

# Akihiko Hirata

## List of Publications by Year in descending order

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166  
papers

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Unveiling a Chemisorbed Crystallographically Heterogeneous Graphene/ $L_{10}$ -FePd Interface with a Robust and Perpendicular Orbital Moment. ACS Nano, 2022, 16, 4139-4151.	7.3	10
2	Local structure analysis of amorphous materials by angstrom-beam electron diffraction. Microscopy (Oxford, England), 2021, 70, 171-177.	0.7	11
3	The Characterization of the Oxide Film Formed on Brightly Annealed Al-Added $18\frac{1}{4}\%$ Cr Steel. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2021, , .	0.2	0
4	Vapor phase dealloying kinetics of MnZn alloys. Acta Materialia, 2021, 212, 116916.	3.8	19
5	Crystallization behaviors in superionic conductor Na <sub>3</sub> PS <sub>4</sub> . Journal of Power Sources, 2021, 511, 230444.	4.0	9
6	Topological trends in ionic transport through metal-oxide composites. Applied Physics Letters, 2021, 118, 054102.	1.5	4
7	Relationship between diffraction peak, network topology, and amorphous-forming ability in silicon and silica. Scientific Reports, 2021, 11, 22180.	1.6	11
8	Correlation between the Charge-Transport Properties and the 3D-Phase Connectivities in Patterned Pt/CeO <sub>2</sub> Nanostructured Composites: Implications for Solid-Oxide Fuel Cells. ACS Applied Nano Materials, 2021, 4, 13602-13611.	2.4	1
9	Improving glass forming ability of off-eutectic metallic glass formers by manipulating primary crystallization reactions. Acta Materialia, 2020, 200, 710-719.	3.8	16
10	Frank-Kasper Z16 local structures in Cu-Zr metallic glasses. Physical Review B, 2020, 102, .	1.1	2
11	Structural changes during glass formation extracted by computational homology with machine learning. Communications Materials, 2020, 1, .	2.9	22
12	Dealloying Kinetics of AgAu Nanoparticles by <i>In Situ</i> Liquid-Cell Scanning Transmission Electron Microscopy. Nano Letters, 2020, 20, 1944-1951.	4.5	47
13	Structure and properties of densified silica glass: characterizing the order within disorder. NPG Asia Materials, 2020, 12, .	3.8	57
14	Understanding Diffraction from Disordered Materials and the Extraction of Topology Hidden in the Pairwise Correlations by Persistent Homology. Nihon Kessho Gakkaishi, 2020, 62, 43-50.	0.0	0
15	Boson Peak Investigation of Unusually Disproportionated Amorphous Silicon Monoxide via Terahertz Spectroscopy. , 2020, , .		0
16	Effect of Ca Doping on Modulated Structures in Multiferroic Bi <sub>1-x</sub> Ca <sub>x</sub> FeO <sub>3</sub> . Journal of the Physical Society of Japan, 2019, 88, 054601.	0.7	1
17	Operando Observations of SEI Film Evolution by Mass-Sensitive Scanning Transmission Electron Microscopy. Advanced Energy Materials, 2019, 9, 1902675.	10.2	64
18	High-temperature bulk metallic glasses developed by combinatorial methods. Nature, 2019, 569, 99-103.	13.7	185

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19	Temperature-dependent compression behavior of an Al <sub>0.5</sub> CoCrCuFeNi high-entropy alloy. <i>Materialia</i> , 2019, 5, 100243.	1.3	16
20	Effects of mixing enthalpy and cooling rate on phase formation of Al <sub>x</sub> CoCrCuFeNi high-entropy alloys. <i>Materialia</i> , 2019, 6, 100292.	1.3	40
21	Fast coalescence of metallic glass nanoparticles. <i>Nature Communications</i> , 2019, 10, 5249.	5.8	37
22	Time-resolved atomic-scale observations of deformation and fracture of nanoporous gold under tension. <i>Acta Materialia</i> , 2019, 165, 99-108.	3.8	39
23	Free-standing nanoporous gold for direct plasmon enhanced electro-oxidation of alcohol molecules. <i>Nano Energy</i> , 2019, 56, 286-293.	8.2	48
24	Lithium intercalation into bilayer graphene. <i>Nature Communications</i> , 2019, 10, 275.	5.8	136
25	Operando characterization of cathodic reactions in a liquid-state lithium-oxygen micro-battery by scanning transmission electron microscopy. <i>Scientific Reports</i> , 2018, 8, 3134.	1.6	25
26	Three-dimensional bicontinuous nanoporous materials by vapor phase dealloying. <i>Nature Communications</i> , 2018, 9, 276.	5.8	123
27	Synthesizing 1Tâ€“1H Two-Phase Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> Monolayers by Chemical Vapor Deposition. <i>ACS Nano</i> , 2018, 12, 1571-1579.	7.3	62
28	Bilayered nanoporous graphene/molybdenum oxide for high rate lithium ion batteries. <i>Nano Energy</i> , 2018, 45, 273-279.	8.2	54
29	Intercalation pseudocapacitance of amorphous titanium dioxide@nanoporous graphene for high-rate and large-capacity energy storage. <i>Nano Energy</i> , 2018, 49, 354-362.	8.2	74
30	Operando observations of RuO <sub>2</sub> catalyzed Li <sub>2</sub> O <sub>2</sub> formation and decomposition in a Li-O <sub>2</sub> micro-battery. <i>Nano Energy</i> , 2018, 47, 427-433.	8.2	47
31	Transmission electron microscopy characterization of dislocation structure in a face-centered cubic high-entropy alloy Al <sub>0.1</sub> CoCrFeNi. <i>Acta Materialia</i> , 2018, 144, 107-115.	3.8	187
32	2pA_SS3-7Direct observation and modeling of local atomic structures of amorphous materials. <i>Microscopy (Oxford, England)</i> , 2018, 67, i22-i22.	0.7	0
33	Microstructural origins for a strong and ductile Al <sub>0.1</sub> CoCrFeNi high-entropy alloy with ultrafine grains. <i>Materialia</i> , 2018, 4, 395-405.	1.3	43
34	Graphene-based quasi-solid-state lithiumâ€“oxygen batteries with high energy efficiency and a long cycling lifetime. <i>NPG Asia Materials</i> , 2018, 10, 1037-1045.	3.8	35
35	Crystalline Approximant of Amorphous Fe-Si-B Structures. <i>Materials Transactions</i> , 2018, 59, 1047-1050.	0.4	5
36	Amorphous Structure Analysis of Si Anode for Li Ion Battery. <i>Microscopy and Microanalysis</i> , 2018, 24, 1526-1527.	0.2	0

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37	Spatial heterogeneity as the structure feature for structure–property relationship of metallic glasses. <i>Nature Communications</i> , 2018, 9, 3965.	5.8	115
38	Distortion of Local Atomic Structures in Amorphous Ge-Sb-Te Phase Change Materials. <i>Physical Review Letters</i> , 2018, 120, 205502.	2.9	35
39	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie</i> , 2018, 130, 13486-13491.	1.6	10
40	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13302-13307.	7.2	64
41	Deformation behaviour of 18R long-period stacking ordered structure in an Mg-Zn-Y alloy under shock loading. <i>Intermetallics</i> , 2018, 102, 21-25.	1.8	3
42	Structure of crystallized particles in sputter-deposited amorphous germanium films. <i>Journal of Applied Crystallography</i> , 2018, 51, 1467-1473.	1.9	7
43	Noble–Metal–Free Metallic Glass as a Highly Active and Stable Bifunctional Electrocatalyst for Water Splitting. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601086.	1.9	60
44	Ultrastrong steel via minimal lattice misfit and high-density nanoprecipitation. <i>Nature</i> , 2017, 544, 460-464.	13.7	843
45	Tunable Nanoporous Metallic Glasses Fabricated by Selective Phase Dissolution and Passivation for Ultrafast Hydrogen Uptake. <i>Chemistry of Materials</i> , 2017, 29, 4478-4483.	3.2	38
46	Full Performance Nanoporous Graphene Based $\text{LiO}_2$ Batteries through Solution Phase Oxygen Reduction and Redox–Additive Mediated $\text{Li}_2\text{O}_2$ Oxidation. <i>Advanced Energy Materials</i> , 2017, 7, 1601933.	10.2	65
47	Structure and mechanical properties of boron-rich boron carbides. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4514-4523.	2.8	89
48	Structure and viscosity of phase-separated $\text{BaO}–\text{SiO}_2$ glasses. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1982-1993.	1.9	20
49	Engineering the internal surfaces of three-dimensional nanoporous catalysts by surfactant-modified dealloying. <i>Nature Communications</i> , 2017, 8, 1066.	5.8	69
50	Chemical Selectivity at Grain Boundary Dislocations in Monolayer $\text{Mo}_1\text{W}_1\text{S}_2$ Transition Metal Dichalcogenides. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 29438-29444.	4.0	10
51	Formation and Characterization of Hydrogen Boride Sheets Derived from $\text{MgB}_2$ by Cation Exchange. <i>Journal of the American Chemical Society</i> , 2017, 139, 13761-13769.	6.6	157
52	Direct Observations of the Formation and Redox–Mediator–Assisted Decomposition of $\text{Li}_2\text{O}_2$ in a Liquid–Cell $\text{LiO}_2$ Microbattery by Scanning Transmission Electron Microscopy. <i>Advanced Materials</i> , 2017, 29, 1702752.	11.1	41
53	Tuning Surface Structure of 3D Nanoporous Gold by Surfactant–Free Electrochemical Potential Cycling. <i>Advanced Materials</i> , 2017, 29, 1703601.	11.1	54
54	Correlation between Local Structure Order and Spatial Heterogeneity in a Metallic Glass. <i>Physical Review Letters</i> , 2017, 119, 215501.	2.9	116

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55	Transparent magnetic semiconductor with embedded metallic glass nano-granules. <i>Materials and Design</i> , 2017, 132, 208-214.	3.3	16
56	Effect of Chemical Doping on Cathodic Performance of Bicontinuous Nanoporous Graphene for $\text{Li}^{\oplus}\text{O}^{\ominus 2}$ Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1501870.	10.2	132
57	Graphene@Nanoporous Nickel Cathode for $\text{Li}^{\oplus}\text{O}^{\ominus 2}$ Batteries. <i>ChemNanoMat</i> , 2016, 2, 176-181.	1.5	12
58	3D Nanoporous Metal Phosphides toward High Efficiency Electrochemical Hydrogen Production. <i>Advanced Materials</i> , 2016, 28, 2951-2955.	11.1	163
59	Intrinsic correlation between $\hat{\Gamma}^2$ -relaxation and spatial heterogeneity in a metallic glass. <i>Nature Communications</i> , 2016, 7, 11516.	5.8	197
60	Metallic Glasses. <i>SpringerBriefs in the Mathematics of Materials</i> , 2016, , 9-14.	0.3	0
61	Structural Analysis of Metallic Glasses with Computational Homology. <i>SpringerBriefs in the Mathematics of Materials</i> , 2016, , .	0.3	7
62	Versatile nanoporous bimetallic phosphides towards electrochemical water splitting. <i>Energy and Environmental Science</i> , 2016, 9, 2257-2261.	15.6	535
63	Earth Abundant and Durable Nanoporous Catalyst for Exhaust Gas Conversion. <i>Advanced Functional Materials</i> , 2016, 26, 1609-1616.	7.8	18
64	An ultrahigh volumetric capacitance of squeezable three-dimensional bicontinuous nanoporous graphene. <i>Nanoscale</i> , 2016, 8, 18551-18557.	2.8	13
65	Initial Atomic Motion Immediately Following Femtosecond-Laser Excitation in Phase-Change Materials. <i>Physical Review Letters</i> , 2016, 117, 135501.	2.9	45
66	Chemical Vapor Deposition of Monolayer $\text{Mo}1^{\sim}x\text{W}x\text{S}2$ Crystals with Tunable Band Gaps. <i>Scientific Reports</i> , 2016, 6, 21536.	1.6	101
67	Hierarchical nanoporosity enhanced reversible capacity of bicontinuous nanoporous metal based $\text{Li-O}_2$ battery. <i>Scientific Reports</i> , 2016, 6, 33466.	1.6	52
68	Unveiling Three-Dimensional Stacking Sequences of 1T Phase $\text{MoS}_2$ Monolayers by Electron Diffraction. <i>ACS Nano</i> , 2016, 10, 10308-10316.	7.3	21
69	Atomic-scale disproportionation in amorphous silicon monoxide. <i>Nature Communications</i> , 2016, 7, 11591.	5.8	138
70	Structure Analysis of Amorphous Materials Using a STEM Electron Diffraction Method. <i>Materia Japan</i> , 2016, 55, 8-14.	0.1	1
71	Hierarchical structures of amorphous solids characterized by persistent homology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7035-7040.	3.3	221
72	Visualizing Under Coordinated Surface Atoms on 3D Nanoporous Gold Catalysts. <i>Advanced Materials</i> , 2016, 28, 1753-1759.	11.1	85

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73	Bicontinuous nanotubular graphene-polypyrrole hybrid for high performance flexible supercapacitors. <i>Nano Energy</i> , 2016, 19, 391-400.	8.2	137
74	Non-aqueous nanoporous gold based supercapacitors with high specific energy. <i>Scripta Materialia</i> , 2016, 116, 76-81.	2.6	22
75	B11-O-06Depth-Resolution Imaging of Crystalline Nano Clusters Using Aberration-Corrected TEM. <i>Microscopy (Oxford, England)</i> , 2015, 64, i13.1-i13.	0.7	0
76	On-Chip Micro-Pseudocapacitors for Ultrahigh Energy and Power Delivery. <i>Advanced Science</i> , 2015, 2, 1500067.	5.6	66
77	Nanoporous Metal Papers for Scalable Hierarchical Electrode. <i>Advanced Science</i> , 2015, 2, 1500086.	5.6	26
78	3D Nanoporous Nitrogen-Doped Graphene with Encapsulated RuO <sub>2</sub> Nanoparticles for Li-O <sub>2</sub> Batteries. <i>Advanced Materials</i> , 2015, 27, 6137-6143.	11.1	195
79	Nanoporous Graphene with Single-Atom Nickel Dopants: An Efficient and Stable Catalyst for Electrochemical Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14031-14035.	7.2	628
80	Extraordinary Supercapacitor Performance of a Multicomponent and Mixed-Valence Oxyhydroxide. <i>Angewandte Chemie</i> , 2015, 127, 8218-8222.	1.6	16
81	Extraordinary Supercapacitor Performance of a Multicomponent and Mixed-Valence Oxyhydroxide. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8100-8104.	7.2	50
82	Visualization of topological landscape in shear-flow dynamics of amorphous solids. <i>Europhysics Letters</i> , 2015, 110, 38002.	0.7	2
83	Sample size induced brittle-to-ductile transition of single-crystal aluminum nitride. <i>Acta Materialia</i> , 2015, 88, 252-259.	3.8	38
84	Nanoporous metal/oxide hybrid materials for rechargeable lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3620-3626.	5.2	45
85	Persistent homology and many-body atomic structure for medium-range order in the glass. <i>Nanotechnology</i> , 2015, 26, 304001.	1.3	73
86	Depth-resolution imaging of crystalline nanoclusters attached on and embedded in amorphous films using aberration-corrected TEM. <i>Ultramicroscopy</i> , 2015, 151, 224-231.	0.8	13
87	A nanoporous metal recuperated MnO <sub>2</sub> anode for lithium ion batteries. <i>Nanoscale</i> , 2015, 7, 15111-15116.	2.8	58
88	Nanoscale phase separation in a fcc-based CoCrCuFeNiAl <sub>0.5</sub> high-entropy alloy. <i>Acta Materialia</i> , 2015, 84, 145-152.	3.8	193
89	Direct Observation of High-Temperature Superconductivity in One-Unit-Cell FeSe Films. <i>Chinese Physics Letters</i> , 2014, 31, 017401.	1.3	222
90	Nanoporous Metal Enhanced Catalytic Activities of Amorphous Molybdenum Sulfide for High-Efficiency Hydrogen Production. <i>Advanced Materials</i> , 2014, 26, 3100-3104.	11.1	204

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91	Three-Dimensional Hierarchical Nanoporosity for Ultrahigh Power and Excellent Cyclability of Electrochemical Pseudocapacitors. <i>Advanced Energy Materials</i> , 2014, 4, 1301809.	10.2	27
92	Raman characterization of pseudocapacitive behavior of polypyrrole on nanoporous gold. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3523.	1.3	56
93	Monolayer MoS <sub>2</sub> Films Supported by 3D Nanoporous Metals for High-Efficiency Electrocatalytic Hydrogen Production. <i>Advanced Materials</i> , 2014, 26, 8023-8028.	11.1	299
94	Chemically exfoliated ReS <sub>2</sub> nanosheets. <i>Nanoscale</i> , 2014, 6, 12458-12462.	2.8	160
95	Asymmetric metal oxide pseudocapacitors advanced by three-dimensional nanoporous metal electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8448.	5.2	74
96	Grain rotation mediated by grain boundary dislocations in nanocrystalline platinum. <i>Nature Communications</i> , 2014, 5, 4402.	5.8	286
97	Self-Grown Oxy-Hydroxide@ Nanoporous Metal Electrode for High-Performance Supercapacitors. <i>Advanced Materials</i> , 2014, 26, 269-272.	11.1	152
98	Asymmetric twins in rhombohedral boron carbide. <i>Applied Physics Letters</i> , 2014, 104, 021907.	1.5	32
99	Atomic Observation of Catalysis-Induced Nanopore Coarsening of Nanoporous Gold. <i>Nano Letters</i> , 2014, 14, 1172-1177.	4.5	109
100	Fabrication of large-scale nanoporous nickel with a tunable pore size for energy storage. <i>Journal of Power Sources</i> , 2014, 247, 896-905.	4.0	140
101	Angstrom-beam electron diffraction of amorphous materials. <i>Journal of Non-Crystalline Solids</i> , 2014, 383, 52-58.	1.5	15
102	High-energy-density nonaqueous MnO <sub>2</sub> @nanoporous gold based supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9202.	5.2	84
103	Geometric Frustration of Icosahedron in Metallic Glasses. <i>Science</i> , 2013, 341, 376-379.	6.0	423
104	A Core-Shell Nanoporous Pt-Cu Catalyst with Tunable Composition and High Catalytic Activity. <i>Advanced Functional Materials</i> , 2013, 23, 4156-4162.	7.8	118
105	In situ atomic-scale observation of continuous and reversible lattice deformation beyond the elastic limit. <i>Nature Communications</i> , 2013, 4, 2413.	5.8	147
106	Synergistic alloying effect on microstructural evolution and mechanical properties of Cu precipitation-strengthened ferritic alloys. <i>Acta Materialia</i> , 2013, 61, 7726-7740.	3.8	85
107	Microstructure characterization of Cu-rich nanoprecipitates in a Fe-2.5 Cu-1.5 Mn-4.0 Ni-1.0 Al multicomponent ferritic alloy. <i>Acta Materialia</i> , 2013, 61, 2133-2147.	3.8	153
108	Nanoporous Gold Based Optical Sensor for Sub-ppt Detection of Mercury Ions. <i>ACS Nano</i> , 2013, 7, 4595-4600.	7.3	175

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109	Enhanced Supercapacitor Performance of MnO <sub>2</sub> by Atomic Doping. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1664-1667.	7.2	251
110	Electroplated Thick Manganese Oxide Films with Ultrahigh Capacitance. <i>Advanced Energy Materials</i> , 2013, 3, 857-863.	10.2	70
111	Geometrically Controlled Nanoporous PdAu Bimetallic Catalysts with Tunable Pd/Au Ratio for Direct Ethanol Fuel Cells. <i>ACS Catalysis</i> , 2013, 3, 1220-1230.	5.5	152
112	A nanoscale co-precipitation approach for property enhancement of Fe-base alloys. <i>Scientific Reports</i> , 2013, 3, 1327.	1.6	79
113	Fabrication of Nickel/Organic-Molecule/Nickel Nanoscale Junctions Utilizing Thin-Film Edges and Their Structural and Electrical Properties. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 065202.	0.8	1
114	Atomic origins of the high catalytic activity of nanoporous gold. <i>Nature Materials</i> , 2012, 11, 775-780.	13.3	803
115	Deposition of multicomponent metallic glass films by single-target magnetron sputtering. <i>Intermetallics</i> , 2012, 21, 105-114.	1.8	52
116	Characterization of oxide nanoprecipitates in an oxide dispersion strengthened 14YWT steel using aberration-corrected STEM. <i>Acta Materialia</i> , 2012, 60, 5686-5696.	3.8	65
117	Direct synthesis of fullerene-intercalated porous carbon nanofibers by chemical vapor deposition. <i>Carbon</i> , 2012, 50, 5162-5166.	5.4	12
118	Structural Origins of the Excellent Glass Forming Ability of $Pd_{40}Ni_{20}P_{20}$ . <i>Physical Review Letters</i> , 2012, 108, 175501.	2.9	115
119	Innovative processing of high-strength and low-cost ferritic steels strengthened by TiO nanoclusters. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 544, 59-69.	2.6	27
120	Electron diffraction study on chemical short-range order in covalent amorphous solids. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2012, 277, 70-76.	0.6	3
121	Wrinkled Nanoporous Gold Films with Ultrahigh Surface-Enhanced Raman Scattering Enhancement. <i>ACS Nano</i> , 2011, 5, 4407-4413.	7.3	249
122	Atomic structure of nanoclusters in oxide-dispersion-strengthened steels. <i>Nature Materials</i> , 2011, 10, 922-926.	13.3	306
123	Effect of Residual Silver on Surface-Enhanced Raman Scattering of Dealloyed Nanoporous Gold. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19583-19587.	1.5	66
124	Characterization of Nanoscale Mechanical Heterogeneity in a Metallic Glass by Dynamic Force Microscopy. <i>Physical Review Letters</i> , 2011, 106, 125504.	2.9	347
125	Local Structure Analysis of Metallic Glasses by Angstrom Beam Electron Diffraction Using Aberration Corrected STEM. <i>Nihon Kessho Gakkaishi</i> , 2011, 53, 326-331.	0.0	0
126	Direct observation of local atomic order in a metallic glass. <i>Nature Materials</i> , 2011, 10, 28-33.	13.3	483



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127	Nanoporous metal/oxide hybrid electrodes for electrochemical supercapacitors. Nature Nanotechnology, 2011, 6, 232-236.	15.6	1,914
128	Nanoporous PdNi Bimetallic Catalyst with Enhanced Electrocatalytic Performances for Electro-oxidation and Oxygen Reduction Reactions. Advanced Functional Materials, 2011, 21, 4364-4370.	7.8	251
129	Modulated Na <sub>2</sub> Ti <sub>4</sub> O <sub>9</sub> :Zr Nanobelt via Site-Specific Zr Doping. Applied Physics Express, 2011, 4, 085003.	1.1	3
130	Surface and Interface Structures and Magnetic Properties of Ni and Ni <sub>75</sub> Fe <sub>25</sub> Thin Films on Polyethylene Naphthalate Organic Substrates. Journal of the Vacuum Society of Japan, 2011, 54, 203-206.	0.3	0
131	Fabrication and Current-Voltage Characteristics of Ni Spin Quantum Cross Devices with P3HT:PCBM Organic Materials. Materials Research Society Symposia Proceedings, 2010, 1252, 8.	0.1	0
132	Structure Analyses of Fe-based Metallic Glasses by Electron Diffraction. Materials, 2010, 3, 5263-5273.	1.3	14
133	The fabrication of Ni quantum cross devices with a 17 nm junction and their current-voltage characteristics. Nanotechnology, 2010, 21, 015301.	1.3	4
134	Quasicrystal-like structure and its crystalline approximant in an Fe <sub>48</sub> Cr <sub>15</sub> Mo <sub>14</sub> C <sub>15</sub> B <sub>6</sub> Tm <sub>2</sub> bulk metallic glass. Journal of Alloys and Compounds, 2010, 504, S186-S189.	2.8	12
135	Nanoscale metastable state exhibiting pseudotenfold diffraction pattern in Fe-based bulk metallic glass. Physical Review B, 2009, 79, .	1.1	11
136	$\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{display}=\text{"inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Fe} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 23 \langle \text{mml:mtext} \rangle \text{quasicrystal-like structures without icosahedral atomic arrangement in an Fe-based metallic glass. Physical Review B, 2009, 80, .}$	1.1	27
137	Specific surface effect on transport properties of NiO/MgO heterostructured nanowires. Applied Physics Letters, 2009, 95, 133110.	1.5	23
138	Ni thin films vacuum-evaporated on polyethylene naphthalate substrates with and without the application of magnetic field. Applied Surface Science, 2009, 255, 3706-3712.	3.1	10
139	Local structure changes on annealing in an Fe-Si-B-P bulk metallic glass. Intermetallics, 2009, 17, 186-189.	1.8	24
140	Crystallization behaviours around the glass transition temperature in an amorphous Fe-Nb-B alloy. Intermetallics, 2009, 17, 796-801.	1.8	9
141	Local structural fluctuation in Pd-Ni-P bulk metallic glasses examined using nanobeam electron diffraction. Journal of Alloys and Compounds, 2009, 483, 64-69.	2.8	15
142	Role of the triclinic Al <sub>2</sub> Fe structure in the formation of the Al <sub>5</sub> Fe <sub>2</sub> -approximant. Philosophical Magazine Letters, 2008, 88, 491-500.	0.5	8
143	Nanocrystallization of complex Fe <sub>23</sub> B <sub>6</sub> -type structure in glassy Fe-Co-Si-Nb alloy. Intermetallics, 2008, 16, 491-497.	1.8	50
144	Direct observations of thermally induced structural changes in amorphous silicon carbide. Journal of Applied Physics, 2008, 104, .	1.1	39

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145	Crystallization process and glass stability of an $\text{Fe}_{48}\text{Ni}_{42}\text{P}_{10}$ bulk metallic glass. Physical Review B, 2008, 78, .	1.1	49
146	Change of Nanostructure in $(\text{Fe}_{0.5}\text{Co}_{0.5})_{72}\text{B}_{20}\text{Si}_8$ Metallic Glass on Annealing. Materials Science Forum, 2007, 539-543, 2077-2081.	0.8	5
147	Structural Analysis of Polycrystalline $\text{BiFeO}_3$ Films by Transmission Electron Microscopy. Materials Transactions, 2007, 48, 2370-2373.	0.4	5
148	Local Atomic Structure Analysis of Zr-Ni and Zr-Cu Metallic Glasses Using Electron Diffraction. Materials Transactions, 2007, 48, 1299-1303.	0.4	26
149	Local Structure Study of Metallic Glasses by Means of Advanced Electron Microscopy Techniques. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2007, 54, 747-753.	0.1	0
150	Direct imaging of local atomic ordering in a $\text{Pd-Ni-P}$ bulk metallic glass using Cs-corrected transmission electron microscopy. Ultramicroscopy, 2007, 107, 116-123.	0.8	34
151	Post-annealing recrystallization and damage recovery process in Fe ion implanted Si. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 340-343.	0.6	0
152	Compositional dependence of local atomic structures in amorphous $\text{Fe}_{100-x}\text{B}_x$ ( $x=14,17,20$ ) alloys studied by electron diffraction and high-resolution electron microscopy. Physical Review B, 2006, 74, .	1.1	63
153	Mechanism of nanocrystalline microstructure formation in amorphous $\text{Fe-Nb}$ Balloys. Physical Review B, 2006, 74, .	1.1	37
154	Local atomic structure of $\text{Pd-Ni-P}$ bulk metallic glass examined by high-resolution electron microscopy and electron diffraction. Intermetallics, 2006, 14, 903-907.	1.8	42
155	Topological characterization of metallic glasses by neutron diffraction and RMC modeling. Physica B: Condensed Matter, 2006, 385-386, 259-262.	1.3	14
156	Chemical short-range order in ion-beam-induced amorphous SiC: Irradiation temperature dependence. Nuclear Instruments & Methods in Physics Research B, 2006, 242, 473-475.	0.6	10
157	Application of energy-filtering TEM to the nanocrystallization process in amorphous $\text{Fe}_{84}\text{Nb}_7\text{B}_9$ alloy. Journal of Materials Science, 2006, 41, 2597-2600.	1.7	6
158	Local atomic ordering and nanoscale phase separation in a $\text{Pd-Ni-P}$ bulk metallic glass. Physical Review B, 2006, 73, .	1.1	41
159	Characteristic features of the $\text{Fe}_7\text{Mo}_6$ -type structure in a transition-metal alloy examined using transmission electron microscopy. Physical Review B, 2006, 74, .	1.1	14
160	Observation of Local Atomic Structure in $\text{Pd-Ni-P}$ Bulk Metallic Glass using Cs-corrected TEM. Materia Japan, 2006, 45, 848-848.	0.1	0
161	Local Atomic Structures of Amorphous $\text{Fe}_{80}\text{B}_{20}$ and $\text{Fe}_{70}\text{Nb}_{10}\text{B}_{20}$ Alloys Studied by Electron Diffraction. Materials Transactions, 2005, 46, 2781-2784.	0.4	20
162	Volume swelling of amorphous SiC during ion-beam irradiation. Physical Review B, 2005, 72, .	1.1	43

#	ARTICLE	IF	CITATIONS
163	Kinetic process of the phase separation in the alloy Ni <sub>3</sub> Al <sub>0.52</sub> V <sub>0.48</sub> . Physical Review B, 2004, 70, .	1.1	14
164	New Chemical Layered Structure in Ti-Cr Alloys. Materials Transactions, 2002, 43, 1689-1695.	0.4	2
165	Nanometer-Size Polycrystallization in bcc $\leftrightarrow$ hcp + C15 Structural Change of a Ti-30 mol%Cr Alloy. Materials Transactions, 2001, 42, 2553-2558.	0.4	3
166	TEM Analysis on Nanovoid Formation in Annealed Amorphous Oxides. Materials Science Forum, 0, 695, 541-544.	0.3	0