

Mingwei Chen

List of Publications by Year in descending order

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399
papers

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citations

1231

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412
all docs

412
docs citations

412
times ranked

45493
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoluminescence from Chemically Exfoliated MoS ₂ . Nano Letters, 2011, 11, 5111-5116.	4.5	3,402
2	High tensile ductility in a nanostructured metal. Nature, 2002, 419, 912-915.	13.7	2,527
3	Enhanced catalytic activity in strained chemically exfoliated WS ₂ nanosheets for hydrogen evolution. Nature Materials, 2013, 12, 850-855.	13.3	2,326
4	Conducting MoS ₂ Nanosheets as Catalysts for Hydrogen Evolution Reaction. Nano Letters, 2013, 13, 6222-6227.	4.5	1,948
5	Nanoporous metal/oxide hybrid electrodes for electrochemical supercapacitors. Nature Nanotechnology, 2011, 6, 232-236.	15.6	1,914
6	A precipitation-hardened high-entropy alloy with outstanding tensile properties. Acta Materialia, 2016, 102, 187-196.	3.8	1,665
7	Deformation Twinning in Nanocrystalline Aluminum. Science, 2003, 300, 1275-1277.	6.0	1,058
8	Ultrastrong steel via minimal lattice misfit and high-density nanoprecipitation. Nature, 2017, 544, 460-464.	13.7	843
9	Efficient hydrogen production on MoNi ₄ electrocatalysts with fast water dissociation kinetics. Nature Communications, 2017, 8, 15437.	5.8	813
10	Coherent Atomic and Electronic Heterostructures of Single-Layer MoS ₂ . ACS Nano, 2012, 6, 7311-7317.	7.3	806
11	Atomic origins of the high catalytic activity of nanoporous gold. Nature Materials, 2012, 11, 775-780.	13.3	803
12	Multifunctional Porous Graphene for High-Efficiency Steam Generation by Heat Localization. Advanced Materials, 2015, 27, 4302-4307.	11.1	769
13	High Catalytic Activity of Nitrogen and Sulfur Co-Doped Nanoporous Graphene in the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2015, 54, 2131-2136.	7.2	760
14	Oxygen reduction in nanoporous metal-ionic liquid composite electrocatalysts. Nature Materials, 2010, 9, 904-907.	13.3	638
15	Covalent functionalization of monolayered transition metal dichalcogenides by phase engineering. Nature Chemistry, 2015, 7, 45-49.	6.6	637
16	Nanoporous Graphene with Single-Atom Nickel Dopants: An Efficient and Stable Catalyst for Electrochemical Hydrogen Production. Angewandte Chemie - International Edition, 2015, 54, 14031-14035.	7.2	628
17	Tunable Photoluminescence from Graphene Oxide. Angewandte Chemie - International Edition, 2012, 51, 6662-6666.	7.2	584
18	Versatile nanoporous bimetallic phosphides towards electrochemical water splitting. Energy and Environmental Science, 2016, 9, 2257-2261.	15.6	535

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19	Mechanical Behavior of Metallic Glasses: Microscopic Understanding of Strength and Ductility. Annual Review of Materials Research, 2008, 38, 445-469.	4.3	513
20	Engineering water dissociation sites in MoS ₂ nanosheets for accelerated electrocatalytic hydrogen production. Energy and Environmental Science, 2016, 9, 2789-2793.	15.6	503
21	Core-Shell Structured CNT@RuO ₂ Composite as a High-Performance Cathode Catalyst for Rechargeable Li-O ₂ Batteries. Angewandte Chemie - International Edition, 2014, 53, 442-446.	7.2	495
22	Experimental characterization of shear transformation zones for plastic flow of bulk metallic glasses. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14769-14772.	3.3	487
23	Shock-Induced Localized Amorphization in Boron Carbide. Science, 2003, 299, 1563-1566.	6.0	483
24	Direct observation of local atomic order in a metallic glass. Nature Materials, 2011, 10, 28-33.	13.3	483
25	Geometric Frustration of Icosahedron in Metallic Glasses. Science, 2013, 341, 376-379.	6.0	423
26	Highly optimized embedded-atom-method potentials for fourteen fcc metals. Physical Review B, 2011, 83, .	1.1	422
27	Metallic Mesoporous Nanocomposites for Electrocatalysis. Journal of the American Chemical Society, 2004, 126, 6876-6877.	6.6	410
28	A brief overview of bulk metallic glasses. NPG Asia Materials, 2011, 3, 82-90.	3.8	389
29	Nanoporous Metals for Catalytic and Optical Applications. MRS Bulletin, 2009, 34, 569-576.	1.7	378
30	Characterization of Nanoscale Mechanical Heterogeneity in a Metallic Glass by Dynamic Force Microscopy. Physical Review Letters, 2011, 106, 125504.	2.9	347
31	Ultrafine nanoporous gold by low-temperature dealloying and kinetics of nanopore formation. Applied Physics Letters, 2007, 91, .	1.5	342
32	Nanoporous Copper with Tunable Nanoporosity for SERS Applications. Advanced Functional Materials, 2009, 19, 1221-1226.	7.8	336
33	Surface enhanced Raman scattering of nanoporous gold: Smaller pore sizes stronger enhancements. Applied Physics Letters, 2007, 90, 153120.	1.5	333
34	A Layered P ₂ and O ₃ Type Composite as a High-Energy Cathode for Rechargeable Sodium-Ion Batteries. Angewandte Chemie - International Edition, 2015, 54, 5894-5899.	7.2	321
35	Zinc-Mediated Template Synthesis of Fe-Ni Electrocatalysts with Densely Accessible Fe-Ni Active Sites for Efficient Oxygen Reduction. Advanced Materials, 2020, 32, e1907399.	11.1	319
36	Mechanical properties of refractory high-entropy alloys: Experiments and modeling. Journal of Alloys and Compounds, 2017, 696, 1139-1150.	2.8	307

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37	Atomic structure of nanoclusters in oxide-dispersion-strengthened steels. <i>Nature Materials</i> , 2011, 10, 922-926.	13.3	306
38	Fe ₂ O ₃ nanocrystals anchored onto graphene nanosheets as the anode material for low-cost sodium-ion batteries. <i>Chemical Communications</i> , 2014, 50, 1215-1217.	2.2	297
39	Grain rotation mediated by grain boundary dislocations in nanocrystalline platinum. <i>Nature Communications</i> , 2014, 5, 4402.	5.8	286
40	Relating activation of shear transformation zones to γ^2 relaxations in metallic glasses. <i>Physical Review B</i> , 2010, 81, .	1.1	279
41	A Phthalocyanine-Based Layered Two-Dimensional Conjugated Metal-Organic Framework as a Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10677-10682.	7.2	278
42	Extraordinary Plasticity of Ductile Bulk Metallic Glasses. <i>Physical Review Letters</i> , 2006, 96, 245502.	2.9	275
43	Nanoporous Metals by Dealloying Multicomponent Metallic Glasses. <i>Chemistry of Materials</i> , 2008, 20, 4548-4550.	3.2	272
44	Bicontinuous Nanoporous N-doped Graphene for the Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2014, 26, 4145-4150.	11.1	261
45	ALON: A brief history of its emergence and evolution. <i>Journal of the European Ceramic Society</i> , 2009, 29, 223-236.	2.8	260
46	Rapid Degradation of Azo Dye by Fe-Based Metallic Glass Powder. <i>Advanced Functional Materials</i> , 2012, 22, 2567-2570.	7.8	259
47	Enhanced tensile ductility and toughness in nanostructured Cu. <i>Applied Physics Letters</i> , 2002, 80, 2395-2397.	1.5	254
48	Lithiophilic 3D Nanoporous Nitrogen-Doped Graphene for Dendrite-Free and Ultrahigh-Rate Lithium-Metal Anodes. <i>Advanced Materials</i> , 2019, 31, e1805334.	11.1	254
49	Nanoporous PdNi Bimetallic Catalyst with Enhanced Electrocatalytic Performances for Electro-oxidation and Oxygen Reduction Reactions. <i>Advanced Functional Materials</i> , 2011, 21, 4364-4370.	7.8	251
50	Enhanced Supercapacitor Performance of MnO ₂ by Atomic Doping. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1664-1667.	7.2	251
51	Wrinkled Nanoporous Gold Films with Ultrahigh Surface-Enhanced Raman Scattering Enhancement. <i>ACS Nano</i> , 2011, 5, 4407-4413.	7.3	249
52	Metal and Nonmetal Codoped 3D Nanoporous Graphene for Efficient Bifunctional Electrocatalysis and Rechargeable Zn-Air Batteries. <i>Advanced Materials</i> , 2019, 31, e1900843.	11.1	236
53	Three-dimensional morphology of nanoporous gold. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	235
54	Unveiling Electronic Properties in Metal-Phthalocyanine-Based Pyrazine-Linked Conjugated Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 16810-16816.	6.6	227

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55	Environmentally stable interface of layered oxide cathodes for sodium-ion batteries. <i>Nature Communications</i> , 2017, 8, 135.	5.8	218
56	Nanostructured Materials as Catalysts: Nanoporousâ€œGoldâ€œCatalyzed Oxidation of Organosilanes with Water. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 10093-10095.	7.2	215
57	Highâ€œQuality Threeâ€œDimensional Nanoporous Graphene. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4822-4826.	7.2	215
58	High-performance symmetric sodium-ion batteries using a new, bipolar O3-type material, Na_{0.8}Ni_{0.4}Ti_{0.6}O₂. <i>Energy and Environmental Science</i> , 2015, 8, 1237-1244.	15.6	215
59	Effect of defects on fracture strength of graphene sheets. <i>Computational Materials Science</i> , 2012, 54, 236-239.	1.4	208
60	Nanoporous Metal Enhanced Catalytic Activities of Amorphous Molybdenum Sulfide for Highâ€œEfficiency Hydrogen Production. <i>Advanced Materials</i> , 2014, 26, 3100-3104.	11.1	204
61	Dealloying to nanoporous Au/Pt alloys and their structure sensitive electrocatalytic properties. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 239-246.	1.3	200
62	Single molecule detection from a large-scale SERS-active Au ₇₉ Ag ₂₁ substrate. <i>Scientific Reports</i> , 2011, 1, 112.	1.6	198
63	Li Storage in 3D Nanoporous Auâ€œSupported Nanocrystalline Tin. <i>Advanced Materials</i> , 2011, 23, 2443-2447.	11.1	198
64	Quasicrystals in a partially devitrified Zr ₆₅ Al _{7.5} Ni ₁₀ Cu _{12.5} Ag ₅ bulk metallic glass. <i>Applied Physics Letters</i> , 1999, 75, 1697-1699.	1.5	197
65	Intrinsic correlation between $\hat{\rho}^2$ -relaxation and spatial heterogeneity in a metallic glass. <i>Nature Communications</i> , 2016, 7, 11516.	5.8	197
66	3D Nanoporous Nitrogenâ€œDoped Graphene with Encapsulated RuO₂ Nanoparticles for Liâ€œO₂ Batteries. <i>Advanced Materials</i> , 2015, 27, 6137-6143.	11.1	195
67	Atomic structure of amorphous shear bands in boron carbide. <i>Nature Communications</i> , 2013, 4, 2483.	5.8	190
68	Atomic-Scale Heterogeneity of a Multicomponent Bulk Metallic Glass with Excellent Glass Forming Ability. <i>Physical Review Letters</i> , 2009, 103, 075502.	2.9	189
69	High-temperature bulk metallic glasses developed by combinatorial methods. <i>Nature</i> , 2019, 569, 99-103.	13.7	185
70	Toward the Theoretical Capacitance of RuO₂ Reinforced by Highly Conductive Nanoporous Gold. <i>Advanced Energy Materials</i> , 2013, 3, 851-856.	10.2	184
71	Stress-Temperature Scaling for Steady-State Flow in Metallic Glasses. <i>Physical Review Letters</i> , 2010, 104, 205701.	2.9	183
72	Evolution of a diffusion aluminide bond coat for thermal barrier coatings during thermal cycling. <i>Acta Materialia</i> , 2003, 51, 2205-2217.	3.8	179

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73	Nanoporous Gold Based Optical Sensor for Sub-ppt Detection of Mercury Ions. ACS Nano, 2013, 7, 4595-4600.	7.3	175
74	Hyperpolarized Xe NMR signal advancement by metal-organic framework entrapment in aqueous solution. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17558-17563.	3.3	175
75	Atomic-Sized Pores Enhanced Electrocatalysis of TaS ₂ Nanosheets for Hydrogen Evolution. Advanced Materials, 2016, 28, 8945-8949.	11.1	167
76	Flow Unit Perspective on Room Temperature Homogeneous Plastic Deformation in Metallic Glasses. Physical Review Letters, 2014, 113, 045501.	2.9	165
77	3D Nanoporous Metal Phosphides toward High-Efficiency Electrochemical Hydrogen Production. Advanced Materials, 2016, 28, 2951-2955.	11.1	163
78	Chemically exfoliated ReS ₂ nanosheets. Nanoscale, 2014, 6, 12458-12462.	2.8	160
79	A Three-Dimensional Gold-Decorated Nanoporous Copper Core-Shell Composite for Electrocatalysis and Nonenzymatic Biosensing. Advanced Functional Materials, 2010, 20, 2279-2285.	7.8	159
80	Microstructure characterization of Cu-rich nanoprecipitates in a Fe-2.5 Cu-1.5 Mn-4.0 Ni-1.0 Al multicomponent ferritic alloy. Acta Materialia, 2013, 61, 2133-2147.	3.8	153
81	Geometrically Controlled Nanoporous PdAu Bimetallic Catalysts with Tunable Pd/Au Ratio for Direct Ethanol Fuel Cells. ACS Catalysis, 2013, 3, 1220-1230.	5.5	152
82	Self-Grown Oxyhydroxide@ Nanoporous Metal Electrode for High-Performance Supercapacitors. Advanced Materials, 2014, 26, 269-272.	11.1	152
83	Dynamic plasticity and failure of high-purity alumina under shock loading. Nature Materials, 2006, 5, 614-618.	13.3	149
84	Depressurization Amorphization of Single-Crystal Boron Carbide. Physical Review Letters, 2009, 102, 075505.	2.9	148
85	In situ atomic-scale observation of continuous and reversible lattice deformation beyond the elastic limit. Nature Communications, 2013, 4, 2413.	5.8	147
86	Structural origins of Johari-Goldstein relaxation in a metallic glass. Nature Communications, 2014, 5, 3238.	5.8	144
87	Fabrication of large-scale nanoporous nickel with a tunable pore size for energy storage. Journal of Power Sources, 2014, 247, 896-905.	4.0	140
88	Field Emission from Atomically Thin Edges of Reduced Graphene Oxide. ACS Nano, 2011, 5, 4945-4952.	7.3	139
89	Atomic-scale disproportionation in amorphous silicon monoxide. Nature Communications, 2016, 7, 11591.	5.8	138
90	Bicontinuous nanotubular graphene-polypyrrole hybrid for high performance flexible supercapacitors. Nano Energy, 2016, 19, 391-400.	8.2	137

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91	High-Resolution Electrochemical Mapping of the Hydrogen Evolution Reaction on Transition-Metal Dichalcogenide Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3601-3608.	7.2	136
92	Localized surface plasmon resonance of nanoporous gold. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	135
93	Effect of Chemical Doping on Cathodic Performance of Bicontinuous Nanoporous Graphene for Li-O_2 Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1501870.	10.2	132
94	Thermodynamic Origins of Shear Band Formation and the Universal Scaling Law of Metallic Glass Strength. <i>Physical Review Letters</i> , 2009, 103, 065504.	2.9	131
95	Microstructural Characterization of Commercial Hot-Pressed Boron Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1935-1942.	1.9	130
96	A High-Voltage and Ultralong-Life Sodium Full Cell for Stationary Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11701-11705.	7.2	126
97	Reversible anionic redox activity in Na_3RuO_4 cathodes: a prototype Na-rich layered oxide. <i>Energy and Environmental Science</i> , 2018, 11, 299-305.	15.6	126
98	Novel Nanoporous Au-Pd Alloy with High Catalytic Activity and Excellent Electrochemical Stability. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2600-2603.	1.5	124
99	Three-dimensional bicontinuous nanoporous materials by vapor phase dealloying. <i>Nature Communications</i> , 2018, 9, 276.	5.8	123
100	Monodispersed hierarchical Co_3O_4 spheres intertwined with carbon nanotubes for use as anode materials in sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13805.	5.2	122
101	Enhanced mechanical properties of nanocrystalline boron carbide by nanoporosity and interface phases. <i>Nature Communications</i> , 2012, 3, 1052.	5.8	119
102	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
103	Raman spectroscopy of pressure-induced amorphous boron carbide. <i>Applied Physics Letters</i> , 2006, 88, 131905.	1.5	117
104	Aligned Nanoporous Pt-Cu Bimetallic Microwires with High Catalytic Activity toward Methanol Electrooxidation. <i>ACS Catalysis</i> , 2015, 5, 3779-3785.	5.5	117
105	Correlation between Local Structure Order and Spatial Heterogeneity in a Metallic Glass. <i>Physical Review Letters</i> , 2017, 119, 215501.	2.9	116
106	Structural Origins of the Excellent Glass Forming Ability of $\text{Pd}_{40}\text{Ni}_{40}\text{P}_{20}$. <i>Physical Review Letters</i> , 2012, 108, 175501.	2.9	115
107	Three-Dimensional (3D) Bicontinuous Au/Amorphous-Ge Thin Films as Fast and High-Capacity Anodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 281-285.	10.2	115
108	Spatial heterogeneity as the structure feature for structure-property relationship of metallic glasses. <i>Nature Communications</i> , 2018, 9, 3965.	5.8	115

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109	Tracking the sliding of grain boundaries at the atomic scale. <i>Science</i> , 2022, 375, 1261-1265.	6.0	115
110	Regulating Infrared Photoresponses in Reduced Graphene Oxide Phototransistors by Defect and Atomic Structure Control. <i>ACS Nano</i> , 2013, 7, 6310-6320.	7.3	112
111	Surface coating of lithium-manganese-rich layered oxides with delaminated MnO ₂ nanosheets as cathode materials for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4422.	5.2	112
112	First-Order Liquid-Liquid Phase Transition in Cerium. <i>Physical Review Letters</i> , 2013, 110, 125503.	2.9	111
113	Correlation between Chemical Dopants and Topological Defects in Catalytically Active Nanoporous Graphene. <i>Advanced Materials</i> , 2016, 28, 10644-10651.	11.1	110
114	New twinning route in face-centered cubic nanocrystalline metals. <i>Nature Communications</i> , 2017, 8, 2142.	5.8	110
115	Myotube formation on gelatin nanofibers Multi-walled carbon nanotubes hybrid scaffolds. <i>Biomaterials</i> , 2014, 35, 6268-6277.	5.7	109
116	Atomic Observation of Catalysis-Induced Nanopore Coarsening of Nanoporous Gold. <i>Nano Letters</i> , 2014, 14, 1172-1177.	4.5	109
117	High Strength and Good Ductility of Bulk Quasicrystalline Base Alloys in Zr ₆₅ Al _{7.5} Ni ₁₀ Cu _{17.5} System. <i>Materials Transactions, JIM</i> , 1999, 40, 1137-1143.		
118	Ultrastable Silicon Anode by Three-Dimensional Nanoarchitecture Design. <i>ACS Nano</i> , 2020, 14, 4374-4382.	7.3	107
119	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.	1.3	104
120	Understanding sodium-ion diffusion in layered P2 and P3 oxides via experiments and first-principles calculations: a bridge between crystal structure and electrochemical performance. <i>NPG Asia Materials</i> , 2016, 8, e266-e266.	3.8	101
121	Chemical Vapor Deposition of Monolayer Mo _{1-x} W _x S ₂ Crystals with Tunable Band Gaps. <i>Scientific Reports</i> , 2016, 6, 21536.	1.6	101
122	Promoted oxygen reduction kinetics on nitrogen-doped hierarchically porous carbon by engineering proton-feeding centers. <i>Energy and Environmental Science</i> , 2020, 13, 2849-2855.	15.6	101
123	Three-dimensional bicontinuous nanoporous Au/polyaniline hybrid films for high-performance electrochemical supercapacitors. <i>Journal of Power Sources</i> , 2012, 197, 325-329.	4.0	100
124	Coral-Shaped MoS ₂ Decorated with Graphene Quantum Dots Performing as a Highly Active Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3653-3660.	4.0	98
125	Nanoporous metal by dealloying for electrochemical energy conversion and storage. <i>MRS Bulletin</i> , 2018, 43, 43-48.	1.7	96
126	Periosteum-Mimetic Structures Made from Freestanding Microgrooved Nanosheets. <i>Advanced Materials</i> , 2014, 26, 3290-3296.	11.1	94

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127	A High-Capacity, Low-Cost Layered Sodium Manganese Oxide Material as Cathode for Sodium-Ion Batteries. <i>ChemSusChem</i> , 2014, 7, 2115-2119.	3.6	93
128	Nucleation of shear bands in amorphous alloys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3938-3942.	3.3	93
129	Dispersing Pt atoms onto nanoporous gold for high performance direct formic acid fuel cells. <i>Chemical Science</i> , 2014, 5, 403-409.	3.7	93
130	Macrodeformation Twins in Single-Crystal Aluminum. <i>Physical Review Letters</i> , 2016, 116, 075501.	2.9	92
131	Microstructural characterization of boron-rich boron carbide. <i>Acta Materialia</i> , 2017, 136, 202-214.	3.8	91
132	Structure and mechanical properties of boron-rich boron carbides. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4514-4523.	2.8	89
133	Nanoporous metal based flexible asymmetric pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10910-10916.	5.2	87
134	Evolution of structural and dynamic heterogeneities and activation energy distribution of deformation units in metallic glass. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	86
135	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
136	Visualizing Under-Coordinated Surface Atoms on 3D Nanoporous Gold Catalysts. <i>Advanced Materials</i> , 2016, 28, 1753-1759.	11.1	85
137	High-energy-density nonaqueous MnO ₂ @nanoporous gold based supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9202.	5.2	84
138	Enhanced Superconductivity in Restacked TaS ₂ Nanosheets. <i>Journal of the American Chemical Society</i> , 2017, 139, 4623-4626.	6.6	84
139	Precipitation of icosahedral phase from a supercooled liquid region in Zr ₆₅ Cu _{7.5} Al _{7.5} Ni ₁₀ Ag ₁₀ metallic glass. <i>Applied Physics Letters</i> , 1999, 75, 3497-3499.	1.5	82
140	Aerobic oxidation of alcohols in the liquid phase with nanoporous gold catalysts. <i>Chemical Communications</i> , 2012, 48, 4540.	2.2	82
141	Hybrid nanostructured aluminum alloy with super-high strength. <i>NPG Asia Materials</i> , 2015, 7, e229-e229.	3.8	82
142	Liquid-Gated Ambipolar Transport in Ultrathin Films of a Topological Insulator Bi ₂ Te ₃ . <i>Nano Letters</i> , 2011, 11, 2601-2605.	4.5	81
143	Ferritic Alloys with Extreme Creep Resistance via Coherent Hierarchical Precipitates. <i>Scientific Reports</i> , 2015, 5, 16327.	1.6	80
144	Ductile quasicrystalline alloys. <i>Applied Physics Letters</i> , 2000, 76, 967-969.	1.5	79

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145	Unusually Small Electrical Resistance of Three-Dimensional Nanoporous Gold in External Magnetic Fields. <i>Physical Review Letters</i> , 2008, 101, 166601.	2.9	79
146	Characteristic Length and Temperature Dependence of Surface Enhanced Raman Scattering of Nanoporous Gold. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10956-10961.	1.5	79
147	A nanoscale co-precipitation approach for property enhancement of Fe-base alloys. <i>Scientific Reports</i> , 2013, 3, 1327.	1.6	79
148	Ultra-Large Room-Temperature Compressive Plasticity of a Nanocrystalline Metal. <i>Nano Letters</i> , 2007, 7, 2108-2111.	4.5	78
149	Extraordinary tensile strength and ductility of scalable nanoporous graphene. <i>Science Advances</i> , 2019, 5, eaat6951.	4.7	78
150	Epitaxial Casting of Nanotubular Mesoporous Platinum. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4002-4006.	7.2	77
151	Correlation between structural relaxation and shear transformation zone volume of a bulk metallic glass. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	77
152	Observation of superconductivity in $1T\text{-MoS}_2$ nanosheets. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10855-10860.	2.7	77
153	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.	3.8	75
154	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, .	1.5	75
155	Size Effects in the Mechanical Properties of Bulk Bicontinuous Ta/Cu Nanocomposites Made by Liquid Metal Dealloying. <i>Advanced Engineering Materials</i> , 2016, 18, 46-50.	1.6	75
156	The atomic origin of nickel-doping-induced catalytic enhancement in MoS_2 for electrochemical hydrogen production. <i>Nanoscale</i> , 2019, 11, 7123-7128.	2.8	75
157	Coupling between chemical and dynamic heterogeneities in a multicomponent bulk metallic glass. <i>Physical Review B</i> , 2010, 81, .	1.1	74
158	Asymmetric metal oxide pseudocapacitors advanced by three-dimensional nanoporous metal electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8448.	5.2	74
159	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
160	Grain Boundary Sliding and Amorphization are Responsible for the Reverse Hall-Petch Relation in Superhard Nanocrystalline Boron Carbide. <i>Physical Review Letters</i> , 2018, 121, 145504.	2.9	73
161	Low-Temperature Carbide-Mediated Growth of Bicontinuous Nitrogen-Doped Mesoporous Graphene as an Efficient Oxygen Reduction Electrocatalyst. <i>Advanced Materials</i> , 2018, 30, e1803588.	11.1	73
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