Daisuke Kan

List of Publications by Year
in descending order

91 papers	4,115 citations	168829 31 h-index	129628 63 g-index
95 all docs	95 docs citations	95 times ranked	5668 citing authors

#	Article	IF	Citations
1	Electrochemical control and protonation of the strontium iron oxide SrFeOy by using proton-conducting electrolyte. Applied Physics Letters, 2022, 120, .	1.5	7
2	Triaxial magnetic anisotropy and Morin transition in Î±-Fe₂O₃ epitaxial films characterized by spin Hall magnetoresistance. Applied Physics Letters, 2022, 120, 112403.	1.5	1
3	In situ manipulation of perpendicular magnetic anisotropy in half-metallic NiCo₂O₄ thin film by proton insertion. Japanese Journal of Applied Physics, 2022, 61, SM1002.	0.8	6
4	Colossal Barocaloric Effect by Large Latent Heat Produced by Firstâ€Order Intersiteâ€Chargeâ€Transfer Transition. Advanced Functional Materials, 2021, 31, 2009476.	7.8	21
5	Tuning magnetic anisotropy by continuous composition-gradients in a transition metal oxide. Journal of Applied Physics, 2021, 129, .	1.1	6
6	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.	7.8	1
7	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:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>epitaxial films. Physical Review B, 2021, 104, .	1.1	12
8	Ultrafast demagnetization in NiCo2O4 thin films probed by time-resolved microscopy. Applied Physics Letters, 2021, 119, .	1.5	8
9	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>Co</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>. Physical Review B, 2021, 104, .	1.1	11
10	Oxygen Reduction Reaction Catalytic Activities of Pure Ni-Based Perovskite-Related Structure Oxides. Chemistry of Materials, 2020, 32, 8694-8699.	3.2	14
11	Ruddlesdenâ€“Popper phases of lithium-hydroxide-halide antiperovskites: two dimensional Li-ion conductors. RSC Advances, 2020, 10, 41816-41820.	1.7	6
12	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:msub><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></m	1.1	30
13	Perpendicular magnetic tunnel junctions based on half-metallic NiCo2O4. Applied Physics Letters, 2020, 117, .	1.5	26
14	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	1.1	0
15	Metallic transport properties and electrostatic resistance modulations in LaNiO3 ultrathin channels electrochemically etched in electric-double-layer transistors. Applied Physics Letters, 2020, 117, .	1.5	3
16	Influence of oxygen vacancies on magnetic properties of perpendicularly magnetized NiCo2O4 epitaxial thin films. Journal of Applied Physics, 2020, 127, .	1.1	21
17	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, .	1.1	33
18	Crystal structures and ionic conductivity in Li2OHX (X = Cl, Br) antiperovskites. Journal of Solid State Chemistry, 2020, 286, 121263.	1.4	28

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19	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, .	1.1	12
20	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, .	1.1	8
21	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.	0.8	11
22	Orbital Magnetic Moments in Strained SrRuO₃ Thin Films. Journal of the Physical Society of Japan, 2019, 88, 084708.	0.7	4
23	Selective growth ofÎ±-Fe₂O₃,Î³-Fe₂O₃and Fe₃O₄at low temperatures and under ambient pressure. Japanese Journal of Applied Physics, 2019, 58, 095504.	0.8	11
24	Strain effect on thermoelectric properties of SrRuO3 epitaxial thin films. Applied Physics Letters, 2019, 115, .	1.5	14
25	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:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> thin f	1.1	7
26	Structureâ€“property relations in Agâ€“Biâ€“I compounds: potential Pb-free absorbers in solar cells. Journal of Materials Chemistry A, 2019, 7, 5583-5588.	5.2	25
27	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.	0.1	0
28	Nanoscale oxygen ion dynamics in SrFeO2.5+Î´ epitaxial thin films. Applied Physics Letters, 2018, 113, .	1.5	6
29	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></mml:math> Physical Review B, 2018, 98, .	1.1	17
30	Growth-temperature-dependent coalescence determines structural phase of mist-chemical-vapor-deposition-grown SnO2 thin films. Journal of Applied Physics, 2018, 124, 125303.	1.1	6
31	Oxygen octahedral distortions in compressively strained SrRuO3 epitaxial thin films. Journal of Applied Physics, 2018, 123, 235303.	1.1	12
32	Defectâ€induced Anomalous Transverse Resistivity in an Itinerant Ferromagnetic Oxide. Physica Status Solidi (B): Basic Research, 2018, 255, 1800175.	0.7	24
33	Controlling Magnetic Anisotropy of an Itinerant Ferromagnetic Oxide through Atomic Level Structural Engineering. Nihon Kessho Gakkaishi, 2018, 60, 163-164.	0.0	0
34	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, .	1.1	14
35	Melting of Oxygen Vacancy Order at Oxideâ€“Heterostructure Interface. ACS Applied Materials & Interfaces, 2017, 9, 30143-30148.	4.0	19
36	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></mml:math> Physical Review B, 2017, 96, .	1.1	19

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37	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.	0.1	0
38	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, .	1.1	15
39	Characterization of domain structure in one-dimensional SrRuO3 nanostructure using synchrotron x-ray microdiffraction. AIP Conference Proceedings, 2016, , .	0.3	8
40	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.	1.5	37
41	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, .	1.1	18
42	Tuning magnetic anisotropy by interfacially engineering the oxygen coordination environment in a transition metal oxide. Nature Materials, 2016, 15, 432-437.	13.3	202
43	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.	1.3	29
44	Research Update: Interface-engineered oxygen octahedral tilts in perovskite oxide heterostructures. APL Materials, 2015, 3, .	2.2	15
45	Optical and transport properties of transparent conducting La-doped SrSnO₃thin films. Journal Physics D: Applied Physics, 2015, 48, 455106.	1.3	62
46	Strain-induced significant increase in metal-insulator transition temperature in oxygen-deficient Fe oxide epitaxial thin films. Scientific Reports, 2015, 5, 7894.	1.6	20
47	Phase control of a perovskite transition-metal oxide through oxygen displacement at the heterointerface. Dalton Transactions, 2015, 44, 10594-10607.	1.6	10
48	Influence of cation off-stoichiometry on transport properties of metal/Nb-SrTiO3 junctions. Journal of Applied Physics, 2015, 117, 205305.	1.1	0
49	Unit-cell thick BaTiO3 blocks octahedral tilt propagation across oxide heterointerface. Journal of Applied Physics, 2014, 115, .	1.1	16
50	Strong Dependence of Oxygen Octahedral Distortions in SrRuO₃ Films on Types of Substrate-Induced Epitaxial Strain. Crystal Growth and Design, 2014, 14, 6478-6485.	1.4	23
51	Control of Structural Distortions in Transitionâ€Metal Oxide Films through Oxygen Displacement at the Heterointerface. Advanced Functional Materials, 2014, 24, 5177-5184.	7.8	45
52	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.	5.8	83
53	Low-temperature reduction of brownmillerite CaFeO_{2.5} in LaAlO₃/CaFeO_{2.5} heterostructures made on SrTiO₃. Dalton Transactions, 2014, 43, 14596-14599.	1.6	1
54	Band-to-band photoluminescence as a probe of electron carriers in Nb-doped SrTiO₃epitaxial thin films. Applied Physics Express, 2014, 7, 015503.	1.1	3

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55	Octahedral Tilt Propagation Controlled by A-Site Cation Size at Perovskite Oxide Heterointerfaces. Crystal Growth and Design, 2014, 14, 2128-2132.	1.4	46
56	Thicknessâ€Dependent Structureâ€“Property Relationships in Strained (110) SrRuO₃ Thin Films. Advanced Functional Materials, 2013, 23, 1129-1136.	7.8	59
57	Transient behavior in Pt/Nb-doped SrTiO3 Schottky junctions. Applied Physics Letters, 2013, 103, .	1.5	22
58	Atomic level observation of octahedral distortions at the perovskite oxide heterointerface. Scientific Reports, 2013, 3, 2214.	1.6	144
59	Epitaxial strain effect in tetragonal SrRuO3 thin films. Journal of Applied Physics, 2013, 113, .	1.1	57
60	Anisotropic in-plane lattice strain relaxation in brownmillerite SrFeO2.5 epitaxial thin films. Journal of Applied Physics, 2013, 114, .	1.1	13
61	Oxygen Incorporation into Infinite-layer Structure AFeO2 (A = Sr or Ca). Chemistry Letters, 2013, 42, 732-734.	0.7	8
62	Geometric-shape-dependent structural transition behavior in (110) SrRuO3 epitaxial thin films. Journal of Applied Physics, 2012, 111, .	1.1	8
63	Combinatorial search of structural transitions: Systematic investigation of morphotropic phase boundaries in chemically substituted BiFeO₃. Journal of Materials Research, 2012, 27, 2691-2704.	1.2	43
64	Doping BiFeO3: approaches and enhanced functionality. Physical Chemistry Chemical Physics, 2012, 14, 15953.	1.3	344
65	Atomic-scale evolution of modulated phases at the ferroelectricâ€“antiferroelectric morphotropic phase boundary controlled by flexoelectric interaction. Nature Communications, 2012, 3, 775.	5.8	145
66	Strain Effect on Structural Transition in SrRuO₃ Epitaxial Thin Films. Crystal Growth and Design, 2011, 11, 5483-5487.	1.4	32
67	Neutron Diffraction Investigations of Magnetism in BiFeO₃ Epitaxial Films. Advanced Functional Materials, 2011, 21, 1567-1574.	7.8	42
68	Chemical Substitutionâ€Induced Ferroelectric Polarization Rotation in BiFeO₃. Advanced Materials, 2011, 23, 1765-1769.	11.1	65
69	Ultrafast switching of ferroelastic nanodomains in bilayered ferroelectric thin films. Applied Physics Letters, 2011, 99, 182906.	1.5	21
70	Controlled cation stoichiometry in pulsed laser deposition-grown BaTiO₃ epitaxial thin films with laser fluence. Applied Physics Letters, 2011, 99, 081907.	1.5	57
71	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, .	1.1	48
72	Nanoscale Structural and Chemical Properties of Antipolar Clusters in Sm-Doped BiFeO₃ Ferroelectric Epitaxial Thin Films. Chemistry of Materials, 2010, 22, 2588-2596.	3.2	73

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73	Universal Behavior and Electricâ€Fieldâ€Induced Structural Transition in Rareâ€Earthâ€Substituted BiFeO₃. Advanced Functional Materials, 2010, 20, 1108-1115.	7.8	364
74	Local conduction in junctions composed of Pt and single-crystalline Nb-doped SrTiO3. Thin Solid Films, 2010, 518, 3246-3249.	0.8	3
75	Phase coexistence near a morphotropic phase boundary in Sm-doped BiFeO3 films. Applied Physics Letters, 2010, 97, .	1.5	77
76	Microstructure-electromechanical property correlations in rare-earth-substituted BiFeO3 epitaxial thin films at morphotropic phase boundaries. Applied Physics Letters, 2010, 97, .	1.5	73
77	Effect of substrate orientation on lattice relaxation of epitaxial BiFeO3 thin films. Journal of Applied Physics, 2010, 108, .	1.1	48
78	COMBINATORIAL INVESTIGATION OF STRUCTURAL AND FERROELECTRIC PROPERTIES OF A- AND B-SITE CO-DOPED BiFeO₃ THIN FILMS. Integrated Ferroelectrics, 2010, 111, 116-124.	0.3	16
79	Anomalous ferromagnetism in TbMnO3 thin films. Journal of Applied Physics, 2009, 105, .	1.1	42
80	Labile Ferroelastic Nanodomains in Bilayered Ferroelectric Thin Films. Advanced Materials, 2009, 21, 3497-3502.	11.1	58
81	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></mml:msub></mml:mrow></mml:math> films. Physical Review B, 2009, 80, .	1.1	170
82	Structural Characterization of Ar+-Irradiated SrTiO3Showing Room-Temperature Blue Luminescence. Japanese Journal of Applied Physics, 2007, 46, L471-L473.	0.8	31
83	Critical thickness control by deposition rate for epitaxial BaTiO3 thin films grown on SrTiO3(001). Journal of Applied Physics, 2007, 102, 114311.	1.1	20
84	Multiferroic thin film of Bi2NiMnO6 with ordered double-perovskite structure. Applied Physics Letters, 2007, 90, 072903.	1.5	85
85	Direct Observation ofB-site Ordering in Multiferroic Bi2NiMnO6Thin Film. Japanese Journal of Applied Physics, 2007, 46, L845-L847.	0.8	17
86	Spin-filtering effect of ferromagnetic semiconductor La2NiMnO6. Journal of Magnetism and Magnetic Materials, 2007, 310, 1975-1977.	1.0	21
87	Blue luminescence from electron-doped SrTiO3. Applied Physics Letters, 2006, 88, 191916.	1.5	97
88	Epitaxial growth of ferromagnetic La2NiMnO6 with ordered double-perovskite structure. Applied Physics Letters, 2006, 89, 032504.	1.5	96
89	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.	0.8	6
90	Blue-light emission at room temperature from Ar+-irradiated SrTiO3. Nature Materials, 2005, 4, 816-819.	13.3	543

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91	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.	0.6	8