

Takeshi Fujita

List of Publications by Year in descending order

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252
papers

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citations

7568

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263
all docs

263
docs citations

263
times ranked

34080
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoluminescence from Chemically Exfoliated MoS ₂ . Nano Letters, 2011, 11, 5111-5116.	9.1	3,402
2	Enhanced catalytic activity in strained chemically exfoliated WS ₂ nanosheets for hydrogen evolution. Nature Materials, 2013, 12, 850-855.	27.5	2,326
3	Conducting MoS ₂ Nanosheets as Catalysts for Hydrogen Evolution Reaction. Nano Letters, 2013, 13, 6222-6227.	9.1	1,948
4	Nanoporous metal/oxide hybrid electrodes for electrochemical supercapacitors. Nature Nanotechnology, 2011, 6, 232-236.	31.5	1,914
5	Coherent Atomic and Electronic Heterostructures of Single-Layer MoS ₂ . ACS Nano, 2012, 6, 7311-7317.	14.6	806
6	Atomic origins of the high catalytic activity of nanoporous gold. Nature Materials, 2012, 11, 775-780.	27.5	803
7	Multifunctional Porous Graphene for High Efficiency Steam Generation by Heat Localization. Advanced Materials, 2015, 27, 4302-4307.	21.0	769
8	High Catalytic Activity of Nitrogen and Sulfur Co-Doped Nanoporous Graphene in the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2015, 54, 2131-2136.	13.8	760
9	Oxygen reduction in nanoporous metal-ionic liquid composite electrocatalysts. Nature Materials, 2010, 9, 904-907.	27.5	638
10	Covalent functionalization of monolayered transition metal dichalcogenides by phase engineering. Nature Chemistry, 2015, 7, 45-49.	13.6	637
11	Nanoporous Graphene with Single-Atom Nickel Dopants: An Efficient and Stable Catalyst for Electrochemical Hydrogen Production. Angewandte Chemie - International Edition, 2015, 54, 14031-14035.	13.8	628
12	Tunable Photoluminescence from Graphene Oxide. Angewandte Chemie - International Edition, 2012, 51, 6662-6666.	13.8	584
13	Versatile nanoporous bimetallic phosphides towards electrochemical water splitting. Energy and Environmental Science, 2016, 9, 2257-2261.	30.8	535
14	Direct observation of local atomic order in a metallic glass. Nature Materials, 2011, 10, 28-33.	27.5	483
15	Geometric Frustration of Icosahedron in Metallic Glasses. Science, 2013, 341, 376-379.	12.6	423
16	Highly optimized embedded-atom-method potentials for fourteen fcc metals. Physical Review B, 2011, 83, .	3.2	422
17	Nanoporous Copper with Tunable Nanoporosity for SERS Applications. Advanced Functional Materials, 2009, 19, 1221-1226.	14.9	336
18	Surface enhanced Raman scattering of nanoporous gold: Smaller pore sizes stronger enhancements. Applied Physics Letters, 2007, 90, 153120.	3.3	333

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19	Atomic structure of nanoclusters in oxide-dispersion-strengthened steels. <i>Nature Materials</i> , 2011, 10, 922-926.	27.5	306
20	Monolayer MoS ₂ Films Supported by 3D Nanoporous Metals for High-Efficiency Electrocatalytic Hydrogen Production. <i>Advanced Materials</i> , 2014, 26, 8023-8028.	21.0	299
21	Achieving High Strength and High Ductility in Precipitation-Hardened Alloys. <i>Advanced Materials</i> , 2005, 17, 1599-1602.	21.0	273
22	Bicontinuous Nanoporous N-doped Graphene for the Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2014, 26, 4145-4150.	21.0	261
23	Nanoporous PdNi Bimetallic Catalyst with Enhanced Electrocatalytic Performances for Electro-oxidation and Oxygen Reduction Reactions. <i>Advanced Functional Materials</i> , 2011, 21, 4364-4370.	14.9	251
24	Enhanced Supercapacitor Performance of MnO ₂ by Atomic Doping. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1664-1667.	13.8	251
25	Three-dimensional morphology of nanoporous gold. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	235
26	Direct Observation of High-Temperature Superconductivity in One-Unit-Cell FeSe Films. <i>Chinese Physics Letters</i> , 2014, 31, 017401.	3.3	222
27	High-Quality Three-Dimensional Nanoporous Graphene. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4822-4826.	13.8	215
28	Nanoporous Gold Catalyst for Highly Selective Semihydrogenation of Alkynes: Remarkable Effect of Amine Additives. <i>Journal of the American Chemical Society</i> , 2012, 134, 17536-17542.	13.7	201
29	Li Storage in 3D Nanoporous Au-Supported Nanocrystalline Tin. <i>Advanced Materials</i> , 2011, 23, 2443-2447.	21.0	198
30	3D Nanoporous Nitrogen-Doped Graphene with Encapsulated RuO ₂ Nanoparticles for Li-O ₂ Batteries. <i>Advanced Materials</i> , 2015, 27, 6137-6143.	21.0	195
31	Photocatalytic uphill conversion of natural gas beyond the limitation of thermal reaction systems. <i>Nature Catalysis</i> , 2020, 3, 148-153.	34.4	194
32	Nanoscale phase separation in a fcc-based CoCrCuFeNiAl _{0.5} high-entropy alloy. <i>Acta Materialia</i> , 2015, 84, 145-152.	7.9	193
33	Atomic structure of amorphous shear bands in boron carbide. <i>Nature Communications</i> , 2013, 4, 2483.	12.8	190
34	Atomic-Scale Heterogeneity of a Multicomponent Bulk Metallic Glass with Excellent Glass Forming Ability. <i>Physical Review Letters</i> , 2009, 103, 075502.	7.8	189
35	Toward the Theoretical Capacitance of RuO ₂ Reinforced by Highly Conductive Nanoporous Gold. <i>Advanced Energy Materials</i> , 2013, 3, 851-856.	19.5	184
36	Chemically exfoliated ReS ₂ nanosheets. <i>Nanoscale</i> , 2014, 6, 12458-12462.	5.6	160

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37	A Three-dimensional Gold-decorated Nanoporous Copper Core-shell Composite for Electrocatalysis and Nonenzymatic Biosensing. <i>Advanced Functional Materials</i> , 2010, 20, 2279-2285.	14.9	159
38	Formation and Characterization of Hydrogen Boride Sheets Derived from MgB_2 by Cation Exchange. <i>Journal of the American Chemical Society</i> , 2017, 139, 13761-13769.	13.7	157
39	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.	7.9	153
40	Geometrically Controlled Nanoporous PdAu Bimetallic Catalysts with Tunable Pd/Au Ratio for Direct Ethanol Fuel Cells. <i>ACS Catalysis</i> , 2013, 3, 1220-1230.	11.2	152
41	Self-grown Oxyhydroxide@ Nanoporous Metal Electrode for High-performance Supercapacitors. <i>Advanced Materials</i> , 2014, 26, 269-272.	21.0	152
42	Structural origins of Johari-Goldstein relaxation in a metallic glass. <i>Nature Communications</i> , 2014, 5, 3238.	12.8	144
43	Fabrication of large-scale nanoporous nickel with a tunable pore size for energy storage. <i>Journal of Power Sources</i> , 2014, 247, 896-905.	7.8	140
44	Field Emission from Atomically Thin Edges of Reduced Graphene Oxide. <i>ACS Nano</i> , 2011, 5, 4945-4952.	14.6	139
45	Atomic-scale disproportionation in amorphous silicon monoxide. <i>Nature Communications</i> , 2016, 7, 11591.	12.8	138
46	Lithium intercalation into bilayer graphene. <i>Nature Communications</i> , 2019, 10, 275.	12.8	136
47	High-resolution Electrochemical Mapping of the Hydrogen Evolution Reaction on Transition-metal Dichalcogenide Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3601-3608.	13.8	136
48	Effect of Chemical Doping on Cathodic Performance of Bicontinuous Nanoporous Graphene for LiO_2 Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1501870.	19.5	132
49	Three-dimensional bicontinuous nanoporous materials by vapor phase dealloying. <i>Nature Communications</i> , 2018, 9, 276.	12.8	123
50	Enhanced mechanical properties of nanocrystalline boron carbide by nanoporosity and interface phases. <i>Nature Communications</i> , 2012, 3, 1052.	12.8	119
51	A Core-shell Nanoporous Pt-Cu Catalyst with Tunable Composition and High Catalytic Activity. <i>Advanced Functional Materials</i> , 2013, 23, 4156-4162.	14.9	118
52	Aligned Nanoporous Pt-Cu Bimetallic Microwires with High Catalytic Activity toward Methanol Electrooxidation. <i>ACS Catalysis</i> , 2015, 5, 3779-3785.	11.2	117
53	Correlation between Local Structure Order and Spatial Heterogeneity in a Metallic Glass. <i>Physical Review Letters</i> , 2017, 119, 215501.	7.8	116
54	Structural Origins of the Excellent Glass Forming Ability of $Pd_{40}Ni_{20}Pt_{20}Cu_{20}$. <i>Physical Review Letters</i> , 2012, 108, 175501.	7.8	115

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55	Regulating Infrared Photoresponses in Reduced Graphene Oxide Phototransistors by Defect and Atomic Structure Control. <i>ACS Nano</i> , 2013, 7, 6310-6320.	14.6	112
56	Correlation between Chemical Dopants and Topological Defects in Catalytically Active Nanoporous Graphene. <i>Advanced Materials</i> , 2016, 28, 10644-10651.	21.0	110
57	Atomic Observation of Catalysis-Induced Nanopore Coarsening of Nanoporous Gold. <i>Nano Letters</i> , 2014, 14, 1172-1177.	9.1	109
58	Formation of an intermediate compound with a B ₁₂ H ₁₂ cluster: experimental and theoretical studies on magnesium borohydride Mg(BH ₄) ₂ . <i>Nanotechnology</i> , 2009, 20, 204013.	2.6	104
59	Chemical Vapor Deposition of Monolayer Mo _{1-x} W _x S ₂ Crystals with Tunable Band Gaps. <i>Scientific Reports</i> , 2016, 6, 21536.	3.3	101
60	Three-dimensional bicontinuous nanoporous Au/polyaniline hybrid films for high-performance electrochemical supercapacitors. <i>Journal of Power Sources</i> , 2012, 197, 325-329.	7.8	100
61	Unsupported Nanoporous Gold Catalyst for Highly Selective Hydrogenation of Quinolines. <i>Organic Letters</i> , 2013, 15, 1484-1487.	4.6	99
62	Tailored Catalytic Nanoframes from Metal-Organic Frameworks by Anisotropic Surface Modification and Etching for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4747-4755.	13.8	92
63	Nanoporous gold for enzyme-free electrochemical glucose sensors. <i>Scripta Materialia</i> , 2011, 65, 17-20.	5.2	90
64	Structure and mechanical properties of boron-rich boron carbides. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4514-4523.	5.7	89
65	Nanoporous ultra-high-entropy alloys containing fourteen elements for water splitting electrocatalysis. <i>Chemical Science</i> , 2021, 12, 11306-11315.	7.4	88
66	Nanoporous metal based flexible asymmetric pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10910-10916.	10.3	87
67	Synergistic alloying effect on microstructural evolution and mechanical properties of Cu precipitation-strengthened ferritic alloys. <i>Acta Materialia</i> , 2013, 61, 7726-7740.	7.9	85
68	Visualizing Undercoordinated Surface Atoms on 3D Nanoporous Gold Catalysts. <i>Advanced Materials</i> , 2016, 28, 1753-1759.	21.0	85
69	Grain refinement and superplastic flow in an aluminum alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 408, 141-146.	5.6	84
70	High-energy-density nonaqueous MnO ₂ @nanoporous gold based supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9202.	10.3	84
71	Characteristic Length Scale of Bicontinuous Nanoporous Structure by Fast Fourier Transform. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 1161.	1.5	80
72	Using grain boundary engineering to evaluate the diffusion characteristics in ultrafine-grained Al-Mg and Al-Zn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 371, 241-250.	5.6	79

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73	Unusually Small Electrical Resistance of Three-Dimensional Nanoporous Gold in External Magnetic Fields. <i>Physical Review Letters</i> , 2008, 101, 166601.	7.8	79
74	Characteristic Length and Temperature Dependence of Surface Enhanced Raman Scattering of Nanoporous Gold. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10956-10961.	3.1	79
75	A nanoscale co-precipitation approach for property enhancement of Fe-base alloys. <i>Scientific Reports</i> , 2013, 3, 1327.	3.3	79
76	Ultra-Large Room-Temperature Compressive Plasticity of a Nanocrystalline Metal. <i>Nano Letters</i> , 2007, 7, 2108-2111.	9.1	78
77	Correlation between structural relaxation and shear transformation zone volume of a bulk metallic glass. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	77
78	Micromechanisms of serrated flow in a Ni ₅₀ Pd ₃₀ Pt ₂₀ bulk metallic glass with a large compression plasticity. <i>Acta Materialia</i> , 2008, 56, 2834-2842.	7.9	75
79	Geometric effect on surface enhanced Raman scattering of nanoporous gold: Improving Raman scattering by tailoring ligament and nanopore ratios. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	75
80	Coupling between chemical and dynamic heterogeneities in a multicomponent bulk metallic glass. <i>Physical Review B</i> , 2010, 81, .	3.2	74
81	Intercalation pseudocapacitance of amorphous titanium dioxide@nanoporous graphene for high-rate and large-capacity energy storage. <i>Nano Energy</i> , 2018, 49, 354-362.	16.0	74
82	Characteristics of diffusion in Al-Mg alloys with ultrafine grain sizes. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002, 82, 2249-2262.	0.6	73
83	Electroplated Thick Manganese Oxide Films with Ultrahigh Capacitance. <i>Advanced Energy Materials</i> , 2013, 3, 857-863.	19.5	70
84	Large Enhancement of Quantum Dot Fluorescence by Highly Scalable Nanoporous Gold. <i>Advanced Materials</i> , 2014, 26, 1289-1294.	21.0	69
85	Engineering the internal surfaces of three-dimensional nanoporous catalysts by surfactant-modified dealloying. <i>Nature Communications</i> , 2017, 8, 1066.	12.8	69
86	Effect of Residual Silver on Surface-Enhanced Raman Scattering of Dealloyed Nanoporous Gold. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19583-19587.	3.1	66
87	On-chip Micro-pseudocapacitors for Ultrahigh Energy and Power Delivery. <i>Advanced Science</i> , 2015, 2, 1500067.	11.2	66
88	Characterization of oxide nanoprecipitates in an oxide dispersion strengthened 14YWT steel using aberration-corrected STEM. <i>Acta Materialia</i> , 2012, 60, 5686-5696.	7.9	65
89	Full Performance Nanoporous Graphene Based Li ₂ Batteries through Solution Phase Oxygen Reduction and Redox-Additive Mediated Li ₂ O ₂ Oxidation. <i>Advanced Energy Materials</i> , 2017, 7, 1601933.	19.5	65
90	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13302-13307.	13.8	64

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91	Operando Observations of SEI Film Evolution by Mass-Sensitive Scanning Transmission Electron Microscopy. <i>Advanced Energy Materials</i> , 2019, 9, 1902675.	19.5	64
92	Photoinduced hydrogen release from hydrogen boride sheets. <i>Nature Communications</i> , 2019, 10, 4880.	12.8	63
93	Synthesizing 1T ⁺ 1H Two-Phase Mo ₂ W ₂ S ₂ Monolayers by Chemical Vapor Deposition. <i>ACS Nano</i> , 2018, 12, 1571-1579.	14.6	62
94	Conversion of methane with carbon dioxide into C ₂ hydrocarbons over metal oxides. <i>Applied Catalysis A: General</i> , 1995, 126, 245-255.	4.3	60
95	Biofunctionalized nanoporous gold for electrochemical biosensors. <i>Electrochimica Acta</i> , 2012, 67, 1-5.	5.2	60
96	Noble-Metal-Free Metallic Glass as a Highly Active and Stable Bifunctional Electrocatalyst for Water Splitting. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601086.	3.7	60
97	Reduced Graphene Oxide Thin Films as Ultrabarrriers for Organic Electronics. <i>Advanced Energy Materials</i> , 2014, 4, 1300986.	19.5	59
98	A nanoporous metal recuperated MnO ₂ anode for lithium ion batteries. <i>Nanoscale</i> , 2015, 7, 15111-15116.	5.6	58
99	Influences of grain size and grain boundary segregation on mechanical behavior of nanocrystalline Ni. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 2297-2304.	5.6	55
100	Tuning Surface Structure of 3D Nanoporous Gold by Surfactant-Free Electrochemical Potential Cycling. <i>Advanced Materials</i> , 2017, 29, 1703601.	21.0	54
101	Bilayered nanoporous graphene/molybdenum oxide for high rate lithium ion batteries. <i>Nano Energy</i> , 2018, 45, 273-279.	16.0	54
102	Formation Mechanism of Boron-Based Nanosheet through the Reaction of MgB ₂ with Water. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10587-10593.	3.1	53
103	Size dependence of molecular fluorescence enhancement of nanoporous gold. <i>Applied Physics Letters</i> , 2010, 96, 073701.	3.3	52
104	Deposition of multicomponent metallic glass films by single-target magnetron sputtering. <i>Intermetallics</i> , 2012, 21, 105-114.	3.9	52
105	Ultrahigh capacitance of nanoporous metal enhanced conductive polymer pseudocapacitors. <i>Journal of Power Sources</i> , 2013, 225, 304-310.	7.8	52
106	Hierarchical nanoporosity enhanced reversible capacity of bicontinuous nanoporous metal based Li-O ₂ battery. <i>Scientific Reports</i> , 2016, 6, 33466.	3.3	52
107	Extraordinary Supercapacitor Performance of a Multicomponent and Mixed-Valence Oxyhydroxide. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8100-8104.	13.8	50
108	Hierarchical nanoporous metals as a path toward the ultimate three-dimensional functionality. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 724-740.	6.1	50

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109	3D Bicontinuous Nanoporous Reduced Graphene Oxide for Highly Sensitive Photodetectors. <i>Advanced Functional Materials</i> , 2016, 26, 1271-1277.	14.9	48
110	Nanoindentation characterization of deformation and failure of aluminum oxynitride. <i>Acta Materialia</i> , 2011, 59, 1671-1679.	7.9	47
111	Shear amorphization of boron suboxide. <i>Scripta Materialia</i> , 2014, 76, 9-12.	5.2	47
112	Electric Properties of Dirac Fermions Captured into 3D Nanoporous Graphene Networks. <i>Advanced Materials</i> , 2016, 28, 10304-10310.	21.0	47
113	Operando observations of RuO ₂ catalyzed Li ₂ O ₂ formation and decomposition in a Li-O ₂ micro-battery. <i>Nano Energy</i> , 2018, 47, 427-433.	16.0	47
114	Visible-light-driven dry reforming of methane using a semiconductor-supported catalyst. <i>Chemical Communications</i> , 2020, 56, 4611-4614.	4.1	46
115	Pressure-induced depolarization and resonance in Raman scattering of single-crystalline boron carbide. <i>Physical Review B</i> , 2010, 81, .	3.2	43
116	Promoted C-C bond cleavage over intermetallic TaPt ₃ catalyst toward low-temperature energy extraction from ethanol. <i>Energy and Environmental Science</i> , 2015, 8, 1685-1689.	30.8	43
117	Low-temperature solution-processable Ni(OH) ₂ ultrathin nanosheet/N-graphene nanohybrids for high-performance supercapacitor electrodes. <i>Nanoscale</i> , 2014, 6, 5960-5966.	5.6	41
118	Direct Observations of the Formation and Redox-Mediator-Assisted Decomposition of Li ₂ O ₂ in a Liquid-Cell Li-O ₂ Microbattery by Scanning Transmission Electron Microscopy. <i>Advanced Materials</i> , 2017, 29, 1702752.	21.0	41
119	Synthesis and Optical Properties of Three-Dimensional Porous Core-Shell Nanoarchitectures. <i>Langmuir</i> , 2008, 24, 4426-4429.	3.5	40
120	Thermoelectric power factor enhancement based on carrier transport physics in ultimately phonon-controlled Si nanostructures. <i>Materials Today Energy</i> , 2019, 13, 56-63.	4.7	39
121	Time-resolved atomic-scale observations of deformation and fracture of nanoporous gold under tension. <i>Acta Materialia</i> , 2019, 165, 99-108.	7.9	39
122	Sample size induced brittle-to-ductile transition of single-crystal aluminum nitride. <i>Acta Materialia</i> , 2015, 88, 252-259.	7.9	38
123	Tunable Nanoporous Metallic Glasses Fabricated by Selective Phase Dissolution and Passivation for Ultrafast Hydrogen Uptake. <i>Chemistry of Materials</i> , 2017, 29, 4478-4483.	6.7	38
124	The aging characteristics of an Al-Ag alloy processed by equal-channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 437, 240-247.	5.6	37
125	Surface-Enhanced Raman Scattering of Silver@Nanoporous Copper Core-Shell Composites Synthesized by an In Situ Sacrificial Template Approach. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14195-14199.	3.1	36
126	Large-scale growth of sharp gold nano-cones for single-molecule SERS detection. <i>RSC Advances</i> , 2016, 6, 2882-2887.	3.6	36

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127	Stimulation of Electro-oxidation Catalysis by Bulk-Structural Transformation in Intermetallic ZrPt ₃ Nanoparticles. ACS Applied Materials & Interfaces, 2014, 6, 16124-16130.	8.0	35
128	Graphene-based quasi-solid-state lithium-oxygen batteries with high energy efficiency and a long cycling lifetime. NPG Asia Materials, 2018, 10, 1037-1045.	7.9	35
129	Distortion of Local Atomic Structures in Amorphous Ge-Sb-Te Phase Change Materials. Physical Review Letters, 2018, 120, 205502.	7.8	35
130	Asymmetric twins in rhombohedral boron carbide. Applied Physics Letters, 2014, 104, 021907.	3.3	32
131	Two-Dimensional Hallmark of Highly Interconnected Three-Dimensional Nanoporous Graphene. ACS Omega, 2017, 2, 3691-3697.	3.5	32
132	NbPt ₃ Intermetallic Nanoparticles: Highly Stable and CO-Tolerant Electrocatalyst for Fuel Oxidation. ChemElectroChem, 2014, 1, 728-732.	3.4	31
133	The synergistic effect of nanoporous AuPd alloy catalysts on highly chemoselective 1,4-hydrosilylation of conjugated cyclic enones. Chemical Communications, 2014, 50, 3344.	4.1	31
134	Hierarchical Nanoporous Copper Architectures via 3D Printing Technique for Highly Efficient Catalysts. Small, 2019, 15, e1805432.	10.0	31
135	Low temperature uniform plastic deformation of metallic glasses during elastic iteration. Acta Materialia, 2012, 60, 3741-3747.	7.9	30
136	Tailored nanoporous gold for ultrahigh fluorescence enhancement. Physical Chemistry Chemical Physics, 2011, 13, 3795.	2.8	29
137	3D bicontinuous nanoporous plasmonic heterostructure for enhanced hydrogen evolution reaction under visible light. Nano Energy, 2019, 58, 552-559.	16.0	29
138	Electrochemical synthesis of palladium nanostructures with controllable morphology. Nanotechnology, 2010, 21, 085601.	2.6	27
139	Innovative processing of high-strength and low-cost ferritic steels strengthened by TiO nanoclusters. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 544, 59-69.	5.6	27
140	Three-Dimensional Hierarchical Nanoporosity for Ultrahigh Power and Excellent Cyclability of Electrochemical Pseudocapacitors. Advanced Energy Materials, 2014, 4, 1301809.	19.5	27
141	Three-Dimensional Nanoporous Heterojunction of Monolayer MoS ₂ @rGO for Photoenhanced Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2018, 1, 2183-2191.	5.1	27
142	Topologically immobilized catalysis centre for long-term stable carbon dioxide reforming of methane. Chemical Science, 2019, 10, 3701-3705.	7.4	27
143	Boron effects on the ductility of a nano-cluster-strengthened ferritic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 855-859.	5.6	26
144	Nanoporous Metal Papers for Scalable Hierarchical Electrode. Advanced Science, 2015, 2, 1500086.	11.2	26

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145	Interface structure and properties of a brass-reinforced Ni ₅₉ Zr ₂₀ Ti ₁₆ Si ₂ Sn ₃ bulk metallic glass composite. <i>Acta Materialia</i> , 2008, 56, 3077-3087.	7.9	25
146	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.	3.3	25
147	$40 < \text{Ni} > < \text{P} >$	3.2	24
148	Scanning distortion correction in STEM images. <i>Ultramicroscopy</i> , 2018, 184, 274-283.	1.9	23
149	Doping Effect on High-Pressure Structural Stability of ZnO Nanowires. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1164-1167.	3.1	22
150	Nano-twinned structure and photocatalytic properties under visible light for undoped nano-titania synthesised by hydrothermal reaction in water-ethanol mixture. <i>Journal of Supercritical Fluids</i> , 2011, 58, 136-141.	3.2	22
151	Thermal properties of nanoporous gold. <i>Physical Review B</i> , 2012, 85, .	3.2	22
152	Environment-Sensitive Thermal Coarsening of Nanoporous Gold. <i>Materials Transactions</i> , 2015, 56, 468-472.	1.2	22
153	Non-aqueous nanoporous gold based supercapacitors with high specific energy. <i>Scripta Materialia</i> , 2016, 116, 76-81.	5.2	22
154	Electron holography of single-crystal iron nanorods encapsulated in carbon nanotubes. <i>Journal of Applied Physics</i> , 2007, 101, 014323.	2.5	21
155	High-pressure Raman spectroscopy of carbon onions and nanocapsules. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	21
156	Unveiling Three-Dimensional Stacking Sequences of 1T Phase MoS ₂ Monolayers by Electron Diffraction. <i>ACS Nano</i> , 2016, 10, 10308-10316.	14.6	21
157	Crystalline boron monosulfide nanosheets with tunable bandgaps. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24631-24640.	10.3	21
158	Doping and temperature dependence of Raman scattering from NdFeAsO		

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163	Crystallographic orientation contrast associated with Ga ⁺ ion channelling for Fe and Cu in focused ion beam method. <i>Journal of Electron Microscopy</i> , 2004, 53, 571-576.	0.9	19
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