

Daisuke Kan

List of Publications by Year in descending order

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147801

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95
docs citations

95
times ranked

5021
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical control and protonation of the strontium iron oxide SrFeO ₂ by using proton-conducting electrolyte. Applied Physics Letters, 2022, 120, .	3.3	7
2	Triaxial magnetic anisotropy and Morin transition in Fe_2O_3 epitaxial films characterized by spin Hall magnetoresistance. Applied Physics Letters, 2022, 120, 112403.	3.3	1
3	In situ manipulation of perpendicular magnetic anisotropy in half-metallic NiCo ₂ O ₄ thin film by proton insertion. Japanese Journal of Applied Physics, 2022, 61, SM1002.	1.5	6
4	Colossal Barocaloric Effect by Large Latent Heat Produced by First-Order Intersite Charge Transfer Transition. Advanced Functional Materials, 2021, 31, 2009476.	14.9	21
5	Tuning magnetic anisotropy by continuous composition-gradients in a transition metal oxide. Journal of Applied Physics, 2021, 129, .	2.5	6
6	Colossal Barocaloric Effect: Colossal Barocaloric Effect by Large Latent Heat Produced by First-Order Intersite Charge Transfer Transition (Adv. Funct. Mater. 25/2021). Advanced Functional Materials, 2021, 31, 2170178.	14.9	1
7	Spin reorientation in tetragonally distorted spinel oxide NiCo_2O_4 epitaxial films. Physical Review B, 2021, 104, .	3.2	12
8	Ultrafast demagnetization in NiCo ₂ O ₄ thin films probed by time-resolved microscopy. Applied Physics Letters, 2021, 119, .	3.3	8
9	Scaling of the anomalous Hall effect in perpendicularly magnetized epitaxial films of the ferrimagnet NiCo_2O_4 . Physical Review B, 2021, 104, .	3.2	12
10	Oxygen Reduction Reaction Catalytic Activities of Pure Ni-Based Perovskite-Related Structure Oxides. Chemistry of Materials, 2020, 32, 8694-8699.	6.7	14
11	Ruddlesden-Popper phases of lithium-hydroxide-halide antiperovskites: two dimensional Li-ion conductors. RSC Advances, 2020, 10, 41816-41820.	3.6	6
12	Spin and orbital magnetic moments in perpendicularly magnetized NiCo_2O_4 . Physical Review B, 2021, 104, .	3.2	30
13	Perpendicular magnetic tunnel junctions based on half-metallic NiCo ₂ O ₄ . Applied Physics Letters, 2020, 117, .	3.3	26
14	Van der Waals Heterostructures: Controllable Magnetic Proximity Effect and Charge Transfer in 2D Semiconductor and Double-Layered Perovskite Manganese Oxide van der Waals Heterostructure (Adv. Tj ETQq0210rgBT /Overlock 1	11.0	10
15	Metallic transport properties and electrostatic resistance modulations in LaNiO ₃ ultrathin channels electrochemically etched in electric-double-layer transistors. Applied Physics Letters, 2020, 117, .	3.3	3
16	Influence of oxygen vacancies on magnetic properties of perpendicularly magnetized NiCo ₂ O ₄ epitaxial thin films. Journal of Applied Physics, 2020, 127, .	2.5	21
17	Tuning of ferrimagnetism and perpendicular magnetic anisotropy in NiCo_2O_4 epitaxial films by the cation distribution. Physical Review B, 2020, 101, .	3.2	33
18	Crystal structures and ionic conductivity in Li ₂ OHX (X = Cl, Br) antiperovskites. Journal of Solid State Chemistry, 2020, 286, 121263.	2.9	28

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19	Field-sweep-rate and time dependence of transverse resistivity anomalies in ultrathin SrRuO_3 films. Physical Review B, 2020, 101, .	3.2	12
20	Electric field induced modulation of transverse resistivity anomalies in ultrathin SrRuO_3 epitaxial films. Physical Review B, 2020, 101, .	3.2	8
21	Influence of deposition rate on magnetic properties of inverse-spinel NiCo_2O_4 epitaxial thin films grown by pulsed laser deposition. Japanese Journal of Applied Physics, 2020, 59, 110905.	1.5	11
22	Orbital Magnetic Moments in Strained SrRuO_3 Thin Films. Journal of the Physical Society of Japan, 2019, 88, 084708.	1.6	4
23	Selective growth of $\text{La}_{1-x}\text{Fe}_2\text{O}_3$, $\text{La}^3+\text{Fe}_2\text{O}_3$ and Fe_3O_4 at low temperatures and under ambient pressure. Japanese Journal of Applied Physics, 2019, 58, 095504.	1.5	11
24	Strain effect on thermoelectric properties of SrRuO_3 epitaxial thin films. Applied Physics Letters, 2019, 115, .	3.3	14
25	Correlations between oxygen octahedral distortions and magnetic and transport properties in strained $\text{La}_{0.5}\text{Sr}_{0.5}\text{Co}_2\text{O}_7$ epitaxial thin films.	3.2	17
26	Structure-property relations in AgBiI_2 compounds: potential Pb-free absorbers in solar cells. Journal of Materials Chemistry A, 2019, 7, 5583-5588.	10.3	25
27	Atomic Level Engineering of Structural and Functional Properties of Transition Metal Oxides. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 255-260.	0.2	0
28	Nanoscale oxygen ion dynamics in $\text{SrFeO}_{2.5+\delta}$ epitaxial thin films. Applied Physics Letters, 2018, 113, .	3.3	6
29	Alternative to the topological interpretation of the transverse resistivity anomalies in SrRuO_3 . Physical Review B, 2018, 98, .	3.2	17
30	Growth-temperature-dependent coalescence determines structural phase of mist-chemical-vapor-deposition-grown SnO_2 thin films. Journal of Applied Physics, 2018, 124, 125303.	2.5	6
31	Oxygen octahedral distortions in compressively strained SrRuO_3 epitaxial thin films. Journal of Applied Physics, 2018, 123, 235303.	2.5	12
32	Defect-induced Anomalous Transverse Resistivity in an Itinerant Ferromagnetic Oxide. Physica Status Solidi (B): Basic Research, 2018, 255, 1800175.	1.5	24
33	Controlling Magnetic Anisotropy of an Itinerant Ferromagnetic Oxide through Atomic Level Structural Engineering. Nihon Kessho Gakkaiishi, 2018, 60, 163-164.	0.0	0
34	Influence of cation off-stoichiometry on structural and transport properties of $(\text{Ba},\text{La})\text{SnO}_3$ epitaxial thin films grown by pulsed laser deposition. Journal of Applied Physics, 2017, 121, .	2.5	14
35	Melting of Oxygen Vacancy Order at Oxide-Heterostructure Interface. ACS Applied Materials & Interfaces, 2017, 9, 30143-30148.	8.0	19
36	Electric-field-induced modulation of the anomalous Hall effect in a heterostructured itinerant ferromagnet SrRuO_3 . Physical Review B, 2017, 96, .	3.2	19

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37	Direct Observation and Engineering of Oxygen Coordination Environments in Oxide Heterostructures. Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 829-834.	0.2	0
38	Orbital magnetic moments in SrRuO_3 epitaxial thin films with interfacially controlled magnetic anisotropy. Physical Review B, 2016, 94, .	3.2	15
39	Characterization of domain structure in one-dimensional SrRuO_3 nanostructure using synchrotron x-ray microdiffraction. AIP Conference Proceedings, 2016, , .	0.4	8
40	Overpotential-Induced Introduction of Oxygen Vacancy in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ 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
41	Interfacially engineered oxygen octahedral rotations and their impact on strain relief in coherently grown SrRuO_3 films. Physical Review B, 2016, 94, .	3.2	18
42	Tuning magnetic anisotropy by interfacially engineering the oxygen coordination environment in a transition metal oxide. Nature Materials, 2016, 15, 432-437.	27.5	202
43	Resistive switching properties of epitaxial BaTiO_3 thin films tuned by after-growth oxygen cooling pressure. Physical Chemistry Chemical Physics, 2016, 18, 197-204.	2.8	29
44	Research Update: Interface-engineered oxygen octahedral tilts in perovskite oxide heterostructures. APL Materials, 2015, 3, .	5.1	15
45	Optical and transport properties of transparent conducting La-doped SrSnO_3 thin films. Journal Physics D: Applied Physics, 2015, 48, 455106.	2.8	62
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	Phase control of a perovskite transition-metal oxide through oxygen displacement at the heterointerface. Dalton Transactions, 2015, 44, 10594-10607.	3.3	10
48	Influence of cation off-stoichiometry on transport properties of metal/Nb- SrTiO_3 junctions. Journal of Applied Physics, 2015, 117, 205305.	2.5	0
49	Unit-cell thick BaTiO_3 blocks octahedral tilt propagation across oxide heterointerface. Journal of Applied Physics, 2014, 115, .	2.5	16
50	Strong Dependence of Oxygen Octahedral Distortions in SrRuO_3 Films on Types of Substrate-Induced Epitaxial Strain. Crystal Growth and Design, 2014, 14, 6478-6485.	3.0	23
51	Control of Structural Distortions in Transition-Metal Oxide Films through Oxygen Displacement at the Heterointerface. Advanced Functional Materials, 2014, 24, 5177-5184.	14.9	45
52	A half-metallic A- and B-site-ordered quadruple perovskite oxide $\text{CaCu}_3\text{Fe}_2\text{Re}_2\text{O}_{12}$ with large magnetization and a high transition temperature. Nature Communications, 2014, 5, 3909.	12.8	83
53	Low-temperature reduction of brownmillerite $\text{CaFeO}_{2.5}$ in $\text{LaAlO}_3/\text{CaFeO}_{2.5}$ heterostructures made on SrTiO_3 . Dalton Transactions, 2014, 43, 14596-14599.	3.3	1
54	Band-to-band photoluminescence as a probe of electron carriers in Nb-doped SrTiO_3 epitaxial thin films. Applied Physics Express, 2014, 7, 015503.	2.4	3

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55	Octahedral Tilt Propagation Controlled by A-Site Cation Size at Perovskite Oxide Heterointerfaces. <i>Crystal Growth and Design</i> , 2014, 14, 2128-2132.	3.0	46
56	Thickness-Dependent Structure-Property Relationships in Strained (110) SrRuO ₃ Thin Films. <i>Advanced Functional Materials</i> , 2013, 23, 1129-1136.	14.9	59
57	Transient behavior in Pt/Nb-doped SrTiO ₃ Schottky junctions. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	22
58	Atomic level observation of octahedral distortions at the perovskite oxide heterointerface. <i>Scientific Reports</i> , 2013, 3, 2214.	3.3	144
59	Epitaxial strain effect in tetragonal SrRuO ₃ thin films. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	57
60	Anisotropic in-plane lattice strain relaxation in brownmillerite SrFeO _{2.5} epitaxial thin films. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	13
61	Oxygen Incorporation into Infinite-layer Structure AFeO_2 (A = Sr or Ca). <i>Chemistry Letters</i> , 2013, 42, 732-734.	1.3	8
62	Geometric-shape-dependent structural transition behavior in (110) SrRuO ₃ epitaxial thin films. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	8
63	Combinatorial search of structural transitions: Systematic investigation of morphotropic phase boundaries in chemically substituted BiFeO ₃ . <i>Journal of Materials Research</i> , 2012, 27, 2691-2704.	2.6	43
64	Doping BiFeO ₃ : approaches and enhanced functionality. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15953.	2.8	344
65	Atomic-scale evolution of modulated phases at the ferroelectric-antiferroelectric morphotropic phase boundary controlled by flexoelectric interaction. <i>Nature Communications</i> , 2012, 3, 775.	12.8	145
66	Strain Effect on Structural Transition in SrRuO ₃ Epitaxial Thin Films. <i>Crystal Growth and Design</i> , 2011, 11, 5483-5487.	3.0	32
67	Neutron Diffraction Investigations of Magnetism in BiFeO ₃ Epitaxial Films. <i>Advanced Functional Materials</i> , 2011, 21, 1567-1574.	14.9	42
68	Chemical Substitution-Induced Ferroelectric Polarization Rotation in BiFeO ₃ . <i>Advanced Materials</i> , 2011, 23, 1765-1769.	21.0	65
69	Ultrafast switching of ferroelastic nanodomains in bilayered ferroelectric thin films. <i>Applied Physics Letters</i> , 2011, 99, 182906.	3.3	21
70	Controlled cation stoichiometry in pulsed laser deposition-grown BaTiO ₃ epitaxial thin films with laser fluence. <i>Applied Physics Letters</i> , 2011, 99, 081907.	3.3	57
71	Composition and temperature-induced structural evolution in La, Sm, and Dy substituted BiFeO ₃ epitaxial thin films at morphotropic phase boundaries. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	48
72	Nanoscale Structural and Chemical Properties of Antipolar Clusters in Sm-Doped BiFeO ₃ Ferroelectric Epitaxial Thin Films. <i>Chemistry of Materials</i> , 2010, 22, 2588-2596.	6.7	73

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73	Universal Behavior and Electric-Field-Induced Structural Transition in Rare-Earth-Substituted BiFeO ₃ . Advanced Functional Materials, 2010, 20, 1108-1115.	14.9	364
74	Local conduction in junctions composed of Pt and single-crystalline Nb-doped SrTiO ₃ . Thin Solid Films, 2010, 518, 3246-3249.	1.8	3
75	Phase coexistence near a morphotropic phase boundary in Sm-doped BiFeO ₃ films. Applied Physics Letters, 2010, 97, .	3.3	77
76	Microstructure-electromechanical property correlations in rare-earth-substituted BiFeO ₃ epitaxial thin films at morphotropic phase boundaries. Applied Physics Letters, 2010, 97, .	3.3	73
77	Effect of substrate orientation on lattice relaxation of epitaxial BiFeO ₃ thin films. Journal of Applied Physics, 2010, 108, .	2.5	48
78	COMBINATORIAL INVESTIGATION OF STRUCTURAL AND FERROELECTRIC PROPERTIES OF A- AND B-SITE CO-DOPED BiFeO ₃ THIN FILMS. Integrated Ferroelectrics, 2010, 111, 116-124.	0.7	16
79	Anomalous ferromagnetism in TbMnO ₃ thin films. Journal of Applied Physics, 2009, 105, .	2.5	42
80	Labile Ferroelastic Nanodomains in Bilayered Ferroelectric Thin Films. Advanced Materials, 2009, 21, 3497-3502.	21.0	58
81	Structural transitions and complex domain structures across a ferroelectric-to-antiferroelectric phase boundary in epitaxial Sm-doped BiFeO_3 films. Physical Review B, 2009, 80, .	3.2	170
82	Structural Characterization of Ar ⁺ -Irradiated SrTiO ₃ Showing Room-Temperature Blue Luminescence. Japanese Journal of Applied Physics, 2007, 46, L471-L473.	1.5	31
83	Critical thickness control by deposition rate for epitaxial BaTiO ₃ thin films grown on SrTiO ₃ (001). Journal of Applied Physics, 2007, 102, 114311.	2.5	20
84	Multiferroic thin film of Bi ₂ NiMnO ₆ with ordered double-perovskite structure. Applied Physics Letters, 2007, 90, 072903.	3.3	85
85	Direct Observation of B-site Ordering in Multiferroic Bi ₂ NiMnO ₆ Thin Film. Japanese Journal of Applied Physics, 2007, 46, L845-L847.	1.5	17
86	Spin-filtering effect of ferromagnetic semiconductor La ₂ NiMnO ₆ . Journal of Magnetism and Magnetic Materials, 2007, 310, 1975-1977.	2.3	21
87	Blue luminescence from electron-doped SrTiO ₃ . Applied Physics Letters, 2006, 88, 191916.	3.3	97
88	Epitaxial growth of ferromagnetic La ₂ NiMnO ₆ with ordered double-perovskite structure. Applied Physics Letters, 2006, 89, 032504.	3.3	96
89	Fabrication and I-V characteristics of p-n junctions composed of high-T _c superconductors and La-doped SrTiO ₃ . Thin Solid Films, 2005, 486, 71-74.	1.8	6
90	Blue-light emission at room temperature from Ar ⁺ -irradiated SrTiO ₃ . Nature Materials, 2005, 4, 816-819.	27.5	543

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91	Preparation and optical properties of single-crystalline CaCuO ₂ thin films with infinite layer structure. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 412-414, 298-302.	1.2	8