Akira Sugawara

List of Publications by Year
in descending order

49 papers	740 citations	623734 14 h-index	552781 26 g-index
49 all docs	49 docs citations	49 times ranked	784 citing authors

#	Article	IF	Citations
1	Self-organized Fe nanowire arrays prepared by shadow deposition on NaCl(110) templates. Applied Physics Letters, 1997, 70, 1043-1045.	3.3	90
2	Three-Dimensional Observation of Magnetic Vortex Cores in Stacked Ferromagnetic Discs. Nano Letters, 2015, 15, 1309-1314.	9.1	79
3	Planar Array of 1D Gold Nanoparticles on Ridge-and-Valley Structured Carbon. Journal of the American Chemical Society, 2002, 124, 4210-4211.	13.7	70
4	Self-organized mesoscopic magnetic structures. Journal of Applied Physics, 1997, 82, 5662-5669.	2.5	64
5	Room-temperature dipole ferromagnetism in linear-self-assembling mesoscopic Fe particle arrays. Physical Review B, 1997, 56, R8499-R8502.	3.2	62
6	Magnetic field observations in CoFeB/Ta layers with 0.67-nm resolution by electron holography. Scientific Reports, 2017, 7, 16598.	3.3	29
7	Optical second-harmonic spectroscopy of Au nanowires. Journal of Applied Physics, 2004, 95, 5002-5005.	2.5	28
8	Anisotropic optical second-harmonic generation from the Au nanowire array on the NaCl(1 1 0) template. Applied Surface Science, 2003, 219, 271-275.	6.1	25
9	Domain Walls in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">(</mml:mo><mml:mi>Ga</mml:mi><mml:mo>,</mml:mo><mml:mi>Mn</mml:mi><mml:mo) Tj ET Q q 1 1 0.784314 rg Physical Review Letters, 2008, 100, 047202.	7.8	24
10	Magnetic coupling in self-organized narrow-spaced Fe nanowire arrays. IEEE Transactions on Magnetics, 1998, 34, 1081-1083.	2.1	23
11	Surface morphology of epitaxial LiF(110) and CaF[sub 2](110) layers. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 443.	1.6	20
12	Growth dynamics of fractal Ge clusters during crystallization of amorphous phase on polycrystalline Au layer. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 355-360.	5.6	19
13	Faceting of homoepitaxial MgO(110) layers prepared by electron beam evaporation. Surface Science, 2004, 558, 211-217.	1.9	16
14	New trend in electron holography. Journal Physics D: Applied Physics, 2016, 49, 244001.	2.8	16
15	Competing processes and controlling energies at the interface. Surface Science, 1997, 371, 420-430.	1.9	15
16	Nanoscale faceting of a NaCl(110) homoepitaxial layer. Journal of Crystal Growth, 2002, 237-239, 201-205.	1.5	13
17	Electron holography study of the temperature variation of the magnetic order parameter within circularly chained nickel nanoparticle rings. Applied Physics Letters, 2007, 91, 262513.	3.3	12
18	High-resolution observations of temperature-dependent magnetic domain structures withinGaxMn1â^'xAsby Lorentz microscopy. Physical Review B, 2007, 75, .	3.2	11

#	Article	IF	Citations
19	Magnetic domain structure within half-metallic ferromagnetic kagome compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">o</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvarian	2.4	11
20	Optical second harmonic generation from Pt nanowires. Applied Surface Science, 2007, 253, 8933-8938.	6.1	10
21	Quasi-one-dimensional cobalt particle arrays embedded in 5 nm-wide gold nanowires. IEEE Transactions on Magnetics, 2001, 37, 2123-2125.	2.1	9
22	A 0.5-T pure-in-plane-field magnetizing holder for in-situ Lorentz microscopy. Ultramicroscopy, 2019, 197, 105-111.	1.9	9
23	Shadow deposition of copper nanowires on the faceted NaCl(110) template. Surface Science, 2007, 601, 4449-4453.	1.9	8
24	Size distribution and morphology of islands in discontinuous silver films prepared by sputtering method. Journal of Crystal Growth, 1990, 99, 583-587.	1.5	7
25	Confirmation of information transfer using lattice images. Applied Physics Letters, 2005, 87, 174101.	3.3	7
26	Magnetic vortex structure for hollow Fe3O4 spherical submicron particles. Applied Physics Letters, 2021, 119, .	3.3	7
27	Growth dynamics of polycrystalline Ge clusters formed on surfaces during annealing of co-sputtered Geî—¸Ag films. Thin Solid Films, 1994, 251, 10-13.	1.8	6
28	Magnetic microstructures of neodymium in Nd2Fe14B permanent magnet by hard x-ray magnetic-circular dichroism using focused x-ray beam. Applied Physics Letters, 2010, 97, 022510.	3.3	6
29	Vector Field Tomography by Electron Holography. Microscopy and Microanalysis, 2014, 20, 268-269.	0.4	6
30	Self-alignment of metallic nanowires in CaF2-based composite films grown on stepped NaCl substrates. Journal of Magnetism and Magnetic Materials, 1996, 156, 151-152.	2.3	5
31	Twin-electron biprism. Journal of Electron Microscopy, 2011, 60, 353-358.	0.9	5
32	Measuring magnetisation reversal in micron-sized Nd2Fe14B single crystals by microbeam x-ray magnetic circular dichroism. Journal Physics D: Applied Physics, 2016, 49, 425001.	2.8	5
33	Magnetic imaging using ultra-high-voltage cold-field-emission microscopes. Journal of Magnetism and Magnetic Materials, 2022, 542, 168593.	2.3	4
34	Interface structures of Pt/Au(001) epitaxial bilayer films prepared by means of ion beam sputtering. Journal of Crystal Growth, 1991, 115, 596-601.	1.5	3
35	Hysteresis Loops and Microstructures of Fe/Ag Multilayer Films. Japanese Journal of Applied Physics, 1991, 30, 3810-3814.	1.5	3
36	Long period reconstruction of GaAs(001) surface. Surface Science, 1997, 394, L174-L178.	1.9	3

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37	Development of Pulse Magnetization System on Aberration Corrected 1.2-MV Cold Field-Emission Transmission Electron Microscope. Microscopy and Microanalysis, 2016, 22, 1702-1703.	0.4	3
38	In-situ lorentz and electron-holography imaging of domain-wall propagation and grain-boundary pinning within anisotropic Nd-Fe-B sintered-magnet thin films. Journal of Magnetism and Magnetic Materials, 2021, 532, 167903.	2.3	3
39	Continuous variation in modulation period of charge-induced reconstruction of GaAs(001) surface. Surface Science, 1998, 416, L1079-L1084.	1.9	2
40	Anisotropic cross-tie walls and their confinement in self-organized undulating Fe film. Journal of Applied Physics, 2008, 103, 053909.	2.5	1
41	Optical second harmonic generation from self-organized Au nanowire arrays on the NaCl(110) template. , 2002, , .		1
42	Self-Organized Mesoscopic Magnetic Structures. , 0, , .		0
43	Self-Organization of Nano-Scale Ferromagnetic Arrays.. Materia Japan, 1998, 37, 495-497.	0.1	0
44	Phase transition between charge-induced long-period and (2Ã—4) reconstructions of GaAs(001) surface. Surface Science, 1999, 438, 142-147.	1.9	0
45	Sub-Nanometer-Resolution Magnetic Field Observation Using Aberration-Corrected 1.2-MV Holography Electron Microscope with Pulse Magnetization System. Microscopy and Microanalysis, 2017, 23, 452-453.	0.4	0
46	Transmission, Scanning Transmission, and Scanning Electron Microscopy. , 2021, , 247-271.		0
47	Annular Dark Field Imaging of Iron Nanoparticles Embedded in Gold Nanowires. Materia Japan, 2001, 40, 1024-1024.	0.1	0
48	Depolarization field in Au nanowires investigated by optical second harmonic spectroscopy. , 2004, , .		0
49	Structure and Magnetic Properties of Fe/Ag Multilayer Films Prepared by DC Sputtering. , 1991, , .		0