reduction of CaCrO by topochemical methods. <i>Dalton Transactions</i> , <b>2020</b> , 49, 1997-2003   | 4.3  | 2         |
| 70 | Strain-induced creation and switching of anion vacancy layers in perovskite oxynitrides. <i>Nature Communications</i> , <b>2020</b> , 11, 5923  | 17.4 | 8         |
| 69 | Strain-induced structural transition of rutile type ReO <sub>2</sub> epitaxial thin films. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 111903   | 3.4  | 2         |
| 68 | Simple Method to Obtain Large-Size Single-Crystalline Oxide Sheets. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001236  | 15.6 | 14        |
| 67 | Improved crystalline quality and electric conductivity in infinite-layer SrFeO <sub>2</sub> films through Sm substitution. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 232906   | 3.4  | 2         |
| 66 | Reactive solid phase epitaxy of layered aurivillius-type oxyfluorides BiTiOF using polyvinylidene fluoride. <i>Dalton Transactions</i> , <b>2019</b> , 48, 5425-5428  | 4.3  | 2         |
| 65 | Selective fluorination of perovskite iron oxide/ruthenium oxide heterostructures via a topotactic reaction. <i>Chemical Communications</i> , <b>2019</b> , 55, 2437-2440  | 5.8  | 2         |
| 64 | Two-Dimensional Fluorine Distribution in a Heavily Distorted Perovskite Nickel Oxyfluoride Revealed by First-Principles Calculation. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 31190-31195                    | 3.8  | 1         |

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|----|---|-----|----|
| 63 | p-Type Conductivity and Room-Temperature Ferrimagnetism in Spinel MoFe <sub>2</sub> O <sub>4</sub> Epitaxial Thin Film. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 902-906  | 3.5 | 9  |
| 62 | Ferromagnetism with strong magnetocrystalline anisotropy in A-site ordered perovskite YBaCo <sub>2</sub> O <sub>6</sub> epitaxial thin films prepared via wet-chemical topotactic oxidation. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 3445-3450 | 7.1 | 10 |
| 61 | Magnetotransport properties of perovskite EuNbO <sub>3</sub> single-crystalline thin films. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 032401  | 3.4 | 0  |
| 60 | Structural and electrical properties of lanthanum copper oxide epitaxial thin films with different domain morphologies. <i>CrystEngComm</i> , <b>2018</b> , 20, 5012-5016   | 3.3 | 1  |
| 59 | Spectroscopic and theoretical investigation of the electronic states of layered perovskite oxyfluoride Sr <sub>2</sub> RuO <sub>3</sub> F <sub>2</sub> thin films. <i>Physical Review B</i> , <b>2018</b> , 97,   | 3.3 | 3  |
| 58 | Strain-enhanced topotactic hydrogen substitution for oxygen in SrTiO <sub>3</sub> epitaxial thin film. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 253104   | 3.4 | 4  |
| 57 | Fabrication of Fluorite-Type Fluoride BaBiF Thin Films by Fluorination of Perovskite BaBiO Precursors with Poly(vinylidene fluoride). <i>ACS Omega</i> , <b>2018</b> , 3, 13141-13145   | 3.9 | 4  |
| 56 | Reversible Changes in Resistance of Perovskite Nickelate NdNiO Thin Films Induced by Fluorine Substitution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 10882-10887  | 9.5 | 29 |
| 55 | First-Principles Calculations on the Crystal/Electronic Structure and Phase Stability of H-Doped SrFeO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 7478-7484   | 3.8 | 1  |
| 54 | Topotactic fluorination of perovskite strontium ruthenate thin films using polyvinylidene fluoride. <i>CrystEngComm</i> , <b>2017</b> , 19, 313-317   | 3.3 | 16 |
| 53 | Experimental and theoretical investigation of electronic structure of SrFeO <sub>3-x</sub> F <sub>x</sub> epitaxial thin films prepared via topotactic reaction. <i>Applied Physics Express</i> , <b>2016</b> , 9, 025801   | 2.4 | 10 |
| 52 | Topotactic reductive synthesis of A-site cation-ordered perovskite YBaCo <sub>2</sub> O <sub>x</sub> (x= 4.5-5) epitaxial thin films. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 04EJ05   | 1.4 | 3  |
| 51 | Epitaxial growth and electronic structure of oxyhydride SrVO <sub>2</sub> H thin films. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 085305   | 2.5 | 15 |
| 50 | Formation of defect-fluorite structured NdNiO <sub>x</sub> H <sub>y</sub> epitaxial thin films via a soft chemical route from NdNiO <sub>3</sub> precursors. <i>Dalton Transactions</i> , <b>2016</b> , 45, 12114-8   | 4.3 | 10 |
| 49 | Topotactic reductive fluorination of strontium cobalt oxide epitaxial thin films. <i>Journal of Sol-Gel Science and Technology</i> , <b>2015</b> , 73, 527-530  | 2.3 | 18 |
| 48 | Effects of Cr substitution on the magnetic and transport properties and electronic states of SrRuO <sub>3</sub> epitaxial thin films. <i>Physical Review B</i> , <b>2015</b> , 92,  | 3.3 | 10 |
| 47 | Topotactic synthesis of strontium cobalt oxyhydride thin film with perovskite structure. <i>AIP Advances</i> , <b>2015</b> , 5, 107147  | 1.5 | 10 |
| 46 | Topotactic fluorination of strontium iron oxide thin films using polyvinylidene fluoride. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 5350-5356  | 7.1 | 32 |

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|----|---|-----|----|
| 45 | Photoelectrochemical Behavior of Self-Assembled Ag/Co Plasmonic Nanostructures Capped with TiO <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 25-9  | 6.4 | 10 |
| 44 | Structural Variation in Ag <sub>2</sub> O Nanostructures Embedded in TiO <sub>2</sub> Thin Films Fabricated by Pulsed Laser Deposition. <i>Chemistry Letters</i> , <b>2014</b> , 43, 225-227  | 1.7 | 4  |
| 43 | Metallic conductivity in infinite-layer strontium iron oxide thin films reduced by calcium hydride. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 135304  | 3   | 8  |
| 42 | Sr <sub>2</sub> MgMoO <sub>6</sub> thin films fabricated using pulsed-laser deposition with high concentrations of oxygen vacancies. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 261901   | 3.4 | 1  |
| 41 | Metallic transport and large anomalous Hall effect at room temperature in ferrimagnetic Mn <sub>4</sub> N epitaxial thin film. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 072410   | 3.4 | 44 |
| 40 | X-ray absorption and magnetic circular dichroism characterization of Fe-doped thin films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 333, 130-133   | 2.8 | 9  |
| 39 | Electronic and transport properties of Eu-substituted infinite-layer strontium ferrite thin films. <i>Journal of Crystal Growth</i> , <b>2013</b> , 378, 165-167  | 1.6 | 1  |
| 38 | Investigation of electronic states of infinite-layer SrFeO <sub>2</sub> epitaxial thin films by X-ray photoemission and absorption spectroscopies. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2012</b> , 184, 547-550 | 1.7 | 9  |
| 37 | Enhanced coercivity of half-metallic La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> by Ru substitution under in-plane uniaxial strain. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07B102                                    | 2.5 | 2  |
| 36 | Modified Surface Electronic and Magnetic Properties of La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> Thin Films for Spintronics Applications. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 16947-16953                  | 3.8 | 30 |
| 35 | Carrier Doping into SrFeO <sub>2</sub> Epitaxial Thin Films by Eu-Substitution. <i>Applied Physics Express</i> , <b>2011</b> , 4, 013001  | 2.4 | 9  |
| 34 | Carrier compensation mechanism in heavily Nb-doped anatase Ti <sub>1-x</sub> Nb <sub>x</sub> O <sub>2</sub> epitaxial thin films. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 365404  | 3   | 17 |
| 33 | Transport properties and electronic states of anatase Ti <sub>1-x</sub> W <sub>x</sub> O <sub>2</sub> epitaxial thin films. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 023705   | 2.5 | 23 |
| 32 | Magnetic and Transport Properties of Anatase TiO <sub>2</sub> Codoped with Fe and Nb. <i>Applied Physics Express</i> , <b>2010</b> , 3, 043001  | 2.4 | 6  |
| 31 | Carrier Compensation by Excess Oxygen Atoms in Anatase Ti <sub>0.94</sub> Nb <sub>0.06</sub> O <sub>2+δ</sub> Epitaxial Thin Films. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 041102                                     | 1.4 | 16 |
| 30 | Madelung potentials and covalency effect in strained La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> thin films studied by core-level photoemission spectroscopy. <i>Physical Review B</i> , <b>2009</b> , 80,                             | 3.3 | 9  |
| 29 | Pressure-induced change in the electronic structure of epitaxially strained La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> thin films. <i>Physical Review B</i> , <b>2009</b> , 80,   | 3.3 | 11 |
| 28 | In situ photoemission study of Nd <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> epitaxial thin films. <i>Physical Review B</i> , <b>2009</b> , 79,  | 3.3 | 5  |

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|----|--|-----|-----|
| 27 | Direct Observation of Gas Phase Nucleation during Physical Vapor Transport Growth of Organic Single Crystals Using a Transparent Furnace. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 118003  | 1.4 | 1   |
| 26 | Systematic Analysis of ARPES Spectra of Transition-Metal Oxides: Nature of EffectivedBand. <i>Journal of the Physical Society of Japan</i> , <b>2009</b> , 78, 094709  | 1.5 | 5   |
| 25 | Electronic Band Structure of Transparent Conductor: Nb-Doped Anatase TiO <sub>2</sub> . <i>Applied Physics Express</i> , <b>2008</b> , 1, 111203   | 2.4 | 122 |
| 24 | Carrier Compensation Mechanism of Highly Conductive Anatase Ti <sub>0.94</sub> Nb <sub>0.06</sub> O <sub>2</sub> Epitaxial Thin Films. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1074, 1  |     | 1   |
| 23 | In situ photoemission study of Pr <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> epitaxial thin films with suppressed charge fluctuations. <i>Physical Review Letters</i> , <b>2008</b> , 100, 026402   | 7.4 | 15  |
| 22 | Temperature-dependence of the electronic structure of La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> thin films studied by in situ photoemission spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2007</b> , 156-158, 375-378  | 1.7 | 4   |
| 21 | In situ angle-resolved photoemission study of half-metallic thin films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 1030-1032  | 2.8 |     |
| 20 | In situ photoemission characterization of the tunneling barrier in tunneling junctions. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 1997-1999  | 2.8 |     |
| 19 | Photoemission Study of Perovskite-Type Manganites with Stripe Ordering. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2007</b> , 20, 543-546  | 1.5 |     |
| 18 | Gradual disappearance of the Fermi surface near the metal-insulator transition in La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> thin films. <i>Physical Review B</i> , <b>2007</b> , 76,  | 3.3 | 29  |
| 17 | Temperature-Dependent Soft X-ray Photoemission and Absorption Studies of Charge Disproportionation in La <sub>1-x</sub> Sr <sub>x</sub> FeO <sub>3</sub> . <i>Journal of the Physical Society of Japan</i> , <b>2006</b> , 75, 054704                              | 1.5 | 18  |
| 16 | Photoemission from buried interfaces in SrTiO <sub>3</sub> /LaTiO <sub>3</sub> superlattices. <i>Physical Review Letters</i> , <b>2006</b> , 97, 057601  | 7.4 | 82  |
| 15 | Robust Ti <sup>4+</sup> states in SrTiO <sub>3</sub> layers of La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> /SrTiO <sub>3</sub> /La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> junctions. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 192504 | 3.4 | 29  |
| 14 | Strong localization of doped holes in La <sub>1-x</sub> Sr <sub>x</sub> FeO <sub>3</sub> from angle-resolved photoemission spectra. <i>Physical Review B</i> , <b>2006</b> , 74,   | 3.3 | 26  |
| 13 | Chemical potential shift and spectral-weight transfer in Pr <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> revealed by photoemission spectroscopy. <i>Physical Review B</i> , <b>2006</b> , 74,   | 3.3 | 38  |
| 12 | Angle-resolved photoemission spectroscopy of perovskite-type transition-metal oxides and their analyses using tight-binding band structure. <i>Phase Transitions</i> , <b>2006</b> , 79, 617-635   | 1.3 | 24  |
| 11 | Band structure and Fermi surface of La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> thin films studied by in situ angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , <b>2006</b> , 73,   | 3.3 | 46  |
| 10 | In situ resonant photoemission characterization of La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> layers buried in insulating perovskite oxides. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08S903  | 2.5 | 5   |

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|---|--|-----|----|
| 9 | Manifestation of correlation effects in the photoemission spectra of $\text{Ca}_{1-x}\text{Sr}_x\text{RuO}_3$ . <i>Physical Review B</i> , <b>2005</b> , 72,   | 3-3 | 54 |
| 8 | In vacuo photoemission study of atomically controlled $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ thin films: Composition dependence of the electronic structure. <i>Physical Review B</i> , <b>2005</b> , 71,  | 3-3 | 93 |
| 7 | In situ angle-resolved photoemission study on $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ thin films grown by laser MBE. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2005</b> , 144-147, 511-514                                   | 1.7 | 2  |
| 6 | Spectral evidence for inherent dead layer formation at $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3/\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ heterointerface. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2005</b> , 144-147, 479-481 | 1.7 | 8  |
| 5 | In situ photoemission study of $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$ epitaxial thin films. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2005</b> , 144-147, 877-880   | 1.7 | 11 |
| 4 | Sr surface segregation and water cleaning for atomically controlled $\text{SrTiO}_3$ (0 0 1) substrates studied by photoemission spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2005</b> , 144-147, 443-446          | 1.7 | 11 |
| 3 | Valence changes associated with the metal-insulator transition in $\text{Bi}_{1-x}\text{La}_x\text{NiO}_3$ . <i>Physical Review B</i> , <b>2005</b> , 72,  | 3-3 | 24 |
| 2 | Inherent charge transfer layer formation at $\text{La}_{0.6}\text{Sr}_{0.4}\text{FeO}_3/\text{La}_{0.6}\text{Sr}_{0.4}\text{MnO}_3$ heterointerface. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 5353-5355                                      | 3-4 | 43 |
| 1 | Epitaxial-Strain-Induced Spontaneous Magnetization in Polar $\text{Mn}_2\text{Mo}_3\text{O}_8$ . <i>Chemistry of Materials</i> ,   | 9.6 | 1  |