

Takeshi Kasama

List of Publications by Year in descending order

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119
papers

5,497
citations

87888

38
h-index

88630

70
g-index

119
all docs

119
docs citations

119
times ranked

8250
citing authors

#	ARTICLE	IF	CITATIONS
1	A divergent heritage for complex organics in Isheyev lithic clasts. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 205, 119-148.	3.9	14
2	Stability of a Bifunctional Cu-Based Core@Zeolite Shell Catalyst for Dimethyl Ether Synthesis Under Redox Conditions Studied by Environmental Transmission Electron Microscopy and <i>In Situ</i> X-Ray Ptychography. <i>Microscopy and Microanalysis</i> , 2017, 23, 501-512.	0.4	19
3	Effects of dissolved oxygen concentration and iron addition on immediate-early gene expression of <i>Magnetospirillum gryphiswaldense</i> MSR-1. <i>FEMS Microbiology Letters</i> , 2017, 364, .	1.8	1
4	Nano-mineralogy and -geochemistry of high-grade diasporic karst-type bauxite from Parnassos-Ghiona mines, Greece. <i>Ore Geology Reviews</i> , 2017, 84, 228-244.	2.7	42
5	Texture and microstructure evolution in nickel electrodeposited from an additive-free Watts electrolyte. <i>Surface and Coatings Technology</i> , 2016, 299, 1-6.	4.8	18
6	Multi-scale three-dimensional characterization of iron particles in dusty olivine: Implications for paleomagnetism of chondritic meteorites. <i>American Mineralogist</i> , 2016, 101, 2070-2084.	1.9	35
7	Kinetics of Fe ³⁺ mineral crystallization from ferrihydrite in the presence of Si at alkaline conditions and implications for nuclear waste disposal. <i>American Mineralogist</i> , 2016, 101, 2057-2069.	1.9	25
8	The role of nano-perovskite in the negligible thorium release in seawater from Greek bauxite residue (red mud). <i>Scientific Reports</i> , 2016, 6, 21737.	3.3	16
9	Origin of Spontaneous Core-Shell AlGaAs Nanowires Grown by Molecular Beam Epitaxy. <i>Crystal Growth and Design</i> , 2016, 16, 7251-7255.	3.0	42
10	Reagent-Free Synthesis and Plasmonic Antioxidation of Unique Nanostructured Metal-Metal Oxide Core-Shell Microfibers. <i>Advanced Materials</i> , 2016, 28, 4097-4104.	21.0	21
11	In-situ TEM investigation of microstructural evolution in magnetron sputtered Al-Zr and Al-Zr-Si coatings during heat treatment. <i>Materials and Design</i> , 2016, 89, 1071-1078.	7.0	20
12	Effect of maghemization on the magnetic properties of nonstoichiometric pseudo-single domain magnetite particles. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2969-2979.	2.5	12
13	Longitudinal domain wall formation in elongated assemblies of ferromagnetic nanoparticles. <i>Scientific Reports</i> , 2015, 5, 14536.	3.3	10
14	Influence of Aging Products on Tensile Deformation Behavior of Al-0.62 mass%Mg-0.32 mass%Si Alloy. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015, 79, 273-279.	0.4	5
15	Highly Dense Isolated Metal Atom Catalytic Sites: Dynamic Formation and In Situ Observations. <i>Chemistry - A European Journal</i> , 2015, 21, 17397-17402.	3.3	36
16	Towards quantitative electrostatic potential mapping of working semiconductor devices using off-axis electron holography. <i>Ultramicroscopy</i> , 2015, 152, 10-20.	1.9	31
17	Doping GaP Core-Shell Nanowire <i>pn</i> -junctions: A Study by Off-Axis Electron Holography. <i>Small</i> , 2015, 11, 2687-2695.	10.0	22
18	Environmental TEM Study of Electron Beam Induced Electrochemistry of Pr _{0.64} Ca _{0.36} MnO ₃ Catalysts for Oxygen Evolution. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5301-5310.	3.1	41

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19	Measurement of the penetration depth and coherence length of MgB_2 in all directions using transmission electron microscopy. <i>Physical Review B</i> , 2015, 91, .	3.2	25
20	Long-lived magnetism from solidification-driven convection on the pallasite parent body. <i>Nature</i> , 2015, 517, 472-475.	27.8	68
21	Synthesis and characterization of Fe-Ni-Al ₂ O ₃ egg-shell catalyst for H ₂ generation by ammonia decomposition. <i>Applied Catalysis A: General</i> , 2015, 505, 548-556.	4.3	24
22	Creation of High Mobility Two-Dimensional Electron Gases via Strain Induced Polarization at an Otherwise Nonpolar Complex Oxide Interface. <i>Nano Letters</i> , 2015, 15, 1849-1854.	9.1	89
23	Enhancement of the chemical stability in confined Bi ₂ O ₃ . <i>Nature Materials</i> , 2015, 14, 500-504.	27.5	148
24	3D visualization of TiO ₂ nanocrystals in mesoporous nanocomposite using energy filtered transmission electron microscopy tomography. <i>Microscopy (Oxford, England)</i> , 2014, 63, i27.1-i27.	1.5	1
25	Off-axis electron holography of ferromagnetic multilayer nanowires. <i>Journal of Applied Physics</i> , 2014, 116, 023902.	2.5	20
26	Transmission electron microscopy of unstained hybrid Au nanoparticles capped with PAA (plasma-poly-allylamine): Structure and electron irradiation effects. <i>Micron</i> , 2014, 67, 1-9.	2.2	8
27	Towards quantitative off-axis electron holographic mapping of the electric field around the tip of a sharp biased metallic needle. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	30
28	Room Temperature Formation of High Mobility Two-Dimensional Electron Gases at Crystalline Complex Oxide Interfaces. <i>Advanced Materials</i> , 2014, 26, 1462-1467.	21.0	65
29	Visualized effect of oxidation on magnetic recording fidelity in pseudo-single-domain magnetite particles. <i>Nature Communications</i> , 2014, 5, 5154.	12.8	71
30	Interferometric methods for mapping static electric and magnetic fields. <i>Comptes Rendus Physique</i> , 2014, 15, 126-139.	0.9	30
31	A Polyphenylene Support for Pd Catalysts with Exceptional Catalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8645-8648.	13.8	72
32	Solar nebula magnetic fields recorded in the Semarkona meteorite. <i>Science</i> , 2014, 346, 1089-1092.	12.6	130
33	Oxidation of Bioethanol using Zeolite-Encapsulated Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12513-12516.	13.8	80
34	Hydrothermal synthesis, off-axis electron holography and magnetic properties of Fe ₃ O ₄ nanoparticles. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012062.	0.4	3
35	Nanomagnetic intergrowths in Fe-Ni meteoritic metal: The potential for time-resolved records of planetesimal dynamo fields. <i>Earth and Planetary Science Letters</i> , 2014, 388, 237-248.	4.4	38
36	Observing thermomagnetic stability of nonideal magnetite particles: Good paleomagnetic recorders?. <i>Geophysical Research Letters</i> , 2014, 41, 7041-7047.	4.0	26

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37	Magnetic characterization of synthetic titanomagnetites: Quantifying the recording fidelity of ideal synthetic analogs. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 161-175.	2.5	11
38	Tomographic Heating Holder for <i>In Situ</i> TEM: Study of Pt/C and PtPd/Al ₂ O ₃ Catalysts as a Function of Temperature. <i>Microscopy and Microanalysis</i> , 2014, 20, 982-990.	0.4	7
39	Comparison of approaches and artefacts in the measurement of detector modulation transfer functions. <i>Ultramicroscopy</i> , 2013, 129, 18-29.	1.9	11
40	Structural and optical properties of self-catalytic GaAs:Mn nanowires grown by molecular beam epitaxy on silicon substrates. <i>Nanoscale</i> , 2013, 5, 7410.	5.6	17
41	A high-mobility two-dimensional electron gas at the spinel/perovskite interface of $\text{I}^3\text{-Al}_2\text{O}_3/\text{SrTiO}_3$. <i>Nature Communications</i> , 2013, 4, 1371.	12.8	285
42	RAFT copolymerization of itaconic anhydride and 2-methoxyethyl acrylate: a multifunctional scaffold for preparation of "clickable" gold nanoparticles. <i>Chemical Communications</i> , 2013, 49, 4803.	4.1	13
43	Dipolar Magnetism in Ordered and Disordered Low-Dimensional Nanoparticle Assemblies. <i>Scientific Reports</i> , 2013, 3, 1234.	3.3	120
44	Ferrimagnetic/ferroelastic domain interactions in magnetite below the Verwey transition. Part I: electron holography and Lorentz microscopy. <i>Phase Transitions</i> , 2013, 86, 67-87.	1.3	35
45	Effect of post-growth annealing on secondary phase formation in low-temperature-grown Mn-doped GaAs. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 145309.	2.8	9
46	Oxidation of Dodecanoate Intercalated Iron(II)–Iron(III) Layered Double Hydroxide to Form 2D Iron(III) (Hydr)oxide Layers. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5718-5727.	2.0	24
47	The measurement of electrostatic potentials in core/shell GaN nanowires using off-axis electron holography. <i>Journal of Physics: Conference Series</i> , 2013, 471, 012041.	0.4	7
48	Ferrimagnetic/ferroelastic domain interactions in magnetite below the Verwey transition: Part II. Micromagnetic and image simulations. <i>Phase Transitions</i> , 2013, 86, 88-102.	1.3	14
49	Self-assembly and flux closure studies of magnetic nanoparticle rings. <i>Journal of Materials Chemistry</i> , 2011, 21, 16686.	6.7	42
50	Synthesis of Nano-sized Boehmites for Optimum Phosphate Sorption. <i>Separation Science and Technology</i> , 2011, 46, 818-824.	2.5	16
51	Magnetic properties of ilmenite-hematite single crystals from the Ecstall pluton near Prince Rupert, British Columbia. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	13
52	Mineral magnetism of dusty olivine: A credible recorder of pre-accretionary remanence. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	34
53	Direct measurement of the charge distribution along a biased carbon nanotube bundle using electron holography. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	36
54	Mapping boron in silicon solar cells using electron energy-loss spectroscopy. <i>Journal of Physics: Conference Series</i> , 2011, 326, 012052.	0.4	1

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55	Conventional and 360 degree electron tomography of a micro-crystalline silicon solar cell. <i>Journal of Physics: Conference Series</i> , 2011, 326, 012057.	0.4	1
56	Aberration-corrected electron microscopy of MnAs and As nanocrystals and voids in annealed (Ga,Mn)As. <i>Journal of Physics: Conference Series</i> , 2011, 326, 012018.	0.4	1
57	The cation diffusion facilitator proteins MamB and MamM of <i>Magnetospirillum gryphiswaldense</i> have distinct and complex functions, and are involved in magnetite biomineralization and magnetosome membrane assembly. <i>Molecular Microbiology</i> , 2011, 82, 818-835.	2.5	125
58	GaAs ⁺ MnAs nanowires. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1576-1580.	1.5	12
59	Spin reorientation in $\hat{\pm}$ -Fe ₂ O ₃ nanoparticles induced by interparticle exchange interactions in $\hat{\pm}$ -Fe ₂ O ₃ /NiO nanocomposites. <i>Physical Review B</i> , 2011, 84, .	3.2	12
60	Voids and Mn-rich inclusions in a (Ga,Mn)As ferromagnetic semiconductor investigated by transmission electron microscopy. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	14
61	Formation process and superparamagnetic properties of (Mn,Ga)As nanocrystals in GaAs fabricated by annealing of (Ga,Mn)As layers with low Mn content. <i>Physical Review B</i> , 2011, 84, .	3.2	27
62	Early Proterozoic weathering processes under low O ₂ conditions reconstructed from a 2.45 Ga paleosol in Pronto, Canada. <i>American Mineralogist</i> , 2011, 96, 1613-1623.	1.9	7
63	Theoretical and experimental factors affecting measurements of semiconductor mean inner potentials. <i>Journal of Physics: Conference Series</i> , 2010, 209, 012030.	0.4	3
64	Interpretation of electron beam induced charging of oxide layers in a transistor studied using electron holography. <i>Journal of Physics: Conference Series</i> , 2010, 209, 012064.	0.4	9
65	The quantitative measurement of magnetic moments from phase images of nanoparticles and nanostructures ⁺ . <i>Fundamentals. Ultramicroscopy</i> , 2010, 110, 425-432.	1.9	34
66	Nonadiabatic Spin Torque Investigated Using Thermally Activated Magnetic Domain Wall Dynamics. <i>Physical Review Letters</i> , 2010, 105, 056601.	7.8	86
67	Localized Magnetic Fields in Arbitrary Directions Using Patterned Nanomagnets. <i>Nano Letters</i> , 2010, 10, 1549-1553.	9.1	21
68	Direct observation of ferrimagnetic/ferroelastic domain interactions in magnetite below the Verwey transition. <i>Earth and Planetary Science Letters</i> , 2010, 297, 10-17.	4.4	48
69	Thermal modification of hematite-ilmenite intergrowths in the Ecstall pluton, British Columbia, Canada. <i>American Mineralogist</i> , 2010, 95, 153-160.	1.9	15
70	Calixarene-stabilised cobalt nanoparticle rings: Self-assembly and collective magnetic properties. <i>Supramolecular Chemistry</i> , 2009, 21, 189-195.	1.2	18
71	The application of Lorentz transmission electron microscopy to the study of lamellar magnetism in hematite-ilmenite. <i>American Mineralogist</i> , 2009, 94, 262-269.	1.9	18
72	Magnetic and microscopic characterization of magnetite nanoparticles adhered to clay surfaces. <i>American Mineralogist</i> , 2009, 94, 1120-1129.	1.9	25

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73	The Role of Magnetic Vortex Formation in Chains of Spherical FeNi Nanoparticles: A Micromagnetics Study. Japanese Journal of Applied Physics, 2009, 48, 103002.	1.5	7
74	Magnetic fluctuations in nanosized goethite ($\hat{\alpha}$ -FeOOH) grains. Journal of Physics Condensed Matter, 2009, 21, 016007.	1.8	39
75	Electron microscopy study of CeOxâ€“Pd/Î±-Al2O3 catalysts for methane dry reforming. Journal of Applied Physics, 2009, 105, 083531.	2.5	10
76	Biom mineralization and Magnetism in Magnetotactic Bacteria. Microscopy and Microanalysis, 2009, 15, 90-91.	0.4	0
77	Reversal of Flux Closure States in Cobalt Nanoparticle Rings With Coaxial Magnetic Pulses. Advanced Materials, 2008, 20, 4248-4252.	21.0	33
78	Ledge-flow-controlled catalyst interface dynamics during Si nanowire growth. Nature Materials, 2008, 7, 372-375.	27.5	248
79	Electron Holography for the Study of Magnetic Nanomaterials. Accounts of Chemical Research, 2008, 41, 665-674.	15.6	61
80	Large-Scale Synthesis of Single-Crystalline Iron Oxide Magnetic Nanorings. Journal of the American Chemical Society, 2008, 130, 16968-16977.	13.7	438
81	Quantitative determination of vortex core dimensions in head-to-head domain walls using off-axis electron holography. Applied Physics Letters, 2008, 92, 112502.	3.3	19
82	Domain Size Effect on Dielectric Properties of Barium Titanate Ceramics. Japanese Journal of Applied Physics, 2008, 47, 7607.	1.5	190
83	Correlation between magnetic spin structure and the three-dimensional geometry in chemically synthesized nanoscale magnetite rings. Applied Physics Letters, 2008, 92, .	3.3	9
84	Three-Dimensional Tomographic Imaging and Characterization of Iron Compounds within Alzheimer's Plaque Core Material. Journal of Alzheimer's Disease, 2008, 14, 235-245.	2.6	136
85	Low-temperature exchange coupling between Fe2O3 and FeTiO3: Insight into the mechanism of giant exchange bias in a natural nanoscale intergrowth. Physical Review B, 2007, 76, .	3.2	29
86	Spin torque and heating effects in current-induced domain wall motion probed by transmission electron microscopy. Applied Physics Letters, 2007, 90, 132506.	3.3	57
87	Transverse domain walls in nanoconstrictions. Applied Physics Letters, 2007, 91, 112502.	3.3	39
88	Domain walls, domain wall transformations and structural changes in permalloy nanowires when subjected to current pulses. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3922-3928.	1.8	22
89	Magnetic properties, microstructure, composition, and morphology of greigite nanocrystals in magnetotactic bacteria from electron holography and tomography. American Mineralogist, 2006, 91, 1216-1229.	1.9	64
90	Effects of internal mineral structures on the magnetic remanence of silicate-hosted titanomagnetite inclusions: An electron holography study. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	50

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91	Remanent magnetic states and interactions in nano-pillars. <i>Nanotechnology</i> , 2006, 17, 4367-4373.	2.6	22
92	Quantitative determination of domain wall coupling energetics. <i>Applied Physics Letters</i> , 2006, 88, 212510.	3.3	39
93	Periodic Inclusion of Room-Temperature-Ferromagnetic Metal Phosphide Nanoparticles in Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9759-9763.	2.6	12
94	Characterization of the magnetic properties of a GdBa ₂ Cu ₃ O ₇ /La _{0.75} Sr _{0.25} MnO ₃ superlattice using off-axis electron holography. <i>Applied Surface Science</i> , 2006, 252, 3977-3983.	6.1	9
95	Fabrication of curved-line nanostructures on membranes for transmission electron microscopy investigations of domain walls. <i>Microelectronic Engineering</i> , 2006, 83, 1726-1729.	2.4	13
96	Magnetic microstructure of iron sulfide crystals in magnetotactic bacteria from off-axis electron holography. <i>Physica B: Condensed Matter</i> , 2006, 384, 249-252.	2.7	14
97	Synthesis and characterisation of silica encapsulated cobalt nanoparticles and nanoparticle chains. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 301, 336-342.	2.3	23
98	Local study of the magnetism of Co-doped ZnO thin films. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 1739-1742.	2.8	9
99	Evolution and propagation of magnetic vortices in chains of Permalloy nanospheres. <i>Journal of Applied Physics</i> , 2006, 99, 08C103.	2.5	15
100	Off-axis electron holography observation of magnetic microstructure in a magnetite (001) thin film containing antiphase domains. <i>Physical Review B</i> , 2006, 73, .	3.2	33
101	Lamellar magnetism: effects of interface versus exchange interactions of nanoscale exsolutions in the ilmenite-hematite system. <i>Journal of Physics: Conference Series</i> , 2005, 17, 154-167.	0.4	16
102	Conventional and back-side focused ion beam milling for off-axis electron holography of electrostatic potentials in transistors. <i>Ultramicroscopy</i> , 2005, 103, 67-81.	1.9	39
103	Magnetic induction mapping of magnetite chains in magnetotactic bacteria at room temperature and close to the Verwey transition using electron holography. <i>Journal of Physics: Conference Series</i> , 2005, 17, 108-121.	0.4	57
104	Remanent magnetization states and interactions in square arrays of 100-nm cobalt dots measured using transmission electron microscopy. <i>Journal of Applied Physics</i> , 2005, 98, 053909.	2.5	13
105	Origin of Self-Reversed Thermoremanent Magnetization. <i>Physical Review Letters</i> , 2005, 95, 268501.	7.8	19
106	Direct observation of heavy metal-mineral association from the Clark Fork River Superfund Complex: Implications for metal transport and bioavailability. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1651-1663.	3.9	169
107	Interactions of uranium with bacteria and kaolinite clay. <i>Chemical Geology</i> , 2005, 220, 237-243.	3.3	61
108	Off-axis electron holography of pseudo-spin-valve thin-film magnetic elements. <i>Journal of Applied Physics</i> , 2005, 98, 013903.	2.5	22

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109	Multifunctional Roles for Serum Protein Fetuin-A in Inhibition of Human Vascular Smooth Muscle Cell Calcification. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 2920-2930.	6.1	326
110	Direct observation of domain-wall pinning at nanoscale constrictions. <i>Applied Physics Letters</i> , 2005, 87, 102509.	3.3	127
111	Environmentally important, poorly crystalline Fe/Mn hydrous oxides: Ferrihydrite and a possibly new vernadite-like mineral from the Clark Fork River Superfund Complex. <i>American Mineralogist</i> , 2005, 90, 718-724.	1.9	101
112	Uranium Biosorption by the Lichen <i>Trapelia involuta</i> at a Uranium Mine. <i>Geomicrobiology Journal</i> , 2004, 21, 159-167.	2.0	44
113	Hydrothermal Formation of Hydroxyapatite Layers on the Surface of Type-A Zeolite. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1395-1397.	3.8	31
114	Off-axis electron holography of magnetic nanowires and chains, rings, and planar arrays of magnetic nanoparticles. <i>Microscopy Research and Technique</i> , 2004, 64, 390-402.	2.2	106
115	Anoxic dissolution processes of biotite: implications for Fe behavior during Archean weathering. <i>Earth and Planetary Science Letters</i> , 2004, 224, 117-129.	4.4	39
116	Effects of nanoscale exsolution in hematite-ilmenite on the acquisition of stable natural remanent magnetization. <i>Earth and Planetary Science Letters</i> , 2004, 224, 461-475.	4.4	39
117	Iron oxidation state of a 2.45-Byr-old paleosol developed on mafic volcanics. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 213-221.	3.9	42
118	The effect of microorganisms on Fe precipitation rates at neutral pH. <i>Chemical Geology</i> , 2001, 180, 117-128.	3.3	90
119	Biomaterials at the nanoscale. , 0, , 377-435.		7