

Hiroki Kurata

List of Publications by Year in descending order

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citations

516710

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32
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41
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41
docs citations

41
times ranked

1867
citing authors

#	ARTICLE	IF	CITATIONS
1	Glucose as a Protein-Condensing Cellular Solute. ACS Chemical Biology, 2022, 17, 567-575.	3.4	4
2	Exploring ($\overline{112}$)-related ordered structure in oxidation-synthesized $\hat{\pm}$ -Fe ₂ O ₃ nanowhiskers. Journal of Materials Science, 2021, 56, 7286-7297.	3.7	0
3	Electron orbital mapping of SrTiO ₃ using electron energy-loss spectroscopy. Applied Physics Letters, 2021, 119, 232902.	3.3	4
4	Sub-picometer sensitivity and effect of anisotropic atomic vibrations on Ti <i>L</i> _{2,3} -edge spectrum of SrTiO ₃ . Applied Physics Letters, 2021, 119, .	3.3	2
5	Extraction of the local coordination and electronic structures of FeO ₆ octahedra using crystal field multiplet calculations combined with STEM-EELS. Applied Physics Letters, 2020, 117, 132902.	3.3	3
6	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
7	Understanding ordered structure in hematite nanowhiskers synthesized via thermal oxidation of iron-based substrates. Materials and Design, 2020, 191, 108596.	7.0	2
8	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
9	Extremely low count detection for EELS spectrum imaging by reducing CCD read-out noise. Ultramicroscopy, 2019, 207, 112827.	1.9	9
10	Local Elemental and Electronic Structure Analysis Using STEM-EELS. Nihon Kessho Gakkaishi, 2019, 61, 7-14.	0.0	0
11	Surface plasmon resonances in a branched silver nanorod. Journal of Applied Physics, 2018, 124, 093103.	2.5	1
12	Atomic-resolution two-dimensional mapping of holes in the cuprate superconductor $L_{x-1}S_x$. Applied Physics Letters, 2018, 113, .	3.2	14
13	Probing directionality of local electronic structure by momentum-selected STEM-EELS. Applied Physics Letters, 2018, 113, .	3.3	2
14	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
15	Melting of Oxygen Vacancy Order at Oxide/Heterostructure Interface. ACS Applied Materials & Interfaces, 2017, 9, 30143-30148.	8.0	19
16	Determination of Elemental Ratio in an Atomic Column by Electron Energy Loss Spectroscopy. ACS Nano, 2016, 10, 6680-6684.	14.6	7
17	Tuning magnetic anisotropy by interfacially engineering the oxygen coordination environment in a transition metal oxide. Nature Materials, 2016, 15, 432-437.	27.5	202
18	Ca ₂ FeMnO ₆ : A Layered Double Perovskite with Unusual High-Valence Fe ⁴⁺ in a Layered Arrangement. Bulletin of the Chemical Society of Japan, 2015, 88, 657-661.	3.2	16

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19	Research Update: Interface-engineered oxygen octahedral tilts in perovskite oxide heterostructures. APL Materials, 2015, 3, .	5.1	15
20	B11-P-02 High-resolution EELS study of organic crystals. Microscopy (Oxford, England), 2015, 64, i78.2-i78.	1.5	0
21	Phase control of a perovskite transition-metal oxide through oxygen displacement at the heterointerface. Dalton Transactions, 2015, 44, 10594-10607.	3.3	10
22	Direct measurement of dispersion relation for surface plasmon-polaritons on silver nanoantennas. Microscopy (Oxford, England), 2014, 63, 155-159.	1.5	9
23	Unit-cell thick BaTiO ₃ blocks octahedral tilt propagation across oxide heterointerface. Journal of Applied Physics, 2014, 115, .	2.5	16
24	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
25	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
26	Thickness-Dependent Structure-Property Relationships in Strained (110) SrRuO ₃ Thin Films. Advanced Functional Materials, 2013, 23, 1129-1136.	14.9	59
27	Optical guided modes coupled with ÅEerenkov radiation excited in Si slab using angular-resolved electron energy-loss spectrum. Journal of Applied Physics, 2013, 113, 113509.	2.5	7
28	Atomic level observation of octahedral distortions at the perovskite oxide heterointerface. Scientific Reports, 2013, 3, 2214.	3.3	144
29	Epitaxial strain effect in tetragonal SrRuO ₃ thin films. Journal of Applied Physics, 2013, 113, .	2.5	57
30	Direct observation of crystal defects in an organic molecular crystals of copper hexachlorophthalocyanine by STEM-EELS. Scientific Reports, 2012, 2, 252.	3.3	34
31	Local electronic structure analysis for brownmillerite Ca(Sr)FeO _{2.5} using site-resolved energy-loss near-edge structures. Journal of Applied Physics, 2011, 110, .	2.5	36
32	Site-resolved oxygen K -edge ELNES of the layered double perovskite $La_{1-x}Sr_xFe_{1-x}O_{3-x}$. Physical Review B, 2009, 80, .	3.2	23
33	Chemical Shift of Electron Energy-Loss Near-Edge Structure on the Nitrogen K-Edge and Titanium L ₃ -Edge at TiN/Ti Interface. Microscopy and Microanalysis, 2009, 15, 106-113.	0.4	15
34	Local analysis of the edge dislocation core in BaTiO ₃ thin film by STEM-EELS. Journal of Microscopy, 2009, 236, 128-131.	1.8	18
35	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
36	Stability Due to Peripheral Halogenation in Phthalocyanine Complexes. Microscopy and Microanalysis, 2007, 13, 96-107.	0.4	16

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37	Fe_2O_3 Nanowires and their Fe^{2+} Transition in a Reductive Ambient. <i>Small</i> , 2007, 3, 1356-1361.	10.0	110
38	Influence of nitrogen vacancies on the N K-ELNES spectrum of titanium nitride. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 143, 159-165.	1.7	17
39	DFT calculation of electron energy-loss near edge-structures of 2,3,5,6-tetrafluoro-7,7,8,8-tetracyanoquinodimethane (F4TCNQ). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 135, 191-200.	1.7	18
40	EELS study of radiation damage in chlorinated Cu-phthalocyanine and poly GeO-phthalocyanine. <i>Ultramicroscopy</i> , 1992, 41, 33-40.	1.9	12