

Pan Liu

List of Publications by Year in descending order

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40473
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Fluoride-Substituted Layered Perovskites ZnMoO ₄ with an Enhanced Photocatalytic Activity. ACS Applied Materials & Interfaces, 2023, 15, 43251-43258.	8.0	4
2	Ultrafast Single-Crystal-to-Single-Crystal Transformation from Metal-Organic Framework to 2D Hydroxide. Advanced Materials, 2022, 34, e2106400.	21.0	11
3	Anionic Redox Regulated via Metal-Ligand Combinations in Layered Sulfides. Advanced Materials, 2022, 34, e2107353.	21.0	11
4	Universal scaling law of glass rheology. Nature Materials, 2022, 21, 404-409.	27.5	9
5	Deformation behavior of a nanoporous metallic glass at room temperature. International Journal of Plasticity, 2022, 152, 103232.	8.8	25
6	3D Continuously Porous Graphene for Energy Applications. Advanced Materials, 2022, 34, e2108750.	21.0	53
7	Tracking the sliding of grain boundaries at the atomic scale. Science, 2022, 375, 1261-1265.	12.6	115
8	The Universal Growth of Ultrathin Perovskite Single Crystals. Advanced Materials, 2022, 34, e2108396.	21.0	11
9	Copper-involved highly efficient oxygen reduction reaction in both alkaline and acidic media. Chemical Engineering Journal, 2022, 437, 135377.	12.7	25
10	Highly accessible and dense surface single metal FeN ₄ active sites for promoting the oxygen reduction reaction. Energy and Environmental Science, 2022, 15, 2619-2628.	30.8	82
11	Core-Shell Structured Fe-N-C Catalysts with Enriched Iron Sites in Surface Layers for Proton-Exchange Membrane Fuel Cells. ACS Catalysis, 2022, 12, 6409-6417.	11.2	19
12	Nanoindentation investigation of incoherent twin boundary migration in Au nanocrystalline films. Materials Characterization, 2022, 190, 112018.	4.4	3
13	In situ atomic-scale observation of dislocation climb and grain boundary evolution in nanostructured metal. Nature Communications, 2022, 13, .	12.8	22
14	Vacancy-driven shear localization in silicon nitride. Scripta Materialia, 2021, 190, 163-167.	5.2	1
15	Enhanced pseudocapacitive energy storage of oxides grown on nanoporous alloys by solid solution. Chemical Engineering Journal, 2021, 405, 126632.	12.7	6
16	Visualizing the {110} surface structure of equilibrium-form ZIF-8 crystals by low-dose Cs-corrected TEM. Nanoscale, 2021, 13, 13215-13219.	5.6	5
17	Graphene-coated nanoporous nickel towards a metal-catalyzed oxygen evolution reaction. Nanoscale, 2021, 13, 10916-10924.	5.6	13
18	Atomic-level-designed copper atoms on hierarchically porous gold architectures for high-efficiency electrochemical CO ₂ reduction. Science China Materials, 2021, 64, 1900-1909.	6.3	26

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19	Dislocation-mediated shear amorphization in boron carbide. <i>Science Advances</i> , 2021, 7, .	10.3	49
20	3D Bimodal Porous Amorphous Carbon with Self-Similar Porosity by Low-Temperature Sequential Chemical Dealloying. <i>Chemistry of Materials</i> , 2021, 33, 1013-1021.	6.7	11
21	Vapor phase dealloying kinetics of MnZn alloys. <i>Acta Materialia</i> , 2021, 212, 116916.	7.9	19
22	Hidden Effects of Negative Stacking Fault Energies in Complex Concentrated Alloys. <i>Physical Review Letters</i> , 2021, 126, 255502.	7.8	18
23	Effect of femtosecond laser irradiation on yield strength of nanoporous silver materials. <i>Materials Letters</i> , 2021, 294, 129800.	2.6	0
24	Fast attenuation of high-frequency acoustic waves in bicontinuous nanoporous gold. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	2
25	The effect of nano-silica on the properties of magnesium oxychloride cement. <i>Advances in Cement Research</i> , 2021, 33, 413-422.	1.6	0
26	Hybridized intercalation of CoMoS ₄ in interlayer-expanded cobalt-LMO nanosheets as high active bifunctional catalysts in Zn-air battery. <i>Electrochimica Acta</i> , 2021, 391, 138980.	5.2	4
27	2D Nanosheets of Mo ₂ C/CoMoS ₄ as Active Electrocatalyst for Water Splitting. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100377.	1.8	4
28	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.	5.6	21
29	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, .	7.1	11
30	A high-performance layered Cr-Based cathode for sodium-ion batteries. <i>Nano Energy</i> , 2020, 67, 104215.	16.0	40
31	Nanoporous Au-Sn with solute strain for simultaneously enhanced selectivity and durability during electrochemical CO ₂ reduction. <i>Journal of Materials Science and Technology</i> , 2020, 43, 154-160.	10.7	13
32	Inlaid ReS ₂ Quantum Dots in Monolayer MoS ₂ . <i>ACS Nano</i> , 2020, 14, 899-906.	14.6	19
33	High-Resolution Electrochemical Mapping of the Hydrogen Evolution Reaction on Transition-Metal Dichalcogenide Nanosheets. <i>Angewandte Chemie</i> , 2020, 132, 3629-3636.	2.0	11
34	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
35	Dual-Metal Interbonding as the Chemical Facilitator for Single-Atom Dispersions. <i>Advanced Materials</i> , 2020, 32, e2003484.	21.0	90
36	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.	30.8	101

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37	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.	7.1	175
38	Monolithic Nanoporous Zn Anode for Rechargeable Alkaline Batteries. ACS Nano, 2020, 14, 2404-2411.	14.6	64
39	Electron beam irradiation enhanced varistor properties in ZnO nanowire. Applied Physics Letters, 2020, 117, .	3.3	9
40	Structures and Structural Evolution of Sublayer Surfaces of Metal-Organic Frameworks. Angewandte Chemie - International Edition, 2020, 59, 21419-21424.	13.8	18
41	Dirac Fermion Kinetics in 3D Curved Graphene. Advanced Materials, 2020, 32, e2005838.	21.0	24
42	Iron clusters boosted performance in electrocatalytic carbon dioxide conversion. Journal of Materials Chemistry A, 2020, 8, 21661-21667.	10.3	8
43	Structures and Structural Evolution of Sublayer Surfaces of Metal-Organic Frameworks. Angewandte Chemie, 2020, 132, 21603-21608.	2.0	2
44	Twisted 1T TaS ₂ bilayers by lithiation exfoliation. Nanoscale, 2020, 12, 18031-18038.	5.6	3
45	Dynamic active-site generation of atomic iridium stabilized on nanoporous metal phosphides for water oxidation. Nature Communications, 2020, 11, 2701.	12.8	204
46	Solid solution softening in a Al _{0.1} CoCrFeMnNi high-entropy alloy. Scripta Materialia, 2020, 186, 63-68.	5.2	15
47	Adsorbate-Mediated Deposition of Noble-Metal Nanoparticles on Carbon Substrates for Electrocatalysis. ACS Applied Energy Materials, 2020, 3, 6460-6465.	5.1	5
48	Ultrastable Silicon Anode by Three-Dimensional Nanoarchitecture Design. ACS Nano, 2020, 14, 4374-4382.	14.6	107
49	Synergetic Effect of Liquid and Solid Catalysts on the Energy Efficiency of Li-O ₂ Batteries: Cell Performances and Operando STEM Observations. Nano Letters, 2020, 20, 2183-2190.	9.1	11
50	Dealloying Kinetics of AgAu Nanoparticles by <i>In Situ</i> Liquid-Cell Scanning Transmission Electron Microscopy. Nano Letters, 2020, 20, 1944-1951.	9.1	47
51	Assembly of 1T-MoS ₂ based fibers for flexible energy storage. Nanoscale, 2020, 12, 6562-6570.	5.6	10
52	Van der Waals interfacial reconstruction in monolayer transition-metal dichalcogenides and gold heterojunctions. Nature Communications, 2020, 11, 1011.	12.8	47
53	Zinc-Mediated Template Synthesis of Fe-Ni Electrocatalysts with Densely Accessible Fe-Ni Active Sites for Efficient Oxygen Reduction. Advanced Materials, 2020, 32, e1907399.	21.0	319
54	The interaction of deformation twins with long-period stacking ordered precipitates in a magnesium alloy subjected to shock loading. Acta Materialia, 2020, 188, 203-214.	7.9	31

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55	Platinum Atoms and Nanoparticles Embedded Porous Carbons for Hydrogen Evolution Reaction. <i>Materials</i> , 2020, 13, 1513.	2.9	7
56	Scalable synthesis of nanoporous boron for high efficiency ammonia electrosynthesis. <i>Materials Today</i> , 2020, 38, 58-66.	14.2	29
57	Self-Supported Nanoporous Gold with Gradient Tin Oxide for Sustainable and Efficient Hydrogen Evolution in Neutral Media. <i>Journal of Renewable Materials</i> , 2020, 8, 133-151.	2.2	4
58	Efficient alkaline hydrogen evolution on atomically dispersed Ni ^x Species anchored porous carbon with embedded Ni nanoparticles by accelerating water dissociation kinetics. <i>Energy and Environmental Science</i> , 2019, 12, 149-156.	30.8	416
59	Observation of superconductivity in pressurized 2M WSe ₂ crystals. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8551-8555.	5.5	23
60	Experimental observations of the mechanisms associated with the high hardening and low strain to failure of magnesium. <i>Materialia</i> , 2019, 8, 100504.	2.7	13
61	Operando Observations of SEI Film Evolution by Mass-Sensitive Scanning Transmission Electron Microscopy. <i>Advanced Energy Materials</i> , 2019, 9, 1902675.	19.5	64
62	Deformation behavior of ultrahard Al _{0.3} CoCrFeNi high-entropy alloy treated by plasma nitriding. <i>Materials Letters</i> , 2019, 255, 126566.	2.6	7
63	Unprecedented Electromagnetic Interference Shielding from Three-Dimensional Bi-continuous Nanoporous Graphene. <i>Matter</i> , 2019, 1, 1077-1087.	10.0	53
64	Anionic redox reaction in layered NaCr ₂ /3Ti ₁ /3S ₂ through electron holes formation and dimerization of S ²⁻ . <i>Nature Communications</i> , 2019, 10, 4458.	12.8	38
65	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.	13.7	227
66	Bioinspired Fe ₃ C@C as Highly Efficient Electrocatalyst for Nitrogen Reduction Reaction under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40062-40068.	8.0	57
67	3D bicontinuous nanoporous plasmonic heterostructure for enhanced hydrogen evolution reaction under visible light. <i>Nano Energy</i> , 2019, 58, 552-559.	16.0	29
68	Direct atomic identification of cation migration induced gradual cubic-to-hexagonal phase transition in Ge ₂ Sb ₂ Te ₅ . <i>Communications Chemistry</i> , 2019, 2, .	4.5	32
69	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.	2.0	58
70	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.	13.8	278
71	The atomic origin of nickel-doping-induced catalytic enhancement in MoS ₂ for electrochemical hydrogen production. <i>Nanoscale</i> , 2019, 11, 7123-7128.	5.6	75
72	Temperature-dependent compression behavior of an Al _{0.5} CoCrCuFeNi high-entropy alloy. <i>Materialia</i> , 2019, 5, 100243.	2.7	16

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73	Atomically dispersed nickel–nitrogen–sulfur species anchored on porous carbon nanosheets for efficient water oxidation. <i>Nature Communications</i> , 2019, 10, 1392.	12.8	424
74	Metal and Nonmetal Codoped 3D Nanoporous Graphene for Efficient Bifunctional Electrocatalysis and Rechargeable Zn–Air Batteries. <i>Advanced Materials</i> , 2019, 31, e1900843.	21.0	236
75	Effects of mixing enthalpy and cooling rate on phase formation of Al _x CoCrCuFeNi high-entropy alloys. <i>Materialia</i> , 2019, 6, 100292.	2.7	40
76	Room-temperature superplasticity in Au nanowires and their atomistic mechanisms. <i>Nanoscale</i> , 2019, 11, 8727-8735.	5.6	9
77	Bent strain values affect the plastic deformation behaviours of twinned Ni NWs. <i>Scripta Materialia</i> , 2019, 167, 1-5.	5.2	6
78	Lithium-Doping Stabilized High-Performance P ₂ Na _{0.66} Li _{0.18} Fe _{0.12} Mn _{0.7} O ₂ Cathode for Sodium Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019, 141, 6680-6689.	13.7	187
79	Capturing Reversible Cation Migration in Layered Structure Materials for Na–Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900189.	19.5	41
80	Nanoporous high-entropy alloys for highly stable and efficient catalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6499-6506.	10.3	215
81	Extraordinary tensile strength and ductility of scalable nanoporous graphene. <i>Science Advances</i> , 2019, 5, eaat6951.	10.3	78
82	3D nanoporous iridium-based alloy microwires for efficient oxygen evolution in acidic media. <i>Nano Energy</i> , 2019, 59, 146-153.	16.0	134
83	Fast coalescence of metallic glass nanoparticles. <i>Nature Communications</i> , 2019, 10, 5249.	12.8	37
84	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.	5.5	26
85	Atomic structure and mechanical response of coincident stacking faults in boron suboxide. <i>Materials Research Letters</i> , 2019, 7, 75-81.	8.7	5
86	Structural Determination and Nonlinear Optical Properties of New 1T-Type MoS ₂ Compound. <i>Journal of the American Chemical Society</i> , 2019, 141, 790-793.	13.7	95
87	Lithiophilic 3D Nanoporous Nitrogen-Doped Graphene for Dendrite-Free and Ultrahigh-Rate Lithium-Metal Anodes. <i>Advanced Materials</i> , 2019, 31, e1805334.	21.0	254
88	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
89	Atomic scale structural characterization of B2 phase precipitated along FCC twin boundary in a CoCrFeNiAl _{0.3} high entropy alloy. <i>Scripta Materialia</i> , 2019, 162, 161-165.	5.2	21
90	Free-standing nanoporous gold for direct plasmon enhanced electro-oxidation of alcohol molecules. <i>Nano Energy</i> , 2019, 56, 286-293.	16.0	48

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91	Lithium intercalation into bilayer graphene. <i>Nature Communications</i> , 2019, 10, 275.	12.8	136
92	Flaw-free nanoporous Ni for tensile properties. <i>Acta Materialia</i> , 2019, 166, 402-412.	7.9	25
93	Three-Dimensional Nanoporous Co ₉ S ₄ P ₄ Pentlandite as a Bifunctional Electrocatalyst for Overall Neutral Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3880-3888.	8.0	73
94	Vapor phase dealloying: A versatile approach for fabricating 3D porous materials. <i>Acta Materialia</i> , 2019, 163, 161-172.	7.9	45
95	Fluorine-Free Synthesis of High-Purity Ti ₃ C ₂ T _x (T=OH, O) via Alkali Treatment. <i>Angewandte Chemie</i> , 2018, 130, 6223-6227.	2.0	459
96	Atomic origins of high electrochemical CO ₂ reduction efficiency on nanoporous gold. <i>Nanoscale</i> , 2018, 10, 8372-8376.	5.6	46
97	Fluorine-Free Synthesis of High-Purity Ti ₃ C ₂ T _x (T=OH, O) via Alkali Treatment. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6115-6119.	13.8	809
98	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
99	Cation-mixing stabilized layered oxide cathodes for sodium-ion batteries. <i>Science Bulletin</i> , 2018, 63, 376-384.	9.0	75
100	Reversible anionic redox activity in Na ₃ RuO ₄ cathodes: a prototype Na-rich layered oxide. <i>Energy and Environmental Science</i> , 2018, 11, 299-305.	30.8	126
101	Three-dimensional bicontinuous nanoporous materials by vapor phase dealloying. <i>Nature Communications</i> , 2018, 9, 276.	12.8	123
102	Accelerated Hydrogen Evolution Kinetics on NiFe-Layered Double Hydroxide Electrocatalysts by Tailoring Water Dissociation Active Sites. <i>Advanced Materials</i> , 2018, 30, 1706279.	21.0	601
103	Synthesizing 1T' 1H Two-Phase Mo ₁ W _x S ₂ Monolayers by Chemical Vapor Deposition. <i>ACS Nano</i> , 2018, 12, 1571-1579.	14.6	62
104	Three-dimensional porous graphene networks expand graphene-based electronic device applications. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6024-6033.	2.8	43
105	Nanoporous metal by dealloying for electrochemical energy conversion and storage. <i>MRS Bulletin</i> , 2018, 43, 43-48.	3.5	96
106	Bilayered nanoporous graphene/molybdenum oxide for high rate lithium ion batteries. <i>Nano Energy</i> , 2018, 45, 273-279.	16.0	54
107	Three-Dimensional Nanoporous Heterojunction of Monolayer MoS ₂ @rGO for Photoenhanced Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018, 1, 2183-2191.	5.1	27
108	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

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109	Controllable defects implantation in MoS ₂ grown by chemical vapor deposition for photoluminescence enhancement. <i>Nano Research</i> , 2018, 11, 4123-4132.	10.4	55
110	Anisotropic and Multicomponent Nanostructures by Controlled Symmetry Breaking of Metal Halide Intermediates. <i>Nano Letters</i> , 2018, 18, 2324-2328.	9.1	4
111	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
112	Transmission electron microscopy characterization of dislocation structure in a face-centered cubic high-entropy alloy Al _{0.1} CoCrFeNi. <i>Acta Materialia</i> , 2018, 144, 107-115.	7.9	187
113	Quantum Dots of 1T Phase Transitional Metal Dichalcogenides Generated <i>via</i> Electrochemical Li Intercalation. <i>ACS Nano</i> , 2018, 12, 308-316.	14.6	110
114	Structure Re ϵ determination and Superconductivity Observation of Bulk 1T MoS ₂ . <i>Angewandte Chemie</i> , 2018, 130, 1246-1249.	2.0	46
115	Structure Re ϵ determination and Superconductivity Observation of Bulk 1T MoS ₂ . <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1232-1235.	13.8	126
116	Microstructural origins for a strong and ductile Al _{0.1} CoCrFeNi high-entropy alloy with ultrafine grains. <i>Materialia</i> , 2018, 4, 395-405.	2.7	43
117	Graphene-based quasi-solid-state lithium ϵ oxygen batteries with high energy efficiency and a long cycling lifetime. <i>NPG Asia Materials</i> , 2018, 10, 1037-1045.	7.9	35
118	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.	7.8	73
119	Spatial heterogeneity as the structure feature for structure ϵ property relationship of metallic glasses. <i>Nature Communications</i> , 2018, 9, 3965.	12.8	115
120	Low and room temperatures tensile properties of a nanoprecipitate-strengthened (FeCoCr) ₄₀ Ni ₄₀ Al ₁₀ Cu ₁₀ high-entropy alloy. <i>Materials Characterization</i> , 2018, 145, 177-184.	4.4	9
121	One-Dimensional Atomic Segregation at Semiconductor ϵ Metal Interfaces of Polymorphic Transition Metal Dichalcogenide Monolayers. <i>Nano Letters</i> , 2018, 18, 6157-6163.	9.1	4
122	Low ϵ Temperature Carbide ϵ Mediated Growth of Bicontinuous Nitrogen ϵ Doped Mesoporous Graphene as an Efficient Oxygen Reduction Electrocatalyst. <i>Advanced Materials</i> , 2018, 30, e1803588.	21.0	73
123	Locating Si atoms in Si-doped boron carbide: A route to understand amorphization mitigation mechanism. <i>Acta Materialia</i> , 2018, 157, 106-113.	7.9	42
124	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie</i> , 2018, 130, 13486-13491.	2.0	10
125	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
126	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.	3.9	3

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127	Macroporous mesh of nanoporous gold in electrochemical monitoring of superoxide release from skeletal muscle cells. <i>Biosensors and Bioelectronics</i> , 2017, 88, 41-47.	10.1	27
128	Deformation stimulated precipitation of a single-phase CoCrFeMnNi high entropy alloy. <i>Intermetallics</i> , 2017, 85, 90-97.	3.9	82
129	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
130	Ultrastrong steel via minimal lattice misfit and high-density nanoprecipitation. <i>Nature</i> , 2017, 544, 460-464.	27.8	843
131	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
132	Full Performance Nanoporous Graphene Based Li_2O Batteries through Solution Phase Oxygen Reduction and Redox-additive Mediated Li_2O Oxidation. <i>Advanced Energy Materials</i> , 2017, 7, 1601933.	19.5	65
133	Efficient hydrogen production on MoNi ₄ electrocatalysts with fast water dissociation kinetics. <i>Nature Communications</i> , 2017, 8, 15437.	12.8	813
134	High-quality single-layer nanosheets of MS ₂ (M = Mo, Nb, Ta, Ti) directly exfoliated from AMS ₂ (A = Li, Na, K) crystals. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5977-5983.	5.5	35
135	Structure and mechanical properties of boron-rich boron carbides. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4514-4523.	5.7	89
136	Terahertz and mid-infrared plasmons in three-dimensional nanoporous graphene. <i>Nature Communications</i> , 2017, 8, 14885.	12.8	58
137	Enhanced Superconductivity in Restacked TaS ₂ Nanosheets. <i>Journal of the American Chemical Society</i> , 2017, 139, 4623-4626.	13.7	84
138	Observation of superconductivity in 1T ϵ^2 -MoS ₂ nanosheets. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10855-10860.	5.5	77
139	Engineering the internal surfaces of three-dimensional nanoporous catalysts by surfactant-modified dealloying. <i>Nature Communications</i> , 2017, 8, 1066.	12.8	69
140	Chemical Selectivity at Grain Boundary Dislocations in Monolayer Mo _{1-x} W _x S ₂ Transition Metal Dichalcogenides. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29438-29444.	8.0	10
141	Direct Observations of the Formation and Redox-mediator-assisted Decomposition of Li_2O in a Liquid-cell Li_2O Microbattery by Scanning Transmission Electron Microscopy. <i>Advanced Materials</i> , 2017, 29, 1702752.	21.0	41
142	Tuning Surface Structure of 3D Nanoporous Gold by Surfactant-free Electrochemical Potential Cycling. <i>Advanced Materials</i> , 2017, 29, 1703601.	21.0	54
143	Environmentally stable interface of layered oxide cathodes for sodium-ion batteries. <i>Nature Communications</i> , 2017, 8, 135.	12.8	218
144	Ruthenium/nitrogen-doped carbon as an electrocatalyst for efficient hydrogen evolution in alkaline solution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25314-25318.	10.3	136

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145	Correlation between Local Structure Order and Spatial Heterogeneity in a Metallic Glass. <i>Physical Review Letters</i> , 2017, 119, 215501.	7.8	116
146	Microstructural characterization of boron-rich boron carbide. <i>Acta Materialia</i> , 2017, 136, 202-214.	7.9	91
147	A nanoporous nickel catalyst for selective hydrogenation of carbonates into formic acid in water. <i>Green Chemistry</i> , 2017, 19, 716-721.	9.0	46
148	Coupling effect between ultra-small Mn ₃ O ₄ nanoparticles and porous carbon microrods for hybrid supercapacitors. <i>Energy Storage Materials</i> , 2017, 6, 53-60.	18.0	72
149	New twinning route in face-centered cubic nanocrystalline metals. <i>Nature Communications</i> , 2017, 8, 2142.	12.8	110
150	Ductile CoCrFeNiMox high entropy alloys strengthened by hard intermetallic phases. <i>Acta Materialia</i> , 2016, 116, 332-342.	7.9	670
151	Effect of Chemical Doping on Cathodic Performance of Bicontinuous Nanoporous Graphene for Li ⁺ Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1501870.	19.5	132
152	3D Bicontinuous Nanoporous Reduced Graphene Oxide for Highly Sensitive Photodetectors. <i>Advanced Functional Materials</i> , 2016, 26, 1271-1277.	14.9	48
153	Graphene@Nanoporous Nickel Cathode for Li ⁺ Batteries. <i>ChemNanoMat</i> , 2016, 2, 176-181.	2.8	12
154	3D Nanoporous Metal Phosphides toward High Efficiency Electrochemical Hydrogen Production. <i>Advanced Materials</i> , 2016, 28, 2951-2955.	21.0	163
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