Hiroki Kurata

List of Publications by Year
in descending order

40	1,017	516710 16	414414 32
papers	citations	h-index	g-index

41	41	41	1867
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tuning magnetic anisotropy by interfacially engineering the oxygen coordination environment in a transition metal oxide. Nature Materials, 2016, 15, 432-437.	27.5	202
2	Atomic level observation of octahedral distortions at the perovskite oxide heterointerface. Scientific Reports, 2013, 3, 2214.	3.3	144
3	pâ€Type Î±â€Fe₂O₃ Nanowires and their nâ€Type Transition in a Reductive Ambient. Small, 2007, 3, 1356-1361.	10.0	110
4	Thicknessâ€Dependent Structureâ€“Property Relationships in Strained (110) SrRuO₃ Thin Films. Advanced Functional Materials, 2013, 23, 1129-1136.	14.9	59
5	Epitaxial strain effect in tetragonal SrRuO3 thin films. Journal of Applied Physics, 2013, 113, .	2.5	57
6	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
7	Local electronic structure analysis for brownmillerite Ca(Sr)FeO2.5 using site-resolved energy-loss near-edge structures. Journal of Applied Physics, 2011, 110, .	2.5	36
8	Direct observation of crystal defects in an organic molecular crystals of copper hexachlorophthalocyanine by STEM-EELS. Scientific Reports, 2012, 2, 252.	3.3	34
9	Site-resolved oxygen<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi></mml:math>-edge ELNES of the layered double perovskite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2009, 80, .	3.2	23
10	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
11	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
12	Melting of Oxygen Vacancy Order at Oxideâ€“Heterostructure Interface. ACS Applied Materials & Interfaces, 2017, 9, 30143-30148.	8.0	19
13	DV-Xα calculation of electron energy-loss near edge-structures of 2,3,5,6-tetrafluoro-7,7,8,8-tetracyanoquinodimethane (F4TCNQ). Journal of Electron Spectroscopy and Related Phenomena, 2004, 135, 191-200.	1.7	18
14	Local analysis of the edge dislocation core in BaTiO₃ thin film by STEMâ€EELS. Journal of Microscopy, 2009, 236, 128-131.	1.8	18
15	Influence of nitrogen vacancies on the N K-ELNES spectrum of titanium nitride. Journal of Electron Spectroscopy and Related Phenomena, 2005, 143, 159-165.	1.7	17
16	Stability Due to Peripheral Halogenation in Phthalocyanine Complexes. Microscopy and Microanalysis, 2007, 13, 96-107.	0.4	16
17	Unit-cell thick BaTiO3 blocks octahedral tilt propagation across oxide heterointerface. Journal of Applied Physics, 2014, 115, .	2.5	16
18	Ca2FeMnO6: A Layered Double Perovskite with Unusual High-Valence Fe4+ in a Layered Arrangement. Bulletin of the Chemical Society of Japan, 2015, 88, 657-661.	3.2	16

#	Article	IF	Citations
19	Chemical Shift of Electron Energy-Loss Near-Edge Structure on the Nitrogen K-Edge and Titanium L₃-Edge at TiN/Ti Interface. Microscopy and Microanalysis, 2009, 15, 106-113.	0.4	15
20	Research Update: Interface-engineered oxygen octahedral tilts in perovskite oxide heterostructures. APL Materials, 2015, 3, .	5.1	15
21	Atomic-resolution two-dimensional mapping of holes in the cuprate superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Cu</mml:mi><mml:mi	3.2	14
22	Real-Space Mapping of Oxygen Coordination in Phase-Separated Aluminosilicate Glass: Implication for Glass Stability. ACS Applied Nano Materials, 2020, 3, 5053-5060.	5.0	14
23	EELS study of radiation damage in chlorinated Cu-phthalocyanine and poly GeO-phthalocyanine. Ultramicroscopy, 1992, 41, 33-40.	1.9	12
24	Studying substrate effects on localized surface plasmons in an individual silver nanoparticle using electron energy-loss spectroscopy. Ultramicroscopy, 2017, 175, 116-120.	1.9	12
25	Phase control of a perovskite transition-metal oxide through oxygen displacement at the heterointerface. Dalton Transactions, 2015, 44, 10594-10607.	3.3	10
26	Direct measurement of dispersion relation for surface plasmon-polaritons on silver nanoantennas. Microscopy (Oxford, England), 2014, 63, 155-159.	1.5	9
27	Extremely low count detection for EELS spectrum imaging by reducing CCD read-out noise. Ultramicroscopy, 2019, 207, 112827.	1.9	9
28	Optical guided modes coupled with ÄŒerenkov radiation excited in Si slab using angular-resolved electron energy-loss spectrum. Journal of Applied Physics, 2013, 113, 113509.	2.5	7
29	Determination of Elemental Ratio in an Atomic Column by Electron Energy Loss Spectroscopy. ACS Nano, 2016, 10, 6680-6684.	14.6	7
30	Electron orbital mapping of SrTiO3 using electron energy-loss spectroscopy. Applied Physics Letters, 2021, 119, 232902.	3.3	4
31	Glucose as a Protein-Condensing Cellular Solute. ACS Chemical Biology, 2022, 17, 567-575.	3.4	4
32	Extraction of the local coordination and electronic structures of FeO6 octahedra using crystal field multiplet calculations combined with STEM-EELS. Applied Physics Letters, 2020, 117, 132902.	3.3	3
33	Probing directionality of local electronic structure by momentum-selected STEM-EELS. Applied Physics Letters, 2018, 113, .	3.3	2
34	Understanding ordered structure in hematite nanowhiskers synthesized via thermal oxidation of iron-based substrates. Materials and Design, 2020, 191, 108596.	7.0	2
35	Study of C K-Edge High Energy Resolution Energy-Loss Near-Edge Structures of Copper Phthalocyanine and Its Chlorinated Molecular Crystals by First-Principles Band Structure Calculations. Journal of Physical Chemistry A, 2020, 124, 1735-1743.	2.5	2
36	Sub-picometer sensitivity and effect of anisotropic atomic vibrations on Ti L2,3-edge spectrum of SrTiO3. Applied Physics Letters, 2021, 119, .	3.3	2

#	Article	IF	Citations
37	Surface plasmon resonances in a branched silver nanorod. Journal of Applied Physics, 2018, 124, 093103.	2.5	1
38	B11-P-02High-resolution EELS study of organic crystals. Microscopy (Oxford, England), 2015, 64, i78.2-i78.	1.5	0
39	Local Elemental and Electronic Structure Analysis Using STEM-EELS. Nihon Kessho Gakkaishi, 2019, 61, 7-14.	0.0	0
40	Exploring (1$$overline{1}$$2)-related ordered structure in oxidation-synthesized Î±-Fe2O3 nanowhiskers. Journal of Materials Science, 2021, 56, 7286-7297.	3.7	0