Zentaro Akase

List of Publications by Year
in descending order

32 papers	434 citations	1039880 9 h-index	752573 20 g-index
32 all docs	32 docs citations	32 times ranked	611 citing authors

#	Article	IF	Citations
1	Magnetic flux in soft magnetic Fe-Si-B-P-Cu amorphous alloy containing nanocrystallites analyzed by electron holography. Journal of Magnetism and Magnetic Materials, 2022, 541, 168519.	1.0	7
2	Magnetic vortex structure for hollow Fe3O4 spherical submicron particles. Applied Physics Letters, 2021, 119, .	1.5	7
3	Advanced Electron Microscopy for Materials Science. Materials Transactions, 2021, 62, 1589-1595.	0.4	4
4	Direct observation of electric and magnetic fields of functional materials. Materials Science and Engineering Reports, 2020, 142, 100564.	14.8	14
5	Effects of Dynamical Electron Diffraction on Phase Shift Detected by Electron Holography. Materials Transactions, 2019, 60, 2120-2124.	0.4	4
6	Electron Holography Study of Secondary Electron Distribution around Charged Epoxy Resin. Materials Transactions, 2019, 60, 2114-2119.	0.4	6
7	Development of a secondary electron energy analyzer for a transmission electron microscope. Microscopy (Oxford, England), 2018, 67, 121-124.	0.7	1
8	Secondary electron effect on electron beam induced charging of SiO₂particle analyzed by electron holography. Microscopy (Oxford, England), 2017, 66, 167-171.	0.7	4
9	Strain measurement in ferromagnetic crystals using dark-field electron holography. Applied Physics Letters, 2016, 109, .	1.5	8
10	Electrostatic-Potential Analysis of Charged Particles by Split-Illumination Electron Holography. Microscopy and Microanalysis, 2015, 21, 1969-1970.	0.2	0
11	In-situ Lorentz microscopy of Fe85Si2B8P4Cu1 nanocrystalline soft magnetic alloys. Journal of Magnetism and Magnetic Materials, 2015, 375, 10-14.	1.0	28
12	Split-illumination electron holography for improved evaluation of electrostatic potential associated with electrophotography. Applied Physics Letters, 2014, 104, .	1.5	9
13	Electron Holographic Visualization of Collective Motion of Electrons Through Electric Field Variation. Microscopy and Microanalysis, 2014, 20, 1015-1021.	0.2	6
14	Collective Motion of Secondary Electrons Visualized by Electron Holography. Microscopy and Microanalysis, 2014, 20, 246-247.	0.2	0
15	Suppression of charging effect on collagen fibrils utilizing a conductive probe in TEM. Microscopy (Oxford, England), 2013, 62, 451-455.	0.7	1
16	Multifunctional TEM-specimen holder equipped with a piezodriving probe and an electron irradiation port. Microscopy (Oxford, England), 2013, 62, 487-490.	0.7	0
17	Electron holography of magnetic field generated by a magnetic recording head. Microscopy (Oxford,) Tj ETQq1 1 0.784314 rgBT /Ove	0.7	5
18	Electron Holography Study of the Charging Effect in Microfibrils of Sciatic Nerve Tissues. Microscopy and Microanalysis, 2013, 19, 54-57.	0.2	4

#	Article	IF	Citations
19	Computer simulation of electric field variations due to movements of electric charges. Journal of Electron Microscopy, 2012, 61, 217-222.	0.9	6
20	Lorentz Microscopy of Magnetic Domain-Wall Pinning on Artificially Introduced Holes in Electrical Steel Sheets. Materials Transactions, 2012, 53, 1330-1333.	0.4	14
21	Imaging of magnetic flux distribution in vicinity of insulating particles in high-Tc superconductor by electron holography. Journal of Applied Physics, 2012, 111, .	1.1	7
22	Electron holography study of remanence states in exchange-biased MnPd/Fe bilayers grown epitaxially on MgO(001). Journal of Electron Microscopy, 2011, 60, 235-242.	0.9	2
23	Charging Effects on SEM/SIM Contrast of Metal/Insulator System in Various Metallic Coating Conditions. Materials Transactions, 2010, 51, 1080-1083.	0.4	79
24	In situ Lorentz microscopy in an alternating magnetic field. Journal of Electron Microscopy, 2010, 59, 207-213.	0.9	8
25	Lorentz Microscopy on Electrical Steel Sheets in Dynamic Magnetic Fields. Materia Japan, 2009, 48, 458-465.	0.1	0
26	Observation of Magnetic Domain Structure in Fe₈₁B₁₅Si₄ Amorphous Alloy by Lorentz Microscopy and Electron Holography. Materials Transactions, 2009, 50, 2839-2843.	0.4	5
27	Lorentz Microscopic Observations of Electrical Steel Sheets under an Alternating Current Magnetic Field. Materials Transactions, 2007, 48, 2626-2630.	0.4	19
28	The structure and ordering of Îµ-MnO2. Journal of Solid State Chemistry, 2006, 179, 753-774.	1.4	83
29	Synthesis of amorphous carbon nanoparticles and carbon encapsulated metal nanoparticles in liquid benzene by an electric plasma discharge in ultrasonic cavitation field. Ultrasonics Sonochemistry, 2006, 13, 6-12.	3.8	22
30	Carbon encapsulated iron carbide nanoparticles synthesized in ethanol by an electric plasma discharge in an ultrasonic cavitation field. Materials Chemistry and Physics, 2006, 98, 34-38.	2.0	55
31	Synthesis of Fe-filled carbon nanocapsules by an electric plasma discharge in an ultrasonic cavitation field of liquid ethanol. Journal of Materials Research, 2006, 21, 2524-2533.	1.2	18
32	Magnetic Domain Structures in Electrical Steel Sheets Studied by Lorentz Microscopy and Electron Holography. Materials Transactions, 2005, 46, 974-977.	0.4	8