

Masato Kotsugi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Skill-Agnostic analysis of reflection high-energy electron diffraction patterns for Si(111) surface superstructures using machine learning. <i>Science and Technology of Advanced Materials Methods</i> , 2022, 2, 162-174.	1.3	6
2	Autonomous synthesis system integrating theoretical, informatics, and experimental approaches for large-magnetic-anisotropy materials. <i>Science and Technology of Advanced Materials Methods</i> , 2022, 2, 280-293.	1.3	3
3	High-Quality Few-Layer Graphene on Single-Crystalline SiC thin Film Grown on Affordable Wafer for Device Applications. <i>Nanomaterials</i> , 2021, 11, 392.	4.1	10
4	Investigation of local structures and electronic states of Sb-doped Mg ₂ Si by fluorescence XAFS and HAXPES. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	4
5	Symmetry prediction and knowledge discovery from X-ray diffraction patterns using an interpretable machine learning approach. <i>Scientific Reports</i> , 2020, 10, 21790.	3.3	61
6	Realizing large out-of-plane magnetic anisotropy in L_2 films grown by nitrogen-surfactant epitaxy on Cu(001). <i>Physical Review Materials</i> , 2020, 4, .	2.4	4
7	Fabrication of L10-type FeCo ordered structure using a periodic Ni buffer layer. <i>AIP Advances</i> , 2019, 9, 045307.	1.3	6
8	Automated estimation of materials parameter from X-ray absorption and electron energy-loss spectra with similarity measures. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	37
9	Fabrication of L_1 -FeNi by pulsed-laser deposition. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	16
10	Element- and Site-Specific Many-Body Interactions in Few-Layer MoS ₂ During X-Ray Absorption Processes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800539.	1.8	6
11	Real-space and pulse-by-pulse analysis of domain wall creep induced by spin-Hall torque. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 023001.	1.5	3
12	Fabrication of L10-FeNi phase by sputtering with rapid thermal annealing. <i>Journal of Alloys and Compounds</i> , 2018, 750, 164-170.	5.5	15
13	Femtosecond resonant magneto-optical Kerr effect measurement on an ultrathin magnetic film in a soft X-ray free electron laser. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 09TD02.	1.5	8
14	Operation Mechanism of GaN-based Transistors Elucidated by Element-Specific X-ray Nanospectroscopy. <i>Scientific Reports</i> , 2018, 8, 13268.	3.3	9
15	Extraction of Physical Parameters from X-ray Spectromicroscopy Data Using Machine Learning. <i>Microscopy and Microanalysis</i> , 2018, 24, 478-479.	0.4	10
16	Machine Learning-based Crystal Structure Prediction for X-Ray Microdiffraction. <i>Microscopy and Microanalysis</i> , 2018, 24, 144-145.	0.4	8
17	Photoelectron Nano-spectroscopy of Reactive Ion Etching-Induced Damages to the Trench Sidewalls and Bottoms of 4H-SiC Trench-MOSFETs. <i>E-Journal of Surface Science and Nanotechnology</i> , 2018, 16, 257-261.	0.4	0
18	Optical control of magnetization dynamics in Gd-Fe-Co films with different compositions. <i>Applied Physics Express</i> , 2017, 10, 103002.	2.4	4

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19	Real-space observation of magnetic vortex core gyration in a magnetic disc both with and without a pair tag. Japanese Journal of Applied Physics, 2016, 55, 023002.	1.5	7
20	Microscopically-Tuned Band Structure of Epitaxial Graphene through Interface and Stacking Variations Using Si Substrate Microfabrication. Scientific Reports, 2015, 4, 5173.	3.3	13
21	Striped domains of coarse-grained magnetite observed by X-ray photoemission electron microscopy as a source of the high remanence of granites in the Vredefort dome. Frontiers in Earth Science, 2015, 3, .	1.8	6
22	Temperature Dependence of Lancet Domains in Grain-Oriented Fe-3%Si Steels. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
23	Magnetic patterning of FeRh thin films by energetic light ion microbeam irradiation. Japanese Journal of Applied Physics, 2014, 53, 05FC06.	1.5	11
24	Low-temperature catalyst activator: mechanism of dense carbon nanotube forest growth studied using synchrotron radiation. IUCrj, 2014, 1, 221-227.	2.2	9
25	Formation of FeNi with L_{10} -ordered structure using high-pressure torsion. Philosophical Magazine Letters, 2014, 94, 639-646.	1.2	79
26	Addition of Co to L_{10} -ordered FeNi films: influences on magnetic properties and ordered structures. Journal Physics D: Applied Physics, 2014, 47, 425001.	2.8	27
27	Quantitative Analysis of 90° Closure Domains Occurring by Compressive Stress in Fe ₃ Si(110) Steels. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	4
28	Fe-Ni composition dependence of magnetic anisotropy in artificially fabricated L_{10} -ordered FeNi films. Journal of Physics Condensed Matter, 2014, 26, 064207.	1.8	82
29	Operating principle of a three-terminal domain wall device with perpendicularly magnetized Ta/CoFeB/MgO free layer and underlying hard magnets. Japanese Journal of Applied Physics, 2014, 53, 063002.	1.5	7
30	Orbital-specific Tunability of Many-Body Effects in Bilayer Graphene by Gate Bias and Metal Contact. Scientific Reports, 2014, 4, 3713.	3.3	28
31	Site-Selective Epitaxy of Graphene on Si Wafers. Proceedings of the IEEE, 2013, 101, 1557-1566.	21.3	13
32	Origin of strong magnetic anisotropy in L_{10} -FeNi probed by angular-dependent magnetic circular dichroism. Journal of Magnetism and Magnetic Materials, 2013, 326, 235-239.	2.3	44
33	X-ray magnetic circular dichroism photoemission electron microscopy of focused ion beam-induced magnetic patterns on iron-rhodium surfaces. Nuclear Instruments & Methods in Physics Research B, 2013, 302, 51-54.	1.4	7
34	Picoampere Resistive Switching Characteristics Realized with Vertically Contacted Carbon Nanotube Atomic Force Microscope Probe. Japanese Journal of Applied Physics, 2013, 52, 110104.	1.5	2
35	Capability of insulator study by photoemission electron microscopy at SPring-8. Journal of Synchrotron Radiation, 2013, 20, 620-625.	2.4	8
36	Observation of Micro-Magnetic Structures by Synchrotron Radiation Photoelectron Emission Microscopy. Journal of the Physical Society of Japan, 2013, 82, 021005.	1.6	12

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37	Progress in Time-Resolved Photoemission Electron Microscopy at BL25SU, SPring-8: Radiofrequency Field Excitation of Magnetic Vortex Core Gyration. Japanese Journal of Applied Physics, 2012, 51, 128001.	1.5	6
38	Magnetic Anisotropy and Chemical Order of Artificially Synthesized L1₀-Ordered FeNi Films on Au/Cu/Ni Buffer Layers. Japanese Journal of Applied Physics, 2012, 51, 010204.	1.5	37
39	Three-dimensional spin orientation in antiferromagnetic domain walls of NiO studied by x-ray magnetic linear dichroism photoemission electron microscopy. Physical Review B, 2012, 85, .	3.2	39
40	Direct observation of twin domains of NiO(100) by x-ray linear dichroism at the k -edge using photoemission electron microscopy. Physical Review B, 2012, 85, .	3.2	4
41	Microscopic and Spectroscopic Studies of Light-Induced Magnetization Switching of GdFeCo Facilitated by Photoemission Electron Microscopy. Japanese Journal of Applied Physics, 2012, 51, 073001.	1.5	9
42	Epitaxy of Graphene on 3C-SiC(111) Thin Films on Microfabricated Si(111) Substrates. Japanese Journal of Applied Physics, 2012, 51, 06FD02.	1.5	4
43	Magnetic Anisotropy and Chemical Order of Artificially Synthesized L1₀-Ordered FeNi Films on Au/Cu/Ni Buffer Layers. Japanese Journal of Applied Physics, 2012, 51, 010204.	1.5	13
44	Epitaxy of Graphene on 3C-SiC(111) Thin Films on Microfabricated Si(111) Substrates. Japanese Journal of Applied Physics, 2012, 51, 06FD02.	1.5	6
45	Microscopic and Spectroscopic Studies of Light-Induced Magnetization Switching of GdFeCo Facilitated by Photoemission Electron Microscopy. Japanese Journal of Applied Physics, 2012, 51, 073001.	1.5	8
46	Progress in Time-Resolved Photoemission Electron Microscopy at BL25SU, SPring-8: Radiofrequency Field Excitation of Magnetic Vortex Core Gyration. Japanese Journal of Applied Physics, 2012, 51, 128001.	1.5	7
47	Determination of local magnetic moment in L1₀-FeNi using photoelectron emission microscopy (PEEM). Journal of Physics: Conference Series, 2011, 266, 012095.	0.4	11
48	Dynamics of Magnetostatically Coupled Vortices Observed by Time-Resolved Photoemission Electron Microscopy. Japanese Journal of Applied Physics, 2011, 50, 053001.	1.5	9
49	Controls over Structural and Electronic Properties of Epitaxial Graphene on Silicon Using Surface Termination of 3C-SiC(111)/Si. Applied Physics Express, 2011, 4, 115104.	2.4	39
50	Dynamics of Magnetostatically Coupled Vortices Observed by Time-Resolved Photoemission Electron Microscopy. Japanese Journal of Applied Physics, 2011, 50, 053001.	1.5	12
51	Complete Assignment of Spin Domains in Antiferromagnetic NiO(100) by Photoemission Electron Microscopy and Cluster Model Calculation. Journal of the Physical Society of Japan, 2010, 79, 013703.	1.6	10
52	Novel Magnetic Domain Structure in Iron Meteorite Induced by the Presence of L1₀-FeNi. Applied Physics Express, 2010, 3, 013001.	2.4	68
53	Novel Magnetic Material for Spintronics: A Wish upon a Star. Trends in the Sciences, 2010, 15, 52-56.	0.0	0
54	X-ray nanospectroscopic characterization of a molecularly thin ferromagnetic $Ti_{1-x}Co_xO_2$ nanosheet. Applied Physics Letters, 2008, 93, 093112.	3.3	12

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55	Application of photoelectron emission microscopy (PEEM) to extraterrestrial materials. Surface Science, 2007, 601, 4764-4767.	1.9	7
56	Three-Dimensional Noncollinear Antiferromagnetic Order in Single-Crystalline FeMn Ultrathin Films. Physical Review Letters, 2004, 92, 017201.	7.8	62
57	Application of atomic stereomicroscope to surface science. Progress in Surface Science, 2003, 71, 217-239.	8.3	9
58	Metastable Domain Structures of Ferromagnetic Microstructures Observed by Soft X-Ray Magnetic Circular Dichroism Microscopy. Japanese Journal of Applied Physics, 2000, 39, L585-L587.	1.5	12
59	Deduction of atomic orbitals in a valence band by two-dimensional angular distribution of photoelectrons. Surface Science, 1999, 438, 214-222.	1.9	14
60	Symmetry Analysis of the Fermi Surface States of Sr ₂ RuO ₄ by Display-Type Photoelectron Spectroscopy. Journal of the Physical Society of Japan, 1999, 68, 1398-1403.	1.6	4
61	Fermi surface of Sr ₂ RuO ₄ studied by two-dimensional angle resolved photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 1998, 88-91, 473-477.	1.7	8
62	Symmetry analysis of the Fermi surface of Bi ₂ Sr ₂ CaCu ₂ O ₈ by display analyzer. Journal of Electron Spectroscopy and Related Phenomena, 1998, 88-91, 489-493.	1.7	9