

# Yi Hu

## List of Publications by Year in Descending Order

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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.

69

papers

4,476

citations

32

h-index

66

g-index

84

ext. papers

5,417

ext. citations

9.5

avg, IF

5.61

L-index

#	Paper	IF	Citations
69	The dimensional evolution of structure and dynamics in hard sphere liquids.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 134502	3.9	0
68	2D layered black arsenic-phosphorus materials: Synthesis, properties, and device applications. <i>Nano Research</i> , <b>2022</b> , 15, 3737-3752	10	3
67	Local Dynamical Heterogeneity in Simple Glass Formers.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 175501	7.4	0
66	2D Arsenene and Arsenic Materials: Fundamental Properties, Preparation, and Applications. <i>Small</i> , <b>2021</b> , e2104556	11	3
65	Rh/Al Nanoantenna Photothermal Catalyst for Wide-Spectrum Solar-Driven CO Methanation with Nearly 100% Selectivity. <i>Nano Letters</i> , <b>2021</b> , 21, 8824-8830	11.5	4
64	Photodriven Catalytic Hydrogenation of CO to CH with Nearly 100% Selectivity over Ag Clusters. <i>Nano Letters</i> , <b>2021</b> , 21, 8693-8700	11.5	4
63	Interplay between percolation and glassiness in the random Lorentz gas. <i>Physical Review E</i> , <b>2021</b> , 103, L030104	2.4	7
62	Nanocapillarity and Nanoconfinement Effects of Pipet-like Bismuth@Carbon Nanotubes for Highly Efficient Electrocatalytic CO Reduction. <i>Nano Letters</i> , <b>2021</b> , 21, 2650-2657	11.5	29
61	Mean-Field Caging in a Random Lorentz Gas. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 6244-6254	3.4	4
60	Percolation thresholds on high-dimensional $D_{\{n\}}$ and $E_{\{8\}}$ -related lattices. <i>Physical Review E</i> , <b>2021</b> , 103, 062115	2.4	0
59	High-dimensional percolation criticality and hints of mean-field-like caging of the random Lorentz gas. <i>Physical Review E</i> , <b>2021</b> , 104, 024137	2.4	1
58	Quasi-Phthalocyanine Conjugated Covalent Organic Frameworks with Nitrogen-Coordinated Transition Metal Centers for High-Efficiency Electrocatalytic Ammonia Synthesis.. <i>Nano Letters</i> , <b>2021</b> ,	11.5	8
57	Controlled growth and ion intercalation mechanism of monocrystalline niobium pentoxide nanotubes for advanced rechargeable aluminum-ion batteries. <i>Nanoscale</i> , <b>2020</b> , 12, 12531-12540	7.7	9
56	Controllable growth and flexible optoelectronic devices of regularly-assembled Bi2S3 semiconductor nanowire bifurcated junctions and crosslinked networks. <i>Nano Research</i> , <b>2020</b> , 13, 2226-2232	10.3	5
55	Promoting Z-to-E Thermal Isomerization of Azobenzene Derivatives by Noncovalent Interaction with Phosphorene: Theoretical Prediction and Experimental Study. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 15961-15968	3.8	1
54	Arsenene: A Potential Therapeutic Agent for Acute Promyelocytic Leukaemia Cells by Acting on Nuclear Proteins. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5151-5158	16.4	33
53	Arsenene: A Potential Therapeutic Agent for Acute Promyelocytic Leukaemia Cells by Acting on Nuclear Proteins. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5189-5196	3.6	

52	Intermetallic SnSb nanodots embedded in carbon nanotubes reinforced nanofabric electrodes with high reversibility and rate capability for flexible Li-ion batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 13282-13288	7.7	17
51	All-polymer particulate slurry batteries. <i>Nature Communications</i> , <b>2019</b> , 10, 2513	17.4	57
50	van der Waals Epitaxial Growth and Interfacial Passivation of Two-Dimensional Single-Crystalline Few-Layer Gray Arsenic Nanoflakes. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 4524-4535	9.6	23
49	High-performance Li-ion capacitor based on black-TiO <sub>2</sub> -x/graphene aerogel anode and biomass-derived microporous carbon cathode. <i>Nano Research</i> , <b>2019</b> , 12, 1713-1719	10	42
48	Tuning the liquid-phase exfoliation of arsenic nanosheets by interaction with various solvents. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 12087-12090	3.6	18
47	One-Step Synthesis of 2-Ethylhexylamine Pillared Vanadium Disulfide Nanoflowers with Ultralarge Interlayer Spacing for High-Performance Magnesium Storage. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900145	21.8	79
46	CoxFeyN nanoparticles decorated on graphene sheets as high-performance electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12489-12497	13	32
45	Dynamics around the site percolation threshold on high-dimensional hypercubic lattices. <i>Physical Review E</i> , <b>2019</b> , 99, 022118	2.4	5
44	Dendrite-Free and Stable Lithium Metal Anodes Enabled by an Antimony-Based Lithiophilic Interphase. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7565-7573	9.6	45
43	Chelation-assisted formation of multi-yolk-shell Co <sub>4</sub> N@carbon nanoboxes for self-discharge-suppressed high-performance LiFeS <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20302-20309	13	22
42	Morphology of renormalization-group flow for the de Almeida-Thouless-Gardner universality class. <i>Physical Review E</i> , <b>2019</b> , 99, 022132	2.4	18
41	Review on photocatalytic and electrocatalytic artificial nitrogen fixation for ammonia synthesis at mild conditions: Advances, challenges and perspectives. <i>Nano Research</i> , <b>2019</b> , 12, 1229-1249	10	172
40	Significance of DNA bond strength in programmable nanoparticle thermodynamics and dynamics. <i>Soft Matter</i> , <b>2018</b> , 14, 2665-2670	3.6	5
39	Strong Capillarity, Chemisorption, and Electrocatalytic Capability of Crisscrossed Nanostraws Enabled Flexible, High-Rate, and Long-Cycling Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2018</b> , 12, 4868-4876	16.7	177
38	Interface Engineering of Anchored Ultrathin TiO/MoS Heterolayers for Highly-Efficient Electrochemical Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 6084-6089	9.5	43
37	Clustering and assembly dynamics of a one-dimensional microphase former. <i>Soft Matter</i> , <b>2018</b> , 14, 4101-4109	3.6	12
36	Walnut-Like Multicore-shell MnO Encapsulated Nitrogen-Rich Carbon Nanocapsules as Anode Material for Long-Cycling and Soft-Packed Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800003	15.6	148
35	Three-dimensional spongy framework as superlyophilic, strongly absorbing, and electrocatalytic polysulfide reservoir layer for high-rate and long-cycling lithium-sulfur batteries. <i>Nano Research</i> , <b>2018</b> , 11, 6436-6446	10	29

34	Correlation lengths in quasi-one-dimensional systems via transfer matrices. <i>Molecular Physics</i> , <b>2018</b> , 116, 3345-3354	1.7	7
33	Integrated perovskite solar capacitors with high energy conversion efficiency and fast photo-charging rate. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2047-2052	13	56
32	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO Nanoflakes for High-Performance Rechargeable Magnesium Batteries. <i>ACS Nano</i> , <b>2018</b> , 12, 12492-12502	16.7	85
31	Nitrogen-Doped Carbon Nanotube Forests Planted on Cobalt Nanoflowers as Polysulfide Mediator for Ultralow Self-Discharge and High Areal-Capacity Lithium-Sulfur Batteries. <i>Nano Letters</i> , <b>2018</b> , 18, 7949-7954	11.5	66
30	Tissue self-organization underlies morphogenesis of the notochord. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 373,	5.8	10
29	Oxygen Vacancy Engineering Promoted Photocatalytic Ammonia Synthesis on Ultrathin Two-Dimensional Bismuth Oxybromide Nanosheets. <i>Nano Letters</i> , <b>2018</b> , 18, 7372-7377	11.5	200
28	Highly efficient overall water splitting driven by all-inorganic perovskite solar cells and promoted by bifunctional bimetallic phosphide nanowire arrays. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 20076-20082	13	33
27	Highly Branched VS Nanodendrites with 1D Atomic-Chain Structure as a Promising Cathode Material for Long-Cycling Magnesium Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802563	24	119
26	Bottom-up synthesis of nitrogen-doped porous carbon scaffolds for lithium and sodium storage. <i>Nanoscale</i> , <b>2017</b> , 9, 1972-1977	7.7	36
25	Cucurbit[8]uril-Based Water-Soluble Supramolecular Dendronized Polymer: Evidence from Single Polymer Chain Morphology and Force Spectroscopy. <i>ACS Macro Letters</i> , <b>2017</b> , 6, 139-143	6.6	26
24	Hierarchical Colloidal Polymeric Structure from Surfactant-Like Amphiphiles in Selective Solvents. <i>Langmuir</i> , <b>2017</b> , 33, 3427-3433	4	10
23	Versatile Electronic Skins for Motion Detection of Joints Enabled by Aligned Few-Walled Carbon Nanotubes in Flexible Polymer Composites. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606604	15.6	92
22	Controlled growth and photoconductive properties of hexagonal SnS <sub>2</sub> nanoflakes with mesa-shaped atomic steps. <i>Nano Research</i> , <b>2017</b> , 10, 1434-1447	10	36
21	Highly Efficient Retention of Polysulfides in "Sea Urchin"-Like Carbon Nanotube/Nanopolyhedra Superstructures as Cathode Material for Ultralong-Life Lithium-Sulfur Batteries. <i>Nano Letters</i> , <b>2017</b> , 17, 437-444	11.5	194
20	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. <i>Nanoscale</i> , <b>2017</b> , 9, 1237-1243	7.7	121
19	Near-Infrared-Emissive Amphiphilic BODIPY Assemblies Manipulated by Charge-Transfer Interaction: From Nanofibers to Nanorods and Nanodisks. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 3088-3095	4.5	15
18	Self-Templated Formation of Interlaced Carbon Nanotubes Threaded Hollow CoS Nanoboxes for High-Rate and Heat-Resistant Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 12710-12715	16.4	364
17	CsPbSnIBr Based All-Inorganic Perovskite Solar Cells with Exceptional Efficiency and Stability. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 14009-14012	16.4	353

16	Nanoparticle encapsulation in vesicles formed by amphiphilic diblock copolymers. <i>Soft Matter</i> , <b>2017</b> , 13, 7840-7847	3.6	17
15	Porous-Shell Vanadium Nitride Nanobubbles with Ultrahigh Areal Sulfur Loading for High-Capacity and Long-Life Lithium-Sulfur Batteries. <i>Nano Letters</i> , <b>2017</b> , 17, 7839-7846	11.5	172
14	Cerium Oxide Nanocrystal Embedded Bimodal Micromesoporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 7274-7283	16.7	167
13	MoS <sub>2</sub> -Based All-Purpose Fibrous Electrode and Self-Powering Energy Fiber for Efficient Energy Harvesting and Storage. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601208	21.8	110
12	All-Inorganic Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15829-15832	16.4	700
11	In Situ Thermal Synthesis of Inlaid Ultrathin MoS <sub>2</sub> /Graphene Nanosheets as Electrocatalysts for the Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5733-5742	9.6	145
10	Dynamic Properties of DNA-Programmable Nanoparticle Crystallization. <i>ACS Nano</i> , <b>2016</b> , 10, 7485-92	16.7	16
9	Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> encapsulated flexible free-standing nanofabric cathodes for fast charging and long life-cycle lithium-ion batteries. <i>Nanoscale</i> , <b>2016</b> , 8, 7408-15	7.7	43
8	Amphiphilic Block Copolymer Aided Design of Hybrid Assemblies of Nanoparticles: Nanowire, Nanoring, and Nanocluster. <i>Macromolecules</i> , <b>2016</b> , 49, 3535-3541	5.5	28
7	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15041-15048	13	30
6	Hierarchical Ternary Carbide Nanoparticle/Carbon Nanotube-Inserted N-Doped Carbon Concave-Polyhedrons for Efficient Lithium and Sodium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 26834-26841	9.5	40
5	Hierarchical porous nitrogen-rich carbon nanospheres with high and durable capabilities for lithium and sodium storage. <i>Nanoscale</i> , <b>2016</b> , 8, 17911-17918	7.7	54
4	Self-Assembly of Polymer Tethered Molecular Nanoparticle Shape Amphiphiles in Selective Solvents. <i>Macromolecules</i> , <b>2015</b> , 48, 3112-3120	5.5	49
3	Chirp excitation technique to enhance microbubble displacement induced by ultrasound radiation force. <i>Journal of the Acoustical Society of America</i> , <b>2009</b> , 125, 1410-15	2.2	7
2	Wet Chemistry Vitrification and Metal-to-Semiconductor Transition of 2D Gray Arsenene Nanoflakes. <i>Advanced Functional Materials</i> , 2106529	15.6	2
1	Ag <sub>24</sub> Au cluster decorated mesoporous Co <sub>3</sub> O <sub>4</sub> for highly selective and efficient photothermal CO <sub>2</sub> hydrogenation. <i>Nano Research</i> , 1	10	1