

# Mingwei Chen

## List of Publications by Year in descending order

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399  
papers

55,101  
citations

1231

110  
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224  
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412  
all docs

412  
docs citations

412  
times ranked

45493  
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal scaling law of glass rheology. <i>Nature Materials</i> , 2022, 21, 404-409.	13.3	9
2	Deformation behavior of a nanoporous metallic glass at room temperature. <i>International Journal of Plasticity</i> , 2022, 152, 103232.	4.1	25
3	3D Continuously Porous Graphene for Energy Applications. <i>Advanced Materials</i> , 2022, 34, e2108750.	11.1	53
4	Tracking the sliding of grain boundaries at the atomic scale. <i>Science</i> , 2022, 375, 1261-1265.	6.0	115
5	Metal-carbide eutectics with multiprincipal elements make superrefractory alloys. <i>Science Advances</i> , 2022, 8, .	4.7	17
6	In situ atomic-scale observation of dislocation climb and grain boundary evolution in nanostructured metal. <i>Nature Communications</i> , 2022, 13, .	5.8	22
7	Graphene-coated nanoporous nickel towards a metal-catalyzed oxygen evolution reaction. <i>Nanoscale</i> , 2021, 13, 10916-10924.	2.8	13
8	Dislocation-mediated shear amorphization in boron carbide. <i>Science Advances</i> , 2021, 7, .	4.7	49
9	3D Bimodal Porous Amorphous Carbon with Self-Similar Porosity by Low-Temperature Sequential Chemical Dealloying. <i>Chemistry of Materials</i> , 2021, 33, 1013-1021.	3.2	11
10	Vapor phase dealloying kinetics of MnZn alloys. <i>Acta Materialia</i> , 2021, 212, 116916.	3.8	19
11	Hidden Effects of Negative Stacking Fault Energies in Complex Concentrated Alloys. <i>Physical Review Letters</i> , 2021, 126, 255502.	2.9	18
12	Decoupling between calorimetric and dynamical glass transitions in high-entropy metallic glasses. <i>Nature Communications</i> , 2021, 12, 3843.	5.8	24
13	Effect of Local Atomic Structure on Sodium Ion Storage in Hard Amorphous Carbon. <i>Nano Letters</i> , 2021, 21, 6504-6510.	4.5	37
14	Fast attenuation of high-frequency acoustic waves in bicontinuous nanoporous gold. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	2
15	Twisting of 2D Kagomé Sheets in Layered Intermetallics. <i>ACS Central Science</i> , 2021, 7, 1381-1390.	5.3	14
16	Atomic Ni and Cu co-anchored 3D nanoporous graphene as an efficient oxygen reduction electrocatalyst for zinc-air batteries. <i>Nanoscale</i> , 2021, 13, 10862-10870.	2.8	21
17	Decoupling between Shockley partials and stacking faults strengthens multiprincipal element alloys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	11
18	Inlaid $\text{ReS}_2$ Quantum Dots in Monolayer $\text{MoS}_2$ . <i>ACS Nano</i> , 2020, 14, 899-906.	7.3	19

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19	High-Resolution Electrochemical Mapping of the Hydrogen Evolution Reaction on Transition-Metal Dichalcogenide Nanosheets. <i>Angewandte Chemie</i> , 2020, 132, 3629-3636.	1.6	11
20	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
21	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
22	Hyperpolarized Xe NMR signal advancement by metal-organic framework entrapment in aqueous solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17558-17563.	3.3	175
23	Dirac Fermion Kinetics in 3D Curved Graphene. <i>Advanced Materials</i> , 2020, 32, e2005838.	11.1	24
24	Structures and Structural Evolution of Sublayer Surfaces of Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2020, 132, 21603-21608.	1.6	2
25	Twisted 1T TaS <sub>2</sub> bilayers by lithiation exfoliation. <i>Nanoscale</i> , 2020, 12, 18031-18038.	2.8	3
26	Exploring the oxygen electrode bi-functional activity of Ni-C-doped graphene systems with N, C co-ordination and OH ligand effects. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20453-20462.	5.2	49
27	Catalytic oxidation mechanisms of carbon monoxide over single- and double-vacancy Mn-embedded graphene. <i>New Journal of Chemistry</i> , 2020, 44, 9402-9410.	1.4	22
28	Theoretical Study on a Nitrogen-Doped Graphene Nanoribbon with Edge Defects as the Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Omega</i> , 2020, 5, 5142-5149.	1.6	27
29	Ultrastable Silicon Anode by Three-Dimensional Nanoarchitecture Design. <i>ACS Nano</i> , 2020, 14, 4374-4382.	7.3	107
30	Synergetic Effect of Liquid and Solid Catalysts on the Energy Efficiency of Li-O <sub>2</sub> Batteries: Cell Performances and Operando STEM Observations. <i>Nano Letters</i> , 2020, 20, 2183-2190.	4.5	11
31	Dealloying Kinetics of AgAu Nanoparticles by <i>In Situ</i> Liquid-Cell Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , 2020, 20, 1944-1951.	4.5	47
32	Van der Waals interfacial reconstruction in monolayer transition-metal dichalcogenides and gold heterojunctions. <i>Nature Communications</i> , 2020, 11, 1011.	5.8	47
33	Evaluating the catalytic activity of transition metal dimers for the oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2020, 568, 54-62.	5.0	41
34	Zinc-Mediated Template Synthesis of Fe-N-C Electrocatalysts with Densely Accessible Fe Active Sites for Efficient Oxygen Reduction. <i>Advanced Materials</i> , 2020, 32, e1907399.	11.1	319
35	The interaction of deformation twins with long-period stacking ordered precipitates in a magnesium alloy subjected to shock loading. <i>Acta Materialia</i> , 2020, 188, 203-214.	3.8	31
36	Spin-orbit torque generated by a ferromagnet/a metallic glass bilayer. <i>Applied Physics Express</i> , 2020, 13, 053002.	1.1	1

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37	Scalable synthesis of nanoporous boron for high efficiency ammonia electrosynthesis. <i>Materials Today</i> , 2020, 38, 58-66.	8.3	29
38	Chemical doping induced zone-edge phonon renormalization in single-layer $\text{MoS}_2$ . <i>Physical Review B</i> , 2019, 100, .	1.1	13
39	Experimental observations of the mechanisms associated with the high hardening and low strain to failure of magnesium. <i>Materialia</i> , 2019, 8, 100504.	1.3	13
40	Operando Observations of SEI Film Evolution by Mass-Sensitive Scanning Transmission Electron Microscopy. <i>Advanced Energy Materials</i> , 2019, 9, 1902675.	10.2	64
41	Unprecedented Electromagnetic Interference Shielding from Three-Dimensional Bi-continuous Nanoporous Graphene. <i>Matter</i> , 2019, 1, 1077-1087.	5.0	53
42	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
43	3D bicontinuous nanoporous plasmonic heterostructure for enhanced hydrogen evolution reaction under visible light. <i>Nano Energy</i> , 2019, 58, 552-559.	8.2	29
44	A Phthalocyanine-Based Layered Two-Dimensional Conjugated Metal-Organic Framework as a Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2019, 131, 10787-10792.	1.6	58
45	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
46	High-temperature bulk metallic glasses developed by combinatorial methods. <i>Nature</i> , 2019, 569, 99-103.	13.7	185
47	The atomic origin of nickel-doping-induced catalytic enhancement in $\text{MoS}_2$ for electrochemical hydrogen production. <i>Nanoscale</i> , 2019, 11, 7123-7128.	2.8	75
48	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
49	Room-temperature superplasticity in Au nanowires and their atomistic mechanisms. <i>Nanoscale</i> , 2019, 11, 8727-8735.	2.8	9
50	Capturing Reversible Cation Migration in Layered Structure Materials for Na-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900189.	10.2	41
51	Extraordinary tensile strength and ductility of scalable nanoporous graphene. <i>Science Advances</i> , 2019, 5, eaat6951.	4.7	78
52	Fast coalescence of metallic glass nanoparticles. <i>Nature Communications</i> , 2019, 10, 5249.	5.8	37
53	Flexible supercapacitor electrodes fabricated by dealloying nanocrystallized Al-Ni-Co-Y-Cu metallic glasses. <i>Journal of Alloys and Compounds</i> , 2019, 772, 164-172.	2.8	26
54	Atomic structure and mechanical response of coincident stacking faults in boron suboxide. <i>Materials Research Letters</i> , 2019, 7, 75-81.	4.1	5

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55	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
56	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
57	Free-standing nanoporous gold for direct plasmon enhanced electro-oxidation of alcohol molecules. <i>Nano Energy</i> , 2019, 56, 286-293.	8.2	48
58	Flaw-free nanoporous Ni for tensile properties. <i>Acta Materialia</i> , 2019, 166, 402-412.	3.8	25
59	Three-Dimensional Nanoporous Co <sub>9</sub> S <sub>4</sub> P <sub>4</sub> Pentlandite as a Bifunctional Electrocatalyst for Overall Neutral Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 3880-3888.	4.0	73
60	Vapor phase dealloying: A versatile approach for fabricating 3D porous materials. <i>Acta Materialia</i> , 2019, 163, 161-172.	3.8	45
61	Atomic origins of high electrochemical CO <sub>2</sub> reduction efficiency on nanoporous gold. <i>Nanoscale</i> , 2018, 10, 8372-8376.	2.8	46
62	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
63	Reversible anionic redox activity in Na <sub>3</sub> RuO <sub>4</sub> cathodes: a prototype Na-rich layered oxide. <i>Energy and Environmental Science</i> , 2018, 11, 299-305.	15.6	126
64	Three-dimensional bicontinuous nanoporous materials by vapor phase dealloying. <i>Nature Communications</i> , 2018, 9, 276.	5.8	123
65	Synthesizing 1T <sup>1H</sup> Two-Phase Mo <sub>1</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
66	Three-dimensional porous graphene networks expand graphene-based electronic device applications. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6024-6033.	1.3	43
67	Nanoporous metal by dealloying for electrochemical energy conversion and storage. <i>MRS Bulletin</i> , 2018, 43, 43-48.	1.7	96
68	Bilayered nanoporous graphene/molybdenum oxide for high rate lithium ion batteries. <i>Nano Energy</i> , 2018, 45, 273-279.	8.2	54
69	Three-Dimensional Nanoporous Heterojunction of Monolayer MoS <sub>2</sub> @rGO for Photoenhanced Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018, 1, 2183-2191.	2.5	27
70	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
71	Anisotropic and Multicomponent Nanostructures by Controlled Symmetry Breaking of Metal Halide Intermediates. <i>Nano Letters</i> , 2018, 18, 2324-2328.	4.5	4
72	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

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73	Scanning distortion correction in STEM images. <i>Ultramicroscopy</i> , 2018, 184, 274-283.	0.8	23
74	Graphene-based quasi-solid-state lithium-oxygen batteries with high energy efficiency and a long cycling lifetime. <i>NPG Asia Materials</i> , 2018, 10, 1037-1045.	3.8	35
75	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
76	Spatial heterogeneity as the structure feature for structure-property relationship of metallic glasses. <i>Nature Communications</i> , 2018, 9, 3965.	5.8	115
77	One-Dimensional Atomic Segregation at Semiconductor-Metal Interfaces of Polymorphic Transition Metal Dichalcogenide Monolayers. <i>Nano Letters</i> , 2018, 18, 6157-6163.	4.5	4
78	Distortion of Local Atomic Structures in Amorphous Ge-Sb-Te Phase Change Materials. <i>Physical Review Letters</i> , 2018, 120, 205502.	2.9	35
79	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
80	Locating Si atoms in Si-doped boron carbide: A route to understand amorphization mitigation mechanism. <i>Acta Materialia</i> , 2018, 157, 106-113.	3.8	42
81	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie</i> , 2018, 130, 13486-13491.	1.6	10
82	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
83	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
84	A Rapid Method to Aromatic Aminoalkyl Esters via the Catalyst-Free Difunctionalization of C-N Bonds. <i>Synthesis</i> , 2018, 50, 2587-2594.	1.2	3
85	Hierarchical Nanoporous Copper Fabricated by One-Step Dealloying Toward Ultrasensitive Surface-Enhanced Raman Sensing. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800332.	1.9	22
86	Macroporous mesh of nanoporous gold in electrochemical monitoring of superoxide release from skeletal muscle cells. <i>Biosensors and Bioelectronics</i> , 2017, 88, 41-47.	5.3	27
87	Coral-Shaped MoS <sub>2</sub> Decorated with Graphene Quantum Dots Performing as a Highly Active Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 3653-3660.	4.0	98
88	Preferred location for conducting filament formation in thin-film nano-ionic electrolyte: study of microstructure by atom-probe tomography. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 6846-6851.	1.1	3
89	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
90	Ultrastrong steel via minimal lattice misfit and high-density nanoprecipitation. <i>Nature</i> , 2017, 544, 460-464.	13.7	843

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91	Characterization of Cd-rich precipitates in a fully lamellar TiAl alloy. Scripta Materialia, 2017, 137, 50-54.	2.6	14
92	Tunable Nanoporous Metallic Glasses Fabricated by Selective Phase Dissolution and Passivation for Ultrafast Hydrogen Uptake. Chemistry of Materials, 2017, 29, 4478-4483.	3.2	38
93	Full Performance Nanoporous Graphene Based Li <sub>2</sub> O Batteries through Solution Phase Oxygen Reduction and Redox Mediated Li <sub>2</sub> O <sub>2</sub> Oxidation. Advanced Energy Materials, 2017, 7, 1601933.	10.2	65
94	Efficient hydrogen production on MoNi <sub>4</sub> electrocatalysts with fast water dissociation kinetics. Nature Communications, 2017, 8, 15437.	5.8	813
95	High-quality single-layer nanosheets of MS <sub>2</sub> (M = Mo, Nb, Ta, Ti) directly exfoliated from AMS <sub>2</sub> (A = Li, Na, K) crystals. Journal of Materials Chemistry C, 2017, 5, 5977-5983.	2.7	35
96	Structure and mechanical properties of boron-rich boron carbides. Journal of the European Ceramic Society, 2017, 37, 4514-4523.	2.8	89
97	Primary and secondary precipitates in a hierarchical-precipitate-strengthened ferritic alloy. Journal of Alloys and Compounds, 2017, 706, 584-588.	2.8	15
98	Terahertz and mid-infrared plasmons in three-dimensional nanoporous graphene. Nature Communications, 2017, 8, 14885.	5.8	58
99	Structure and viscosity of phase-separated BaO-SiO <sub>2</sub> glasses. Journal of the American Ceramic Society, 2017, 100, 1982-1993.	1.9	20
100	Enhanced Superconductivity in Restacked TaS <sub>2</sub> Nanosheets. Journal of the American Chemical Society, 2017, 139, 4623-4626.	6.6	84
101	Observation of superconductivity in 1T <sup>-2</sup> -MoS <sub>2</sub> nanosheets. Journal of Materials Chemistry C, 2017, 5, 10855-10860.	2.7	77
102	Engineering the internal surfaces of three-dimensional nanoporous catalysts by surfactant-modified dealloying. Nature Communications, 2017, 8, 1066.	5.8	69
103	Chemical Selectivity at Grain Boundary Dislocations in Monolayer Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> Transition Metal Dichalcogenides. ACS Applied Materials & Interfaces, 2017, 9, 29438-29444.	4.0	10
104	Direct Observations of the Formation and Redox Mediator-Assisted Decomposition of Li <sub>2</sub> O <sub>2</sub> in a Liquid Cell Li <sup>+</sup> O <sub>2</sub> Microbattery by Scanning Transmission Electron Microscopy. Advanced Materials, 2017, 29, 1702752.	11.1	41
105	Tuning Surface Structure of 3D Nanoporous Gold by Surfactant-Free Electrochemical Potential Cycling. Advanced Materials, 2017, 29, 1703601.	11.1	54
106	Two-Dimensional Hallmark of Highly Interconnected Three-Dimensional Nanoporous Graphene. ACS Omega, 2017, 2, 3691-3697.	1.6	32
107	Stability limits and transformation pathways of $\alpha$ -quartz under high pressure. Physical Review B, 2017, 95, .	1.1	15
108	Environmentally stable interface of layered oxide cathodes for sodium-ion batteries. Nature Communications, 2017, 8, 135.	5.8	218

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109	Correlation between Local Structure Order and Spatial Heterogeneity in a Metallic Glass. <i>Physical Review Letters</i> , 2017, 119, 215501.	2.9	116
110	Superhard B <sub>2</sub> CO phases derived from carbon allotropes. <i>RSC Advances</i> , 2017, 7, 52192-52199.	1.7	12
111	Transparent magnetic semiconductor with embedded metallic glass nano-granules. <i>Materials and Design</i> , 2017, 132, 208-214.	3.3	16
112	Microstructural characterization of boron-rich boron carbide. <i>Acta Materialia</i> , 2017, 136, 202-214.	3.8	91
113	A nanoporous nickel catalyst for selective hydrogenation of carbonates into formic acid in water. <i>Green Chemistry</i> , 2017, 19, 716-721.	4.6	46
114	Mechanical properties of refractory high-entropy alloys: Experiments and modeling. <i>Journal of Alloys and Compounds</i> , 2017, 696, 1139-1150.	2.8	307
115	New twinning route in face-centered cubic nanocrystalline metals. <i>Nature Communications</i> , 2017, 8, 2142.	5.8	110
116	Effect of Chemical Doping on Cathodic Performance of Bicontinuous Nanoporous Graphene for Li <sup>+</sup> /O <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1501870.	10.2	132
117	3D Bicontinuous Nanoporous Reduced Graphene Oxide for Highly Sensitive Photodetectors. <i>Advanced Functional Materials</i> , 2016, 26, 1271-1277.	7.8	48
118	Valence band electronic structure evolution of graphene oxide upon thermal annealing for optoelectronics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2380-2386.	0.8	13
119	Graphene@Nanoporous Nickel Cathode for Li <sup>+</sup> /O <sub>2</sub> Batteries. <i>ChemNanoMat</i> , 2016, 2, 176-181.	1.5	12
120	3D Nanoporous Metal Phosphides toward High Efficiency Electrochemical Hydrogen Production. <i>Advanced Materials</i> , 2016, 28, 2951-2955.	11.1	163
121	A room-temperature magnetic semiconductor from a ferromagnetic metallic glass. <i>Nature Communications</i> , 2016, 7, 13497.	5.8	71
122	Intrinsic correlation between $\beta$ -relaxation and spatial heterogeneity in a metallic glass. <i>Nature Communications</i> , 2016, 7, 11516.	5.8	197
123	Metallic Glasses. <i>SpringerBriefs in the Mathematics of Materials</i> , 2016, , 9-14.	0.3	0
124	Versatile nanoporous bimetallic phosphides towards electrochemical water splitting. <i>Energy and Environmental Science</i> , 2016, 9, 2257-2261.	15.6	535
125	Earth Abundant and Durable Nanoporous Catalyst for Exhaust Gas Conversion. <i>Advanced Functional Materials</i> , 2016, 26, 1609-1616.	7.8	18
126	Electric Properties of Dirac Fermions Captured into 3D Nanoporous Graphene Networks. <i>Advanced Materials</i> , 2016, 28, 10304-10310.	11.1	47



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127	Correlation between Chemical Dopants and Topological Defects in Catalytically Active Nanoporous Graphene. <i>Advanced Materials</i> , 2016, 28, 10644-10651.	11.1	110
128	An ultrahigh volumetric capacitance of squeezable three-dimensional bicontinuous nanoporous graphene. <i>Nanoscale</i> , 2016, 8, 18551-18557.	2.8	13
129	Initial Atomic Motion Immediately Following Femtosecond-Laser Excitation in Phase-Change Materials. <i>Physical Review Letters</i> , 2016, 117, 135501.	2.9	45
130	Atomic-Sized Pores Enhanced Electrocatalysis of TaS <sub>2</sub> Nanosheets for Hydrogen Evolution. <i>Advanced Materials</i> , 2016, 28, 8945-8949.	11.1	167
131	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
132	Structural evolution of nanoscale metallic glasses during high-pressure torsion: A molecular dynamics analysis. <i>Scientific Reports</i> , 2016, 6, 36627.	1.6	21
133	Chemical Vapor Deposition of Monolayer Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> Crystals with Tunable Band Gaps. <i>Scientific Reports</i> , 2016, 6, 21536.	1.6	101
134	Engineering water dissociation sites in MoS <sub>2</sub> nanosheets for accelerated electrocatalytic hydrogen production. <i>Energy and Environmental Science</i> , 2016, 9, 2789-2793.	15.6	503
135	Hierarchical nanoporosity enhanced reversible capacity of bicontinuous nanoporous metal based Li-O <sub>2</sub> battery. <i>Scientific Reports</i> , 2016, 6, 33466.	1.6	52
136	Nucleation of amorphous shear bands at nanotwins in boron suboxide. <i>Nature Communications</i> , 2016, 7, 11001.	5.8	43
137	Unveiling Three-Dimensional Stacking Sequences of 1T Phase MoS <sub>2</sub> Monolayers by Electron Diffraction. <i>ACS Nano</i> , 2016, 10, 10308-10316.	7.3	21
138	Atomic-scale disproportionation in amorphous silicon monoxide. <i>Nature Communications</i> , 2016, 7, 11591.	5.8	138
139	Structure Analysis of Amorphous Materials Using a STEM Electron Diffraction Method. <i>Materia Japan</i> , 2016, 55, 8-14.	0.1	1
140	Nanotwinned Boron Suboxide (B <sub>6</sub> O): New Ground State of B <sub>6</sub> O. <i>Nano Letters</i> , 2016, 16, 4236-4242.	4.5	42
141	Online Monitoring of Superoxide Anions Released from Skeletal Muscle Cells Using an Electrochemical Biosensor Based on Thick-Film Nanoporous Gold. <i>ACS Sensors</i> , 2016, 1, 921-928.	4.0	27
142	Visualizing Under-Coordinated Surface Atoms on 3D Nanoporous Gold Catalysts. <i>Advanced Materials</i> , 2016, 28, 1753-1759.	11.1	85
143	Atomistic mechanism of nano-scale phase separation in fcc-based high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2016, 663, 340-344.	2.8	16
144	Bicontinuous nanotubular graphene-polypyrrole hybrid for high performance flexible supercapacitors. <i>Nano Energy</i> , 2016, 19, 391-400.	8.2	137

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145	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
146	Macrodeformation Twins in Single-Crystal Aluminum. <i>Physical Review Letters</i> , 2016, 116, 075501.	2.9	92
147	Non-aqueous nanoporous gold based supercapacitors with high specific energy. <i>Scripta Materialia</i> , 2016, 116, 76-81.	2.6	22
148	Large-scale growth of sharp gold nano-cones for single-molecule SERS detection. <i>RSC Advances</i> , 2016, 6, 2882-2887.	1.7	36
149	A precipitation-hardened high-entropy alloy with outstanding tensile properties. <i>Acta Materialia</i> , 2016, 102, 187-196.	3.8	1,665
150	On-chip Micro-supercapacitors for Ultrahigh Energy and Power Delivery. <i>Advanced Science</i> , 2015, 2, 1500067.	5.6	66
151	Nanoporous Metal Papers for Scalable Hierarchical Electrode. <i>Advanced Science</i> , 2015, 2, 1500086.	5.6	26
152	Ferritic Alloys with Extreme Creep Resistance via Coherent Hierarchical Precipitates. <i>Scientific Reports</i> , 2015, 5, 16327.	1.6	80
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