Daisuke Kan

List of Publications by Year
in descending order

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91	4,115	147801	114465
papers	citations	31 h-index	63 g-index

95	95	95	5021
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Blue-light emission at room temperature from Ar+-irradiated SrTiO3. Nature Materials, 2005, 4, 816-819.	27.5	543
2	Universal Behavior and Electricâ€Fieldâ€Induced Structural Transition in Rareâ€Earthâ€Substituted BiFeO₃. Advanced Functional Materials, 2010, 20, 1108-1115.	14.9	364
3	Doping BiFeO3: approaches and enhanced functionality. Physical Chemistry Chemical Physics, 2012, 14, 15953.	2.8	344
4	Tuning magnetic anisotropy by interfacially engineering the oxygen coordination environment in a transition metal oxide. Nature Materials, 2016, 15, 432-437.	27.5	202
5	Structural transitions and complex domain structures across a ferroelectric-to-antiferroelectric phase boundary in epitaxial Sm-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiFeO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mm films. Physical Review B, 2009, 80, .	3.2	170
6	Atomic-scale evolution of modulated phases at the ferroelectricâ€"antiferroelectric morphotropic phase boundary controlled by flexoelectric interaction. Nature Communications, 2012, 3, 775.	12.8	145
7	Atomic level observation of octahedral distortions at the perovskite oxide heterointerface. Scientific Reports, 2013, 3, 2214.	3.3	144
8	Blue luminescence from electron-doped SrTiO3. Applied Physics Letters, 2006, 88, 191916.	3.3	97
9	Alternative to the topological interpretation of the transverse resistivity anomalies in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrRuO</mml:mi><mml:mn>3</mml:mn></mml:msub> Physical Review B, 2018, 98, .	3.2	97
10	Epitaxial growth of ferromagnetic La2NiMnO6 with ordered double-perovskite structure. Applied Physics Letters, 2006, 89, 032504.	3.3	96
11	Multiferroic thin film of Bi2NiMnO6 with ordered double-perovskite structure. Applied Physics Letters, 2007, 90, 072903.	3.3	85
12	A half-metallic A- and B-site-ordered quadruple perovskite oxide CaCu3Fe2Re2O12 with large magnetization and a high transition temperature. Nature Communications, 2014, 5, 3909.	12.8	83
13	Phase coexistence near a morphotropic phase boundary in Sm-doped BiFeO3 films. Applied Physics Letters, 2010, 97, .	3.3	77
14	Nanoscale Structural and Chemical Properties of Antipolar Clusters in Sm-Doped BiFeO₃ Ferroelectric Epitaxial Thin Films. Chemistry of Materials, 2010, 22, 2588-2596.	6.7	73
15	Microstructure-electromechanical property correlations in rare-earth-substituted BiFeO3 epitaxial thin films at morphotropic phase boundaries. Applied Physics Letters, 2010, 97, .	3.3	73
16	Chemical Substitutionâ€Induced Ferroelectric Polarization Rotation in BiFeO₃. Advanced Materials, 2011, 23, 1765-1769.	21.0	65
17	Optical and transport properties of transparent conducting La-doped SrSnO₃thin films. Journal Physics D: Applied Physics, 2015, 48, 455106.	2.8	62
18	Thicknessâ€Dependent Structureâ€"Property Relationships in Strained (110) SrRuO₃ Thin Films. Advanced Functional Materials, 2013, 23, 1129-1136.	14.9	59

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19	Labile Ferroelastic Nanodomains in Bilayered Ferroelectric Thin Films. Advanced Materials, 2009, 21, 3497-3502.	21.0	58
20	Controlled cation stoichiometry in pulsed laser deposition-grown BaTiO₃ epitaxial thin films with laser fluence. Applied Physics Letters, 2011, 99, 081907.	3.3	57
21	Epitaxial strain effect in tetragonal SrRuO3 thin films. Journal of Applied Physics, 2013, 113, .	2.5	57
22	Effect of substrate orientation on lattice relaxation of epitaxial BiFeO3 thin films. Journal of Applied Physics, 2010, 108, .	2.5	48
23	Composition and temperature-induced structural evolution in La, Sm, and Dy substituted BiFeO3 epitaxial thin films at morphotropic phase boundaries. Journal of Applied Physics, 2011, 110, .	2.5	48
24	Octahedral Tilt Propagation Controlled by A-Site Cation Size at Perovskite Oxide Heterointerfaces. Crystal Growth and Design, 2014, 14, 2128-2132.	3.0	46
25	Control of Structural Distortions in Transitionâ€Metal Oxide Films through Oxygen Displacement at the Heterointerface. Advanced Functional Materials, 2014, 24, 5177-5184.	14.9	45
26	Combinatorial search of structural transitions: Systematic investigation of morphotropic phase boundaries in chemically substituted BiFeO₃. Journal of Materials Research, 2012, 27, 2691-2704.	2.6	43
27	Anomalous ferromagnetism in TbMnO3 thin films. Journal of Applied Physics, 2009, 105, .	2.5	42
28	Neutron Diffraction Investigations of Magnetism in BiFeO₃ Epitaxial Films. Advanced Functional Materials, 2011, 21, 1567-1574.	14.9	42
29	Overpotential-Induced Introduction of Oxygen Vacancy in La_{0.67}Sr_{0.33}MnO₃ Surface and Its Impact on Oxygen Reduction Reaction Catalytic Activity in Alkaline Solution. Journal of Physical Chemistry C, 2016, 120, 6006-6010.	3.1	37
30	Tuning of ferrimagnetism and perpendicular magnetic anisotropy in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>NiC</mml:mi><mml:msub><mml:mi mathvariant="normal">o</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> epitaxial films by the cation distribution. Physical Review B, 2020, 101, .	3.2	33
31	Strain Effect on Structural Transition in SrRuO₃ Epitaxial Thin Films. Crystal Growth and Design, 2011, 11, 5483-5487.	3.0	32
32	Structural Characterization of Ar+-Irradiated SrTiO3Showing Room-Temperature Blue Luminescence. Japanese Journal of Applied Physics, 2007, 46, L471-L473.	1.5	31
33	Spin and orbital magnetic moments in perpendicularly magnetized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">o</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mi>y</mml:mi></mml:mrow></	3.2	30
34	Resistive switching properties of epitaxial BaTiO_{3â^’Î´} thin films tuned by after-growth oxygen cooling pressure. Physical Chemistry Chemical Physics, 2016, 18, 197-204.	2.8	29
35	Crystal structures and ionic conductivity in Li2OHX (X = Cl, Br) antiperovskites. Journal of Solid State Chemistry, 2020, 286, 121263.	2.9	28
36	Perpendicular magnetic tunnel junctions based on half-metallic NiCo2O4. Applied Physics Letters, 2020, 117, .	3.3	26

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37	Structureâ€“property relations in Agâ€“Biâ€“I compounds: potential Pb-free absorbers in solar cells. Journal of Materials Chemistry A, 2019, 7, 5583-5588.	10.3	25
38	Defectâ€induced Anomalous Transverse Resistivity in an Itinerant Ferromagnetic Oxide. Physica Status Solidi (B): Basic Research, 2018, 255, 1800175.	1.5	24
39	Strong Dependence of Oxygen Octahedral Distortions in SrRuO₃ Films on Types of Substrate-Induced Epitaxial Strain. Crystal Growth and Design, 2014, 14, 6478-6485.	3.0	23
40	Transient behavior in Pt/Nb-doped SrTiO3 Schottky junctions. Applied Physics Letters, 2013, 103, .	3.3	22
41	Spin-filtering effect of ferromagnetic semiconductor La2NiMnO6. Journal of Magnetism and Magnetic Materials, 2007, 310, 1975-1977.	2.3	21
42	Ultrafast switching of ferroelastic nanodomains in bilayered ferroelectric thin films. Applied Physics Letters, 2011, 99, 182906.	3.3	21
43	Influence of oxygen vacancies on magnetic properties of perpendicularly magnetized NiCo2O4 epitaxial thin films. Journal of Applied Physics, 2020, 127, .	2.5	21
44	Colossal Barocaloric Effect by Large Latent Heat Produced by Firstâ€Order Intersiteâ€Chargeâ€Transfer Transition. Advanced Functional Materials, 2021, 31, 2009476.	14.9	21
45	Critical thickness control by deposition rate for epitaxial BaTiO3 thin films grown on SrTiO3(001). Journal of Applied Physics, 2007, 102, 114311.	2.5	20
46	Strain-induced significant increase in metal-insulator transition temperature in oxygen-deficient Fe oxide epitaxial thin films. Scientific Reports, 2015, 5, 7894.	3.3	20
47	Melting of Oxygen Vacancy Order at Oxideâ€“Heterostructure Interface. ACS Applied Materials & Interfaces, 2017, 9, 30143-30148.	8.0	19
48	Electric-field-induced modulation of the anomalous Hall effect in a heterostructured itinerant ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrRuO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review B, 2017, 96, .	3.2	19
49	Interfacially engineered oxygen octahedral rotations and their impact on strain relief in coherently grown <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> films. Physical Review B, 2016, 94, .	3.2	18
50	Direct Observation ofB-site Ordering in Multiferroic Bi2NiMnO6Thin Film. Japanese Journal of Applied Physics, 2007, 46, L845-L847.	1.5	17
51	COMBINATORIAL INVESTIGATION OF STRUCTURAL AND FERROELECTRIC PROPERTIES OF A- AND B-SITE CO-DOPED BiFeO₃ THIN FILMS. Integrated Ferroelectrics, 2010, 111, 116-124.	0.7	16
52	Unit-cell thick BaTiO3 blocks octahedral tilt propagation across oxide heterointerface. Journal of Applied Physics, 2014, 115, .	2.5	16
53	Research Update: Interface-engineered oxygen octahedral tilts in perovskite oxide heterostructures. APL Materials, 2015, 3, .	5.1	15
54	Orbital magnetic moments in <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 with interfacially controlled magnetic anisotropy. Physical Review B, 2016, 94, .	3.2	15

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55	Influence of cation off-stoichiometry on structural and transport properties of (Ba,La)SnO3 epitaxial thin films grown by pulsed laser deposition. Journal of Applied Physics, 2017, 121, .	2.5	14
56	Strain effect on thermoelectric properties of SrRuO3 epitaxial thin films. Applied Physics Letters, 2019, 115, .	3.3	14
57	Oxygen Reduction Reaction Catalytic Activities of Pure Ni-Based Perovskite-Related Structure Oxides. Chemistry of Materials, 2020, 32, 8694-8699.	6.7	14
58	Anisotropic in-plane lattice strain relaxation in brownmillerite SrFeO2.5 epitaxial thin films. Journal of Applied Physics, 2013, 114, .	2.5	13
59	Oxygen octahedral distortions in compressively strained SrRuO3 epitaxial thin films. Journal of Applied Physics, 2018, 123, 235303.	2.5	12
60	Field-sweep-rate and time dependence of transverse resistivity anomalies in ultrathin <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> films. Physical Review B, 2020, 101, .	3.2	12
61	Spin reorientation in tetragonally distorted spinel oxide<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>NiCo</mml:mi><mml:mn>2</mml:mn></mml:m mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>epitaxial films. Physical Review B, 2021, 104, .	3.2	12
62	Selective growth ofÎ±-Fe₂O₃,Î³-Fe₂O₃and Fe₃O₄at low temperatures and under ambient pressure. Japanese Journal of Applied Physics, 2019, 58, 095504.	1.5	11
63	Influence of deposition rate on magnetic properties of inverse-spinel NiCo₂O₄ epitaxial thin films grown by pulsed laser deposition. Japanese Journal of Applied Physics, 2020, 59, 110905.	1.5	11
64	Scaling of the anomalous Hall effect in perpendicularly magnetized epitaxial films of the ferrimagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ni</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 104, .	3.2	11
65	Phase control of a perovskite transition-metal oxide through oxygen displacement at the heterointerface. Dalton Transactions, 2015, 44, 10594-10607.	3.3	10
66	Preparation and optical properties of single-crystalline CaCuO2 thin films with infinite layer structure. Physica C: Superconductivity and Its Applications, 2004, 412-414, 298-302.	1.2	8
67	Geometric-shape-dependent structural transition behavior in (110) SrRuO3 epitaxial thin films. Journal of Applied Physics, 2012, 111, .	2.5	8
68	Oxygen Incorporation into Infinite-layer Structure AFeO2 (A = Sr or Ca). Chemistry Letters, 2013, 42, 732-734.	1.3	8
69	Characterization of domain structure in one-dimensional SrRuO3 nanostructure using synchrotron x-ray microdiffraction. AIP Conference Proceedings, 2016, , .	0.4	8
70	Electric field induced modulation of transverse resistivity anomalies in ultrathin <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 films. Physical Review B, 2020, 101, .	3.2	8
71	Ultrafast demagnetization in NiCo2O4 thin films probed by time-resolved microscopy. Applied Physics Letters, 2021, 119, .	3.3	8
72	Correlations between oxygen octahedral distortions and magnetic and transport properties in strained <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">La</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">Sr</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi>Co</mml:mi><mml:ms mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> thin f	3.2	7

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73	Electrochemical control and protonation of the strontium iron oxide SrFeOy by using proton-conducting electrolyte. Applied Physics Letters, 2022, 120, .	3.3	7
74	Fabrication and Iâ€“V characteristics of pâ€“n junctions composed of high-Tc superconductors and La-doped SrTiO3. Thin Solid Films, 2005, 486, 71-74.	1.8	6
75	Nanoscale oxygen ion dynamics in SrFeO2.5+Î´ epitaxial thin films. Applied Physics Letters, 2018, 113, .	3.3	6
76	Growth-temperature-dependent coalescence determines structural phase of mist-chemical-vapor-deposition-grown SnO2 thin films. Journal of Applied Physics, 2018, 124, 125303.	2.5	6
77	Ruddlesdenâ€“Popper phases of lithium-hydroxide-halide antiperovskites: two dimensional Li-ion conductors. RSC Advances, 2020, 10, 41816-41820.	3.6	6
78	Tuning magnetic anisotropy by continuous composition-gradients in a transition metal oxide. Journal of Applied Physics, 2021, 129, .	2.5	6
79	In situ manipulation of perpendicular magnetic anisotropy in half-metallic NiCo₂O₄ thin film by proton insertion. Japanese Journal of Applied Physics, 2022, 61, SM1002.	1.5	6
80	Orbital Magnetic Moments in Strained SrRuO₃ Thin Films. Journal of the Physical Society of Japan, 2019, 88, 084708.	1.6	4
81	Local conduction in junctions composed of Pt and single-crystalline Nb-doped SrTiO3. Thin Solid Films, 2010, 518, 3246-3249.	1.8	3
82	Band-to-band photoluminescence as a probe of electron carriers in Nb-doped SrTiO₃epitaxial thin films. Applied Physics Express, 2014, 7, 015503.	2.4	3
83	Metallic transport properties and electrostatic resistance modulations in LaNiO3 ultrathin channels electrochemically etched in electric-double-layer transistors. Applied Physics Letters, 2020, 117, .	3.3	3
84	Low-temperature reduction of brownmillerite CaFeO_{2.5} in LaAlO₃/CaFeO_{2.5} heterostructures made on SrTiO₃. Dalton Transactions, 2014, 43, 14596-14599.	3.3	1
85	Colossal Barocaloric Effect: Colossal Barocaloric Effect by Large Latent Heat Produced by Firstâ€Order Intersiteâ€Chargeâ€Transfer Transition (Adv. Funct. Mater. 25/2021). Advanced Functional Materials, 2021, 31, 2170178.	14.9	1
86	Triaxial magnetic anisotropy and Morin transition in Î±-Fe₂O₃ epitaxial films characterized by spin Hall magnetoresistance. Applied Physics Letters, 2022, 120, 112403.	3.3	1
87	Influence of cation off-stoichiometry on transport properties of metal/Nb-SrTiO3 junctions. Journal of Applied Physics, 2015, 117, 205305.	2.5	0
88	Direct Observation and Engineering of Oxygen Coordination Environments in Oxide Heterostructures. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 829-834.	0.2	0
89	Atomic Level Engineering of Structural and Functional Properties of Transition Metal Oxides. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 255-260.	0.2	0
90	Van der Waals Heterostructures: Controllable Magnetic Proximity Effect and Charge Transfer in 2D Semiconductor and Doubleâ€Layered Perovskite Manganese Oxide van der Waals Heterostructure (Adv.) Tj ETQq0 0 0 rgBT /Overlock 1	0.0	0

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91	Controlling Magnetic Anisotropy of an Itinerant Ferromagnetic Oxide through Atomic Level Structural Engineering. Nihon Kessho Gakkaishi, 2018, 60, 163-164.	0.0	0