Yonggang Yao

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137	12,731	57	112
papers	citations	h-index	g-index
147	16,188 ext. citations	16.6	6.47
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
137	Flexible, solid-state, ion-conducting membrane with 3D garnet nanofiber networks for lithium batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7094-9	11.5	593
136	Carbothermal shock synthesis of high-entropy-alloy nanoparticles. <i>Science</i> , 2018 , 359, 1489-1494	33.3	560
135	Processing bulk natural wood into a high-performance structural material. <i>Nature</i> , 2018 , 554, 224-228	50.4	558
134	Toward garnet electrolyte-based Li metal batteries: An ultrathin, highly effective, artificial solid-state electrolyte/metallic Li interface. <i>Science Advances</i> , 2017 , 3, e1601659	14.3	482
133	All-wood, low tortuosity, aqueous, biodegradable supercapacitors with ultra-high capacitance. <i>Energy and Environmental Science</i> , 2017 , 10, 538-545	35.4	451
132	Graphene Oxide-Based Electrode Inks for 3D-Printed Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016 , 28, 2587-94	24	443
131	Conformal, Nanoscale ZnO Surface Modification of Garnet-Based Solid-State Electrolyte for Lithium Metal Anodes. <i>Nano Letters</i> , 2017 , 17, 565-571	11.5	416
130	Reducing Interfacial Resistance between Garnet-Structured Solid-State Electrolyte and Li-Metal Anode by a Germanium Layer. <i>Advanced Materials</i> , 2017 , 29, 1606042	24	378
129	Ultrafine Silver Nanoparticles for Seeded Lithium Deposition toward Stable Lithium Metal Anode. <i>Advanced Materials</i> , 2017 , 29, 1702714	24	374
128	Three-dimensional bilayer garnet solid electrolyte based high energy density lithium metal B ulfur batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 1568-1575	35.4	368
127	Tree-Inspired Design for High-Efficiency Water Extraction. <i>Advanced Materials</i> , 2017 , 29, 1704107	24	346
126	Highly Anisotropic, Highly Transparent Wood Composites. <i>Advanced Materials</i> , 2016 , 28, 5181-7	24	342
125	Progress in 3D Printing of Carbon Materials for Energy-Related Applications. <i>Advanced Materials</i> , 2017 , 29, 1603486	24	291
124	Mesoporous, Three-Dimensional Wood Membrane Decorated with Nanoparticles for Highly Efficient Water Treatment. <i>ACS Nano</i> , 2017 , 11, 4275-4282	16.7	272
123	A Thermally Conductive Separator for Stable Li Metal Anodes. <i>Nano Letters</i> , 2015 , 15, 6149-54	11.5	262
122	Rich Mesostructures Derived from Natural Woods for Solar Steam Generation. <i>Joule</i> , 2017 , 1, 588-599	27.8	242
121	Ultra-Thick, Low-Tortuosity, and Mesoporous Wood Carbon Anode for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1600377	21.8	205

(2016-2018)

120	Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. <i>Science Advances</i> , 2018 , 4, eaar3724	14.3	204
119	Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. Nature Materials, 2019 , 18, 608-613	27	187
118	3D-Printed All-Fiber Li-Ion Battery toward Wearable Energy Storage. <i>Advanced Functional Materials</i> , 2017 , 27, 1703140	15.6	184
117	Garnet Solid Electrolyte Protected Li-Metal Batteries. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 18809-18815	9.5	181
116	Highly efficient decomposition of ammonia using high-entropy alloy catalysts. <i>Nature Communications</i> , 2019 , 10, 4011	17.4	168
115	Extrusion-Based 3D Printing of Hierarchically Porous Advanced Battery Electrodes. <i>Advanced Materials</i> , 2018 , 30, e1705651	24	164
114	Large piezoelectricity and dielectric permittivity in BaTiO 3 -xBaSnO 3 system: The role of phase coexisting. <i>Europhysics Letters</i> , 2012 , 98, 27008	1.6	162
113	Transient Behavior of the Metal Interface in Lithium Metal-Garnet Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14942-14947	16.4	160
112	High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , 2019 , 14, 851-857	28.7	159
111	Highly Conductive, Lightweight, Low-Tortuosity Carbon Frameworks as Ultrathick 3D Current Collectors. <i>Advanced Energy Materials</i> , 2017 , 7, 1700595	21.8	156
110	Wood Composite as an Energy Efficient Building Material: Guided Sunlight Transmittance and Effective Thermal Insulation. <i>Advanced Energy Materials</i> , 2016 , 6, 1601122	21.8	154
109	Transparent and haze wood composites for highly efficient broadband light management in solar cells. <i>Nano Energy</i> , 2016 , 26, 332-339	17.1	149
108	Reduced Graphene Oxide Films with Ultrahigh Conductivity as Li-Ion Battery Current Collectors. <i>Nano Letters</i> , 2016 , 16, 3616-23	11.5	146
107	A carbon-based 3D current collector with surface protection for Li metal anode. <i>Nano Research</i> , 2017 , 10, 1356-1365	10	139
106	Anisotropic, Transparent Films with Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2017 , 29, 160628	3 4 4	137
105	Three-Dimensional Printable High-Temperature and High-Rate Heaters. ACS Nano, 2016, 10, 5272-9	16.7	137
104	Enhanced electrocaloric effect in lead-free BaTi1⊠SnxO3 ceramics near room temperature. <i>Applied Physics Letters</i> , 2014 , 105, 102904	3.4	136
103	Extreme Light Management in Mesoporous Wood Cellulose Paper for Optoelectronics. <i>ACS Nano</i> , 2016 , 10, 1369-77	16.7	133

102	Carbonized-leaf Membrane with Anisotropic Surfaces for Sodium-ion Battery. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 2204-10	9.5	124
101	Flexible, Scalable, and Highly Conductive Garnet-Polymer Solid Electrolyte Templated by Bacterial Cellulose. <i>Advanced Energy Materials</i> , 2018 , 8, 1703474	21.8	117
100	Hierarchically Porous, Ultrathick, B reathable (Wood-Derived Cathode for Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1701203	21.8	109
99	Phase transitions and the piezoelectricity around morphotropic phase boundary in Ba(Zr0.2Ti0.8)O3-x(Ba0.7Ca0.3)TiO3 lead-free solid solution. <i>Applied Physics Letters</i> , 2014 , 105, 162908	3.4	108
98	3D-Printed Graphene Oxide Framework with Thermal Shock Synthesized Nanoparticles for Li-CO2 Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1805899	15.6	95
97	High Temperature Carbonized Grass as a High Performance Sodium Ion Battery Anode. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 391-397	9.5	94
96	Self-Powered Human-Interactive Transparent Nanopaper Systems. ACS Nano, 2015, 9, 7399-406	16.7	85
95	Light management in plasticpaper hybrid substrate towards high-performance optoelectronics. Energy and Environmental Science, 2016 , 9, 2278-2285	35.4	85
94	Transient, in situ synthesis of ultrafine ruthenium nanoparticles for a high-rate LiftO2 battery. <i>Energy and Environmental Science</i> , 2019 , 12, 1100-1107	35.4	77
93	From Wood to Textiles: Top-Down Assembly of Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2018 , 30, e1801347	24	75
92	Ultra-fast self-assembly and stabilization of reactive nanoparticles in reduced graphene oxide films. <i>Nature Communications</i> , 2016 , 7, 12332	17.4	74
91	A strong, biodegradable and recyclable lignocellulosic bioplastic. <i>Nature Sustainability</i> , 2021 , 4, 627-635	22.1	74
90	Rapid Thermal Annealing of Cathode-Garnet Interface toward High-Temperature Solid State Batteries. <i>Nano Letters</i> , 2017 , 17, 4917-4923	11.5	72
89	A Strong, Tough, and Scalable Structural Material from Fast-Growing Bamboo. <i>Advanced Materials</i> , 2020 , 32, e1906308	24	69
88	Thermoelectric properties and performance of flexible reduced graphene oxide films up to 3,000 K. <i>Nature Energy</i> , 2018 , 3, 148-156	62.3	69
87	Stabilizing the Garnet Solid-Electrolyte/Polysulfide Interface in LiB Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 8037-8041	9.6	67
86	Carbon Welding by Ultrafast Joule Heating. <i>Nano Letters</i> , 2016 , 16, 7282-7289	11.5	65
85	Textile Inspired Lithium-Oxygen Battery Cathode with Decoupled Oxygen and Electrolyte Pathways. <i>Advanced Materials</i> , 2018 , 30, 1704907	24	63

84	Transient Rechargeable Batteries Triggered by Cascade Reactions. <i>Nano Letters</i> , 2015 , 15, 4664-71	11.5	60
83	Computationally aided, entropy-driven synthesis of highly efficient and durable multi-elemental alloy catalysts. <i>Science Advances</i> , 2020 , 6, eaaz0510	14.3	60
82	Millisecond synthesis of CoS nanoparticles for highly efficient overall water splitting. <i>Nano Research</i> , 2019 , 12, 2259-2267	10	57
81	Determining the three-dimensional atomic structure of an amorphous solid. <i>Nature</i> , 2021 , 592, 60-64	50.4	57
80	Rapid, in Situ Synthesis of High Capacity Battery Anodes through High Temperature Radiation-Based Thermal Shock. <i>Nano Letters</i> , 2016 , 16, 5553-8	11.5	52
79	High-throughput, combinatorial synthesis of multimetallic nanoclusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 6316-6322	11.5	50
78	General, Vertical, Three-Dimensional Printing of Two-Dimensional Materials with Multiscale Alignment. <i>ACS Nano</i> , 2019 , 13, 12653-12661	16.7	49
77	Isotropic Paper Directly from Anisotropic Wood: Top-Down Green Transparent Substrate Toward Biodegradable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28566-28571	9.5	49
76	Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper. <i>Advanced Materials</i> , 2016 , 28, 4684-91	24	47
75	Denary oxide nanoparticles as highly stable catalysts for methane combustion. <i>Nature Catalysis</i> , 2021 , 4, 62-70	36.5	45
74	In Situ Thainmail Catalyst Assembly in Low-Tortuosity, Hierarchical Carbon Frameworks for Efficient and Stable Hydrogen Generation. <i>Advanced Energy Materials</i> , 2018 , 8, 1801289	21.8	44
73	Overcoming immiscibility toward bimetallic catalyst library. Science Advances, 2020, 6, eaaz6844	14.3	42
72	A Solution-Processed High-Temperature, Flexible, Thin-Film Actuator. <i>Advanced Materials</i> , 2016 , 28, 86	1 <u>8</u> -β62	442
71	Thermally Stable Cellulose Nanocrystals toward High-Performance 2D and 3D Nanostructures. <i>ACS Applied Materials & Description (Natural Science)</i> 1, 28922-28929	9.5	39
70	Fire-Resistant Structural Material Enabled by an Anisotropic Thermally Conductive Hexagonal Boron Nitride Coating. <i>Advanced Functional Materials</i> , 2020 , 30, 1909196	15.6	37
69	All-Component Transient Lithium-Ion Batteries. Advanced Energy Materials, 2016, 6, 1502496	21.8	37
68	Epitaxial Welding of Carbon Nanotube Networks for Aqueous Battery Current Collectors. <i>ACS Nano</i> , 2018 , 12, 5266-5273	16.7	36
67	Thermally Conductive Reduced Graphene Oxide Thin Films for Extreme Temperature Sensors. Advanced Functional Materials, 2019, 29, 1901388	15.6	35

66	High temperature thermal management with boron nitride nanosheets. <i>Nanoscale</i> , 2017 , 10, 167-173	7.7	35
65	Flexible Solid-State Electrolyte with Aligned Nanostructures Derived from Wood 2019 , 1, 354-361		34
64	Anisotropic, Mesoporous Microfluidic Frameworks with Scalable, Aligned Cellulose Nanofibers. <i>ACS Applied Materials & Description (Control of the Control of</i>	9.5	33
63	Inverse effect of morphotropic phase boundary on the magnetostriction of ferromagnetic Tb1\(\text{IGdxCo2}. \text{ Physical Review B}, \text{ 2014}, 89,	3.3	30
62	Extreme mixing in nanoscale transition metal alloys. <i>Matter</i> , 2021 , 4, 2340-2353	12.7	30
61	A general, highly efficient, high temperature thermal pulse toward high performance solid state electrolyte. <i>Energy Storage Materials</i> , 2019 , 17, 234-241	19.4	30
60	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. <i>Chemistry of Materials</i> , 2020 , 32, 1887-1895	9.6	29
59	Ultrahigh-temperature conversion of biomass to highly conductive graphitic carbon. <i>Carbon</i> , 2019 , 144, 241-248	10.4	28
58	Holey three-dimensional wood-based electrode for vanadium flow batteries. <i>Energy Storage Materials</i> , 2020 , 27, 327-332	19.4	27
57	In Situ Lignin Modification toward Photonic Wood. <i>Advanced Materials</i> , 2021 , 33, e2001588	24	27
56	High Temperature Synthesis of Single-Component Metallic Nanoparticles. <i>ACS Central Science</i> , 2017 , 3, 294-301	16.8	26
55	Isothermal phase transition and the transition temperature limitation in the lead-free (1-x)Bi0.5Na0.5TiO3-xBaTiO3 system. <i>Acta Materialia</i> , 2016 , 103, 746-753	8.4	26
54	Highly Efficient Water Treatment via a Wood-Based and Reusable Filter 2020 , 2, 430-437		24
53	Dramatic Enhancement of CO2 Photoreduction by Biodegradable Light-Management Paper. <i>Advanced Energy Materials</i> , 2018 , 8, 1703136	21.8	24
52	High-Temperature Atomic Mixing toward Well-Dispersed Bimetallic Electrocatalysts. <i>Advanced Energy Materials</i> , 2018 , 8, 1800466	21.8	24
51	Universal, In Situ Transformation of Bulky Compounds into Nanoscale Catalysts by High-Temperature Pulse. <i>Nano Letters</i> , 2017 , 17, 5817-5822	11.5	23
50	Solvo-thermal microwave-powered two-dimensional material exfoliation. <i>Chemical Communications</i> , 2016 , 52, 5757-60	5.8	23
49	Carbon-Supported High-Entropy Oxide Nanoparticles as Stable Electrocatalysts for Oxygen Reduction Reactions. <i>Advanced Functional Materials</i> , 2021 , 31, 2010561	15.6	21

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48	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. <i>Nature Communications</i> , 2020 , 11, 6373	17.4	20
47	Lignin-Based Direct Ink Printed Structural Scaffolds. <i>Small</i> , 2020 , 16, e1907212	11	20
46	Super-Clear Nanopaper from Agro-Industrial Waste for Green Electronics. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600539	6.4	19
45	High-entropy nanoparticles: Synthesis-structure-property relationships and data-driven discovery <i>Science</i> , 2022 , 376, eabn3103	33.3	19
44	Design of High Capacity Dissoluble Electrodes for All Transient Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1605724	15.6	18
43	Evolution of the tetragonal to rhombohedral transition in (1 -)(BiNa)TiO - BaTiO (17%). <i>Science and Technology of Advanced Materials</i> , 2013 , 14, 035008	7.1	18
42	Lightweight, strong, moldable wood via cell wall engineering as a sustainable structural material. <i>Science</i> , 2021 , 374, 465-471	33.3	18
41	Continuous 2000 K droplet-to-particle synthesis. <i>Materials Today</i> , 2020 , 35, 106-114	21.8	18
40	Inverted battery design as ion generator for interfacing with biosystems. <i>Nature Communications</i> , 2017 , 8, 15609	17.4	17
39	Stamping Flexible Li Alloy Anodes. <i>Advanced Materials</i> , 2021 , 33, e2005305	24	16
38	Tailoring the Local Environment of Platinum in Single-Atom Pt /CeO Catalysts for Robust Low-Temperature CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26054-26062	16.4	15
37	Evolution from successive phase transitions to Thorphotropic phase boundary (In BaTiO3-based ferroelectrics. <i>Applied Physics Letters</i> , 2018 , 112, 182903	3.4	14
36	Ultrafast, Controllable Synthesis of Sub-Nano Metallic Clusters through Defect Engineering. <i>ACS Applied Materials & Defect Engineering</i> . 11, 29773-29779	9.5	14
35	Ferroelastic and strain glass transition in (1-x)(Bi 0.5 Na 0.5)TiO 3 -xBaTiO 3 solid solution. <i>Europhysics Letters</i> , 2012 , 100, 17004	1.6	14
34	Fly-through synthesis of nanoparticles on textile and paper substrates. <i>Nanoscale</i> , 2019 , 11, 6174-6181	7.7	11
33	Necklace-Like Silicon Carbide and Carbon Nanocomposites Formed by Steady Joule Heating. <i>Small Methods</i> , 2018 , 2, 1700371	12.8	11
32	Anisotropic Evaporator with a T-Shape Design for High-Performance Solar-Driven Zero-Liquid Discharge. <i>Small</i> , 2021 , 17, e2100969	11	11
31	Transient Behavior of the Metal Interface in Lithium Metal G arnet Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 15138-15143	3.6	10

30	Anatomy of vertical heteroepitaxial interfaces reveals the memristive mechanism in NbDENaNbOI thin films. <i>Scientific Reports</i> , 2015 , 5, 9229	4.9	10
29	Cut-and-stack nanofiber paper toward fast transient energy storage. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 681-688	6.8	10
28	Thermal Shock Synthesis of Nanocatalyst by 3D-Printed Miniaturized Reactors. Small, 2020, 16, e200050) 9 1	9
27	Strong and Superhydrophobic Wood with Aligned Cellulose Nanofibers as a Waterproof Structural Material <i>Chinese Journal of Chemistry</i> , 2020 , 38, 823-829	4.9	9
26	A General Method for Regenerating Catalytic Electrodes. <i>Joule</i> , 2020 , 4, 2374-2386	27.8	9
25	Strong, robust cellulose composite film for efficient light management in energy efficient building. <i>Chemical Engineering Journal</i> , 2021 , 425, 131469	14.7	9
24	3D Printed Graphene-Based 3000 K Probe. Advanced Functional Materials, 2021, 31, 2102994	15.6	8
23	High-entropy alloy stabilized and activated Pt clusters for highly efficient electrocatalysis. SusMat,		7
22	Catalyst-Free Carbon Nanotube Growth in Confined Space High Temperature Gradient. <i>Research</i> , 2018 , 2018, 1793784	7.8	6
21	Rapid Laser Pulse Synthesis of Supported Metal Nanoclusters with Kinetically Tunable Size and Surface Density for Electrocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2959-2968	₈ 5.6	5
20	Tuning the High-Temperature Wetting Behavior of Metals toward Ultrafine Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2625-2629	16.4	5
19	Multi-principal elemental intermetallic nanoparticles synthesized via a disorder-to-order transition <i>Science Advances</i> , 2022 , 8, eabm4322	14.3	5
18	Solar-driven on-site H2O2 generation and tandem photo-Fenton reaction on a triphase interface for rapid organic pollutant degradation. <i>Chemical Engineering Journal</i> , 2021 , 133168	14.7	5
17	High-temperature-pulse synthesis of ultrathin-graphene-coated metal nanoparticles. <i>Nano Energy</i> , 2021 , 80, 105536	17.1	5
16	Bamboo-inspired, simulation-guided design and 3D printing of light-weight and high-strength mechanical metamaterials. <i>Applied Materials Today</i> , 2021 , 26, 101268	6.6	4
15	Interface Engineering Between multi-elemental alloy Nanoparticles and Carbon Support Toward Stable Catalysts. <i>Advanced Materials</i> , 2021 , e2106436	24	4
14	Overcoming Immiscibility via a Milliseconds-Long Bhock Bynthesis toward Alloyed Nanoparticles. <i>Matter</i> , 2019 , 1, 1451-1453	12.7	4
13	Rapid Synthesis of High-Entropy Oxide Microparticles Small, 2022, e2104761	11	3

LIST OF PUBLICATIONS

12	Nanocarbon Paper: Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper (Adv. Mater. 23/2016). <i>Advanced Materials</i> , 2016 , 28, 4566	24	3
11	Highly efficient, field-assisted water splitting enabled by a bifunctional Ni3Fe magnetized wood carbon. <i>Chemical Engineering Journal</i> , 2022 , 439, 135722	14.7	3
10	Programmable heating and quenching for efficient thermochemical synthesis <i>Nature</i> , 2022 , 605, 470-	4 <i>7</i> 56.4	3
9	Enthalpy induced phase partition toward hierarchical, nanostructured high-entropy alloys. <i>Nano Research</i> ,1	10	2
8	Continuous Fly-Through High-Temperature Synthesis of Nanocatalysts. <i>Nano Letters</i> , 2021 , 21, 4517-45	5 2B 1.5	2
7	Surface-Decorated High-Entropy Alloy Catalysts with Significantly Boosted Activity and Stability. <i>Advanced Functional Materials</i> ,2204643	15.6	2
6	Sustainable, superfast deconstruction of natural cellulosic aggregates toward intrinsically green, multifunctional gel. <i>Chemical Engineering Journal</i> , 2022 , 435, 134856	14.7	1
5	Composition-dependent structure and properties of 5- and 15-element high-entropy alloy nanoparticles. <i>Cell Reports Physical Science</i> , 2021 , 2, 100641	6.1	1
4	Tailoring the Local Environment of Platinum in Single-Atom Pt1/CeO2 Catalysts for Robust Low-Temperature CO Oxidation. <i>Angewandte Chemie</i> ,	3.6	1
3	A general strategy for overcoming the trade-off between ultrasmall size and high loading of MOF-derived metal nanoparticles by millisecond pyrolysis. <i>Nano Energy</i> , 2022 , 97, 107125	17.1	1
2	Tuning the High-Temperature Wetting Behavior of Metals toward Ultrafine Nanoparticles. <i>Angewandte Chemie</i> , 2018 , 130, 2655-2659	3.6	0
1	In situ TEM Observation of Nanoparticles Formation during Carbothermal Shock. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1534-1535	0.5	