

Koji Kimoto

List of Publications by Year in descending order

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247
papers

9,413
citations

70961

41
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45213

90
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255
all docs

255
docs citations

255
times ranked

9873
citing authors

#	ARTICLE	IF	CITATIONS
1	Near room-temperature formation of a skyrmion crystal in thin-films of the helimagnet FeGe. Nature Materials, 2011, 10, 106-109.	13.3	1,374
2	Skyrmion flow near room temperature in an ultralow current density. Nature Communications, 2012, 3, 988.	5.8	709
3	Characterization and properties of green-emitting $\hat{\text{I}}^2\text{-SiAlON:Eu}^{2+}$ powder phosphors for white light-emitting diodes. Applied Physics Letters, 2005, 86, 211905.	1.5	656
4	Element-selective imaging of atomic columns in a crystal using STEM and EELS. Nature, 2007, 450, 702-704.	13.7	359
5	Magnetic stripes and skyrmions with helicity reversals. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8856-8860.	3.3	289
6	Towards control of the size and helicity of skyrmions in helimagnetic alloys by spin-orbit coupling. Nature Nanotechnology, 2013, 8, 723-728.	15.6	264
7	Biskyrmion states and their current-driven motion in a layered manganite. Nature Communications, 2014, 5, 3198.	5.8	241
8	Origin of the Monoclinic-to-Monoclinic Phase Transition and Evidence for the Centrosymmetric Crystal Structure of BiMnO ₃ . Journal of the American Chemical Society, 2007, 129, 971-977.	6.6	194
9	Visualizing and identifying single atoms using electron energy-loss spectroscopy with low accelerating voltage. Nature Chemistry, 2009, 1, 415-418.	6.6	152
10	Direct observation of single dopant atom in light-emitting phosphor of $\hat{\text{I}}^2\text{-SiAlON:Eu}^{2+}$. Applied Physics Letters, 2009, 94, .	1.5	147
11	Nanomechanical cleavage of molybdenum disulphide atomic layers. Nature Communications, 2014, 5, 3631.	5.8	144
12	Non-nitrogen doped and non-metal oxygen reduction electrocatalysts based on carbon nanotubes: mechanism and origin of ORR activity. Energy and Environmental Science, 2014, 7, 1950-1958.	15.6	123
13	Coordination and interface analysis of atomic-layer-deposition Al ₂ O ₃ on Si(001) using energy-loss near-edge structures. Applied Physics Letters, 2003, 83, 4306-4308.	1.5	112
14	Plasmonic p-n Junction for Infrared Light to Chemical Energy Conversion. Journal of the American Chemical Society, 2019, 141, 2446-2450.	6.6	110
15	Spatial resolution in EFTEM elemental maps. Journal of Microscopy, 1995, 180, 277-287.	0.8	108
16	Local crystal structure analysis with several picometer precision using scanning transmission electron microscopy. Ultramicroscopy, 2010, 110, 778-782.	0.8	105
17	Spontaneous Formation of Wurzite-CdS/Zinc Blende-CdTe Heterodimers through a Partial Anion Exchange Reaction. Journal of the American Chemical Society, 2011, 133, 17598-17601.	6.6	105
18	Carbon Nanofilm with a New Structure and Property. Japanese Journal of Applied Physics, 2003, 42, L1073-L1076.	0.8	104

#	ARTICLE	IF	CITATIONS
19	An Artificial Z-Scheme Constructed from Dye-Sensitized Metal Oxide Nanosheets for Visible Light-Driven Overall Water Splitting. <i>Journal of the American Chemical Society</i> , 2020, 142, 8412-8420.	6.6	103
20	Performance of low-voltage STEM/TEM with delta corrector and cold field emission gun. <i>Journal of Electron Microscopy</i> , 2010, 59, S7-S13.	0.9	98
21	Chemical States of Overcharged LiCoO_2 Particle Surfaces and Interiors Observed Using Electron Energy-Loss Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15823-15830.	1.5	91
22	Conversion of an ultra-wide bandgap amorphous oxide insulator to a semiconductor. <i>NPG Asia Materials</i> , 2017, 9, e359-e359.	3.8	89
23	Exciton Mapping at Subwavelength Scales in Two-Dimensional Materials. <i>Physical Review Letters</i> , 2015, 114, 107601.	2.9	79
24	Advantages of a monochromator for bandgap measurements using electron energy-loss spectroscopy. <i>Micron</i> , 2005, 36, 185-189.	1.1	77
25	Chemical shift mapping of Si L and K edges using spatially resolved EELS and energy-filtering TEM. <i>Journal of Electron Microscopy</i> , 1997, 46, 369-374.	0.9	74
26	Correction of higher order geometrical aberration by triple 3-fold astigmatism field. <i>Journal of Electron Microscopy</i> , 2009, 58, 341-347.	0.9	70
27	Atomic number dependence of Z contrast in scanning transmission electron microscopy. <i>Scientific Reports</i> , 2018, 8, 12325.	1.6	69
28	Extended Investigations on Luminescent $\text{Cs}_2[\text{Mo}_6\text{Br}_{14}]\text{@SiO}_2$ Nanoparticles: Physico-Structural Characterizations and Toxicity Studies. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20154-20163.	1.5	68
29	Undoped Layered Perovskite Oxynitride $\text{Li}_2\text{LaTa}_2\text{O}_6\text{N}$ for Photocatalytic CO_2 Reduction with Visible Light. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8154-8158.	7.2	66
30	Direct observation and dynamics of spontaneous skyrmion-like magnetic domains in a ferromagnet. <i>Nature Nanotechnology</i> , 2013, 8, 325-328.	15.6	64
31	Structural characterization and iron detection at $\frac{1}{3}$ grain boundaries in multicrystalline silicon. <i>Journal of Applied Physics</i> , 2009, 105, 113502.	1.1	53
32	Atomic structure of titania nanosheet with vacancies. <i>Scientific Reports</i> , 2013, 3, 2801.	1.6	53
33	Compositional microstructures of CoCr-alloy perpendicular magnetic recording media. <i>IEEE Transactions on Magnetics</i> , 1996, 32, 3807-3809.	1.2	50
34	Electron energy loss near-edge structures of cubic Si_3N_4 . <i>Applied Physics Letters</i> , 2001, 78, 2134-2136.	1.5	49
35	Local crystal structure analysis with 10-pm accuracy using scanning transmission electron microscopy. <i>Journal of Electron Microscopy</i> , 2009, 58, 131-136.	0.9	49
36	Anomalous Eu layer doping in Eu, Si co-doped aluminium nitride based phosphor and its direct observation. <i>Journal of Materials Chemistry</i> , 2010, 20, 9948.	6.7	48

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37	Synthesis and Characterization of $A_{x-4}Re_6Q_8L_6$ @SiO ₂ Red-Emitting Silica Nanoparticles Based on Re ₆ Metal Atom Clusters (A = Cs or K, Q = S or Se, and L = OH or Tj) <i>ETQq1</i> 1 0.784314 16 48 BT /Over	1.6	48
38	Thermally activated helicity reversals of skyrmions. <i>Physical Review B</i> , 2016, 93, .	1.1	47
39	Charge/Orbital Ordering Structure of $Pr_{1-x}Ca_xMnO_3$ (x=3/8) Examined by Low-Temperature Transmission Electron Microscopy. <i>Physical Review Letters</i> , 2002, 88, 097201.	2.9	46
40	Crystal symmetry of $BiMnO_3$ Electron diffraction study. <i>Physical Review B</i> , 2008, 77, .	1.1	46
41	Higher-order aberration corrector for an image-forming system in a transmission electron microscope. <i>Ultramicroscopy</i> , 2010, 110, 958-961.	0.8	45
42	Fabrication of silicon nitride nanoceramics Powder preparation and sintering: A review. <i>Science and Technology of Advanced Materials</i> , 2007, 8, 635-643.	2.8	43
43	High-quality epitaxial NbN/AlN/NbN tunnel junctions with a wide range of current density. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	43
44	Unique defect structure and advantageous vortex pinning properties in superconducting $CaKFe_4As_4$. <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	43
45	Phase Transformation of Amorphous Boron Nitride under High Pressure. <i>Chemistry of Materials</i> , 2003, 15, 2744-2751.	3.2	41
46	Investigations on the structural disordering of neutron-irradiated highly oriented pyrolytic graphite by X-ray diffraction and electron microscopy. <i>Journal of Applied Crystallography</i> , 2005, 38, 361-367.	1.9	41
47	Crystallographic superstructure of Ti-doped hexagonal $YMnO_3$. <i>Physical Review B</i> , 2005, 71, .	1.1	41
48	Software techniques for EELS to realize about 0.3 eV energy resolution using 300 kV FEG-TEM. <i>Journal of Microscopy</i> , 2002, 208, 224-228.	0.8	40
49	Heterostructuring Mesoporous 2D Iridium Nanosheets with Amorphous Nickel Boron Oxide Layers to Improve Electrolytic Water Splitting. <i>Small Methods</i> , 2021, 5, e2100679.	4.6	40
50	Strong pinning effect and magnetic nanodomain formation by coupling between magnetic and crystallographic domains in the ordered double perovskite Ba_2FeMoO_6 . <i>Physical Review B</i> , 2007, 75, .	1.1	39
51	Cubic $Si_6Al_zN_8$ (z=1.8 and 2.8) spinels formed by shock compression. <i>Chemical Physics Letters</i> , 2001, 344, 395-399.	1.2	38
52	Electron spectroscopic imaging analysis of compositional inhomogeneity in CoCrTa longitudinal thin film media. <i>IEEE Transactions on Magnetics</i> , 1995, 31, 2836-2838.	1.2	36
53	Phase transformation of germanium nitride (Ge_3N_4) under shock wave compression. <i>Journal of Applied Physics</i> , 2001, 90, 4403-4406.	1.1	36
54	Ferromagnetic Domain Structures and Nanoclusters in $Nd_{1/2}Sr_{1/2}MnO_3$. <i>Physical Review Letters</i> , 2002, 89, 207203.	2.9	36

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55	SrAuSi ₃ : A Noncentrosymmetric Superconductor. Chemistry of Materials, 2014, 26, 2155-2165.	3.2	36
56	Nitrogen/fluorine-codoped rutile titania as a stable oxygen-evolution photocatalyst for solar-driven Z-scheme water splitting. Sustainable Energy and Fuels, 2018, 2, 2025-2035.	2.5	36
57	The study of Al-L23 ELNES with resolution-enhancement software and first-principles calculation. Journal of Electron Microscopy, 2003, 52, 299-303.	0.9	35
58	Practical aspects of monochromators developed for transmission electron microscopy. Microscopy (Oxford, England), 2014, 63, 337-344.	0.7	35
59	Tunable Néel Bloch Magnetic Twists in Fe ₃ GeTe ₂ with van der Waals Structure. Advanced Functional Materials, 2021, 31, 2103583.	7.8	35
60	Homogeneous Electron Doping into Nonstoichiometric Strontium Titanate Improves Its Photocatalytic Activity for Hydrogen and Oxygen Evolution. ACS Catalysis, 2018, 8, 7190-7200.	5.5	34
61	Two-Dimensional Perovskite Oxynitride K ₂ LaTa ₂ O ₆ N with an H ⁺ /K ⁺ Exchangeability in Aqueous Solution Forming a Stable Photocatalyst for Visible-Light H ₂ Evolution. Angewandte Chemie - International Edition, 2020, 59, 9736-9743.	7.2	33
62	High-Pressure Synthesis and Properties of Solid Solutions between BiMnO ₃ and BiScO ₃ . Chemistry of Materials, 2007, 19, 1679-1689.	3.2	32
63	Spatially resolved diffractometry with atomic-column resolution. Ultramicroscopy, 2011, 111, 1111-1116.	0.8	32
64	Observation of Compositional Separation in CoCrTa Thin Film Using Transmission Electron Microscope with Imaging Filter. Japanese Journal of Applied Physics, 1995, 34, L352-L354.	0.8	31
65	Low-temperature crystal and magnetic structures of the chain-ladder composite material Sr _{0.4} Ca _{13.6} Cu _{24+y} O _{41+z} : Hole redistribution and antiferromagnetic order. Physical Review B, 2000, 62, 11667-11676.	1.1	31
66	Lorentz transmission electron microscopy on nanometric magnetic bubbles and skyrmions in bilayered manganites La _{1.2} Sr _{1.8} (Mn _{1-y} Ru _y) ₂ O ₇ with controlled magnetic anisotropy. Applied Physics Letters, 2015, 107, .	1.5	30
67	High-Mobility p-Type and n-Type Copper Nitride Semiconductors by Direct Nitrating Synthesis and In Silico Doping Design. Advanced Materials, 2018, 30, e1801968.	11.1	30
68	Transversely modulated crystal structure of charge-orbital ordered manganites Nd _{1-x} Sr _{1+x} MnO ₄ (x=2/3, 3/4). Physical Review B, 2002, 65, .	1.1	28
69	A new high-pressure phase of LiAlO ₂ . Journal of Solid State Chemistry, 2004, 177, 1939-1943.	1.4	28
70	Electron microscopy studies of the intermediate layers at the SiO ₂ /GaN interface. Japanese Journal of Applied Physics, 2017, 56, 110312.	0.8	28
71	Photoluminescence properties of crystallized strontium aluminate thin films prepared by ion-beam evaporation. Thin Solid Films, 2002, 407, 136-138.	0.8	27
72	Sp ² bonding distributions in nanocrystalline diamond particles by electron energy loss spectroscopy. Journal of Applied Physics, 2003, 93, 3120-3122.	1.1	27

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73	Observation of Magnetic Ripple and Nanowidth Domains in a Layered Ferromagnet. <i>Physical Review Letters</i> , 2005, 95, 227204.	2.9	26
74	Decisive factors for realizing atomic-column resolution using STEM and EELS. <i>Micron</i> , 2008, 39, 257-262.	1.1	26
75	Real-Space Observation of Topological Defects in Extended Skyrmion-Strings. <i>Nano Letters</i> , 2020, 20, 7313-7320.	4.5	26
76	Measurement of Strain in Locally Oxidized Silicon using Convergent-Beam Electron Diffraction. <i>Japanese Journal of Applied Physics</i> , 1993, 32, L211-L214.	0.8	25
77	Synthesis and Atomic Characterization of a Ti_2O_3 Nanosheet. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1820-1823.	2.1	25
78	Atomically resolved structure of ligand-protected Au_9 clusters on TiO_2 nanosheets using aberration-corrected STEM. <i>Journal of Chemical Physics</i> , 2016, 144, 114703.	1.2	25
79	Analyses of composition and chemical shift of silicon oxynitride film using energy-filtering transmission electron microscope based spatially resolved electron energy loss spectroscopy. <i>Micron</i> , 1999, 30, 121-127.	1.1	24
80	0.23eV energy resolution obtained using a cold field-emission gun and a streak imaging technique. <i>Micron</i> , 2005, 36, 465-469.	1.1	24
81	Formation of nanoscale magnetic bubbles in ferromagnetic insulating manganite $\text{La}_{7/8}\text{Sr}_{1/8}\text{MnO}_3$. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	24
82	Quantitative annular dark-field imaging of single-layer graphene: atomic-resolution image contrast. <i>Microscopy (Oxford, England)</i> , 2015, 64, 409-418.	0.7	23
83	Synthesis of a Layered Niobium Oxynitride, $\text{Rb}_2\text{NdNb}_2\text{O}_6\text{NH}_2\text{O}$, Showing Visible-Light Photocatalytic Activity for H_2 Evolution. <i>Inorganic Chemistry</i> , 2019, 58, 6161-6166.	1.9	23
84	Effect of specimen misalignment on local structure analysis using annular dark-field imaging. <i>Journal of Electron Microscopy</i> , 2012, 61, 207-215.	0.9	22
85	Understanding Li-K edge structure and interband transitions in Li_xCoO_2 by electron energy-loss spectroscopy. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	22
86	Light-stimulated carrier dynamics of $\text{CuInS}_2/\text{CdS}$ heterotetrapod nanocrystals. <i>Nanoscale</i> , 2016, 8, 9517-9520.	2.8	22
87	Reversible Switching of the Magnetic Orientation of Titanate Nanosheets by Photochemical Reduction and Autoxidation. <i>Journal of the American Chemical Society</i> , 2018, 140, 16396-16401.	6.6	22
88	Nitrogen Distribution and Chemical Bonding State Analyses in Oxynitride Film by Spatially Resolved Electron Energy Loss Spectroscopy (EELS). <i>Japanese Journal of Applied Physics</i> , 1998, 37, L694-L696.	0.8	21
89	Variation of charge/orbital ordering in layered manganite $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_4$ investigated by transmission electron microscopy. <i>Physical Review B</i> , 2007, 75, .	1.1	21
90	Enhancement in ordering of $\text{Fe}_{50}\text{Pt}_{50}$ film caused by Cr and Cu additives. <i>Journal of Applied Physics</i> , 2009, 106, 033907.	1.1	21

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91	Removing the effects of elastic and thermal scattering from electron energy-loss spectroscopic data. Applied Physics Letters, 2012, 101, .	1.5	21
92	Detecting the direction of oxygen bonding in SrTiO ₃ . Physical Review B, 2013, 88, .	1.1	21
93	Comparative Analysis of Defects in Mg-Implanted and Mg-Doped GaN Layers on Freestanding GaN Substrates. Nanoscale Research Letters, 2018, 13, 403.	3.1	21
94	New ferromagnets of Sr ₈ ARE ₃ Cu ₄ O ₂₄ (A=Sr, Ca) with an ordered perovskite structure. Journal of Solid State Chemistry, 2003, 175, 366-371.	1.4	20
95	Development of dedicated STEM with high stability. Journal of Electron Microscopy, 2007, 56, 17-20.	0.9	20
96	Visualization of hybridization states with atomic resolution using electron energy loss spectroscopy mapping. Applied Physics Letters, 2012, 100, .	1.5	20
97	A Rhombic Dodecahedral Honeycomb Structure with Cation Vacancy Ordering in a Ca_2O_3 Crystal. Crystal Growth and Design, 2013, 13, 3577-3581.	1.4	20
98	Quantitative annular dark-field imaging of single-layer graphene. Microscopy (Oxford, England), 2015, 64, 143-150.	0.7	20
99	AgFeOF ₂ : A Fluorine-Rich Perovskite Oxyfluoride. Inorganic Chemistry, 2018, 57, 6686-6691.	1.9	20
100	Synthesis of Three-Layer Perovskite Oxynitride K ₂ Ca ₂ Ta ₃ O ₉ N ₂ H ₂ O and Photocatalytic Activity for H ₂ Evolution under Visible Light. Inorganic Chemistry, 2020, 59, 11122-11128.	1.9	20
101	Strain-induced creation and switching of anion vacancy layers in perovskite oxynitrides. Nature Communications, 2020, 11, 5923.	5.8	20
102	Nanoparticles of Amorphous Ruthenium Sulfide Easily Obtainable from a TiO ₂ -Supported Hexanuclear Cluster Complex [Ru ₆ C(CO) ₁₆] ²⁺ : A Highly Active Catalyst for the Reduction of SO ₂ with H ₂ . Chemistry - A European Journal, 2002, 8, 3260.	1.7	19
103	TEM study of the influence of antisite defects on magnetic domain structures in double perovskite Ba ₂ FeMoO ₆ . Journal of Electron Microscopy, 2005, 54, 61-65.	0.9	19
104	Direct observation of the spin structures of vortex domain walls in ferromagnetic nanowires. Physical Review B, 2008, 78, .	1.1	19
105	Assessment of lower-voltage TEM performance using 3D Fourier transform of through-focus series. Ultramicroscopy, 2012, 121, 31-37.	0.8	19
106	Possible presence of a charge-orbital density wave in layered manganites Nd _{1-x} Ca _{1+x} MnO ₄ . Physical Review B, 2003, 68, .	1.1	18
107	Responsive Four-Coordinate Iron(II) Nodes in FePd(CN) ₄ . Angewandte Chemie - International Edition, 2020, 59, 19254-19259.	7.2	18
108	Exfoliated Ferrierite-Related Unilamellar Nanosheets in Solution and Their Use for Preparation of Mixed Zeolite Hierarchical Structures. Journal of the American Chemical Society, 2021, 143, 11052-11062.	6.6	18

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109	Experimental investigation of phase contrast formed by inelastically scattered electrons. Ultramicroscopy, 2003, 96, 335-342.	0.8	17
110	Undoped Layered Perovskite Oxynitride $\text{Li}_2\text{LaTa}_2\text{O}_6\text{N}$ for Photocatalytic CO_2 Reduction with Visible Light. Angewandte Chemie, 2018, 130, 8286-8290.	1.6	17
111	High-endurance micro-engineered LaB ₆ nanowire electron source for high-resolution electron microscopy. Nature Nanotechnology, 2022, 17, 21-26.	15.6	17
112	High Spatial Resolution Elemental Mapping of Multilayers Using a Field Emission Transmission Electron Microscope Equipped with an Imaging Filter. Japanese Journal of Applied Physics, 1994, 33, L1642-L1644.	0.8	16
113	$\text{Ca}_2\text{FeMnO}_6$: 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.	2.0	16
114	Synthesis of single-walled carbon nanotubes on graphene layers. Chemical Communications, 2015, 51, 8974-8977.	2.2	16
115	Low-energy ion scattering spectroscopy and reflection high-energy electron diffraction of native oxides on GaN(0001). Japanese Journal of Applied Physics, 2017, 56, 128004.	0.8	16
116	Visualizing nanoscale heat pathways. Nano Energy, 2018, 52, 323-328.	8.2	16
117	Electron microscope studies of nano-domain structures in Ru-based magneto-superconductors: $\text{RuSr}_2\text{Gd}_{1.5}\text{Ce}_{0.5}\text{Cu}_2\text{O}_{10}$ (Ru-1222) and $\text{RuSr}_2\text{GdCu}_2\text{O}_8$ (Ru-1212). Ultramicroscopy, 2004, 98, 283-295.	0.8	15
118	Quantitative evaluation of temporal partial coherence using 3D Fourier transforms of through-focus TEM images. Ultramicroscopy, 2013, 134, 86-93.	0.8	15
119	Strongest σ -metal orbital coupling in a porphyrin/gold cluster system. Chemical Science, 2014, 5, 2007-2010.	3.7	15
120	Non-negative matrix factorization for mining big data obtained using four-dimensional scanning transmission electron microscopy. Ultramicroscopy, 2021, 221, 113168.	0.8	15
121	Production of bulk dilute ferromagnetic semiconductor by mechanical milling. Journal of Magnetism and Magnetic Materials, 2008, 320, e674-e677.	1.0	14
122	Evaluation of probe size in STEM imaging at 30 and 60kV. Micron, 2012, 43, 551-556.	1.1	14
123	Atomic resolution chemical bond analysis of oxygen in La_2CuO_4 . Journal of Applied Physics, 2013, 114, .	1.1	14
124	Electron density distribution and disordered crystal structure of 15R-SiAlON, $\text{SiAl}_4\text{O}_2\text{N}_4$. Journal of Solid State Chemistry, 2014, 211, 124-129.	1.4	14
125	Enhanced water splitting through two-step photoexcitation by sunlight using tantalum/nitrogen-codoped rutile titania as a water oxidation photocatalyst. Sustainable Energy and Fuels, 2019, 3, 2337-2346.	2.5	14
126	High-pressure synthesis of O212-, 1201- and 1212-type copper oxides. Physica C: Superconductivity and Its Applications, 2001, 357-360, 318-323.	0.6	13

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127	In-plane Magnetic Field-Driven Creation and Annihilation of Magnetic Skyrmion Strings in Nanostructures. <i>Advanced Functional Materials</i> , 2021, 31, 2008521.	7.8	13
128	Compositional separation in CoCrTa perpendicular magnetic thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 159, 401-405.	1.0	12
129	Investigation on photo-induced charge separation in CdS/CdTe nanopencils. <i>Chemical Science</i> , 2014, 5, 3831-3835.	3.7	12
130	Atomic-Scale Electrical Field Mapping of Hexagonal Boron Nitride Defects. <i>ACS Nano</i> , 2021, 15, 5316-5321.	7.3	12
131	Modulated Crystal Structure and Spin/Hole Arrangement in the Chain Compound C_xCuO_2 ($x=0.8240$). <i>Journal of the Physical Society of Japan</i> , 2002, 71, 782-789.	0.7	11
132	Improving Energy Resolution of EELS Spectra by Deconvolution using Maximum-Entropy and Richardson-Lucy Algorithms. <i>Microscopy and Microanalysis</i> , 2003, 9, 832-833.	0.2	11
133	Lattice modulation induced by magnetic order in the magnetoelectric helimagnet $Ba_{0.5}Sr_{1.5}Zn_2Fe_{12}O_{22}$. <i>Physical Review B</i> , 2011, 83, .	1.1	11
134	Experimental observation of multiple- Q states for the magnetic skyrmion lattice and skyrmion excitations under a zero magnetic field. <i>Physical Review B</i> , 2015, 92, .	1.1	11
135	Real space observation of skyrmion polycrystallization and its domain boundary behavior in $FeGe_{1-x}Si_x$. <i>Applied Physics Express</i> , 2015, 8, 033001.	1.1	11
136	Preparation of Multifunctional Metal Oxynitride 2D Crystals and Oriented Transparent Free-Standing Oxynitride Films. <i>Chemistry of Materials</i> , 2021, 33, 6068-6077.	3.2	11
137	Observations by HVEM of atomic clusters embedded in MgO crystals. <i>Ultramicroscopy</i> , 1991, 39, 395-402.	0.8	10
138	Crystal structure of the parent misfit-layered cobalt oxide $[Sr_{2O_2}]_qCoO_2$. <i>Journal of Solid State Chemistry</i> , 2006, 179, 1898-1903.	1.4	10
139	Decisive factors for realizing atomic-column resolution using STEM and EELS. <i>Micron</i> , 2008, 39, 653-657.	1.1	10
140	Single adatom dynamics at monatomic steps of free-standing few-layer reduced graphene. <i>Scientific Reports</i> , 2014, 4, 6037.	1.6	10
141	High-pressure annealing driven nanocrystal formation in $Zr_{50}Cu_{40}Al_{10}$ metallic glass and strength increase. <i>Communications Materials</i> , 2020, 1, .	2.9	10
142	Quantitative Elemental Mapping of Stainless Steel Using an Imaging Filter. <i>Journal of Electron Microscopy</i> , 1996, 45, 143-147.	0.9	9
143	EELS analysis of electrochemically deintercalated $Li_{1-x}Mn_2O_4$ and substituted spinels $LiMn_{1.6}M_{0.4}O_4$ ($M = Co, Cr, Ni$). <i>Journal of Power Sources</i> , 2001, 97-98, 461-464.	4.0	9
144	Observation of spin reorientation in layered manganites $La_{1.2}Sr_{1.8}(Mn_{1-y}Ruy)_{2O_7}$ ($0 \leq y \leq 0.2$) by Lorentz transmission electron microscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 302, 391-396.	1.0	9

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145	Study on anomalous magnetoresistance in nano-Fe ₃ O ₄ /Ag granular system. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 138, 69-73.	1.7	9
146	Single Crystallization of Olivine Lithium Phosphate Nanowires using Oriented Attachments. Journal of Physical Chemistry C, 2014, 118, 7678-7682.	1.5	9
147	Identifying lithium <i>K</i> edge anisotropy in LiCoO_2 . Physical Review B, 2018, 98, .	1.1	9
148	Raw-to-repository characterization data conversion for repeatable, replicable, and reproducible measurements. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	0.9	9
149	Pinning effect of the antiphase and grain boundaries on magnetic domains in double perovskite A ₂ FeMoO ₆ . Journal of Magnetism and Magnetic Materials, 2007, 310, 1572-1574.	1.0	8
150	Possible origins of the magnetoresistance gain in colossal magnetoresistive oxide La _{0.69} Ca _{0.31} MnO ₃ : Structure fluctuation and pinning effect on magnetic domain walls. Applied Physics Letters, 2009, 95, 092504. charge modulations in the ferromagnetic insulating state of lightly doped La	1.5	8
151	Microscopic observation of dye molecules for solar cells on a titania surface. Scientific Reports, 2016, 6, 24616.	1.6	8
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