

Yi Hu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2547242/publications.pdf>

Version: 2024-02-01

74
papers

6,295
citations

101496

36
h-index

76872

74
g-index

84
all docs

84
docs citations

84
times ranked

9171
citing authors

#	ARTICLE	IF	CITATIONS
1	All-Inorganic Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 15829-15832.	6.6	899
2	Self-Templated Formation of Interlaced Carbon Nanotubes Threaded Hollow Co ₃ S ₄ Nanoboxes for High-Rate and Heat-Resistant Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2017, 139, 12710-12715.	6.6	456
3	CsPb _{0.9} Sn _{0.1} Br ₂ Based All-Inorganic Perovskite Solar Cells with Exceptional Efficiency and Stability. <i>Journal of the American Chemical Society</i> , 2017, 139, 14009-14012.	6.6	447
4	Oxygen Vacancy Engineering Promoted Photocatalytic Ammonia Synthesis on Ultrathin Two-Dimensional Bismuth Oxybromide Nanosheets. <i>Nano Letters</i> , 2018, 18, 7372-7377.	4.5	308
5	Review on photocatalytic and electrocatalytic artificial nitrogen fixation for ammonia synthesis at mild conditions: Advances, challenges and perspectives. <i>Nano Research</i> , 2019, 12, 1229-1249.	5.8	301
6	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> , 2017, 17, 437-444.	4.5	223
7	Strong Capillarity, Chemisorption, and Electrocatalytic Capability of Crisscrossed Nanostraws Enabled Flexible, High-Rate, and Long-Cycling Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2018, 12, 4868-4876.	7.3	222
8	Cerium Oxide Nanocrystal Embedded Bimodal Microporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2017, 11, 7274-7283.	7.3	213
9	Porosity-Shell Vanadium Nitride Nanobubbles with Ultrahigh Areal Sulfur Loading for High-Capacity and Long-Life Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2017, 17, 7839-7846.	4.5	206
10	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> , 2018, 28, 1800003.	7.8	191
11	Highly Branched VS ₄ Nanodendrites with 1D Atomic Chain Structure as a Promising Cathode Material for Long-Cycling Magnesium Batteries. <i>Advanced Materials</i> , 2018, 30, e1802563.	11.1	187
12	In Situ Thermal Synthesis of Inlaid Ultrathin MoS ₂ /Graphene Nanosheets as Electrocatalysts for the Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2016, 28, 5733-5742.	3.2	166
13	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. <i>Nanoscale</i> , 2017, 9, 1237-1243.	2.8	154
14	MoS ₂ -Based All-Purpose Fibrous Electrode and Self-Powering Energy Fiber for Efficient Energy Harvesting and Storage. <i>Advanced Energy Materials</i> , 2017, 7, 1601208.	10.2	139
15	One-Step Synthesis of 2-Ethylhexylamine Pillared Vanadium Disulfide Nanoflowers with Ultralarge Interlayer Spacing for High-Performance Magnesium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1900145.	10.2	131
16	Versatile Electronic Skins for Motion Detection of Joints Enabled by Aligned Few-Walled Carbon Nanotubes in Flexible Polymer Composites. <i>Advanced Functional Materials</i> , 2017, 27, 1606604.	7.8	119
17	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO ₂ Nanoflakes for High-Performance Rechargeable Magnesium Batteries. <i>ACS Nano</i> , 2018, 12, 12492-12502.	7.3	116
18	Nanocapillarity and Nanoconfinement Effects of Pipet-like Bismuth@Carbon Nanotubes for Highly Efficient Electrocatalytic CO ₂ Reduction. <i>Nano Letters</i> , 2021, 21, 2650-2657.	4.5	95

#	ARTICLE	IF	CITATIONS
19	All-polymer particulate slurry batteries. <i>Nature Communications</i> , 2019, 10, 2513.	5.8	91
20	Integrated perovskite solar capacitors with high energy conversion efficiency and fast photo-charging rate. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2047-2052.	5.2	85
21	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> , 2018, 18, 7949-7954.	4.5	85
22	Dendrite-Free and Stable Lithium Metal Anodes Enabled by an Antimony-Based Lithiophilic Interphase. <i>Chemistry of Materials</i> , 2019, 31, 7565-7573.	3.2	73
23	High-performance Li-ion capacitor based on black-TiO _{2-x} /graphene aerogel anode and biomass-derived microporous carbon cathode. <i>Nano Research</i> , 2019, 12, 1713-1719.	5.8	64
24	Self-Assembly of Polymer Tethered Molecular Nanoparticle Shape Amphiphiles in Selective Solvents. <i>Macromolecules</i> , 2015, 48, 3112-3120.	2.2	63
25	Arsenene: A Potential Therapeutic Agent for Acute Promyelocytic Leukaemia Cells by Acting on Nuclear Proteins. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5151-5158.	7.2	62
26	Hierarchical porous nitrogen-rich carbon nanospheres with high and durable capabilities for lithium and sodium storage. <i>Nanoscale</i> , 2016, 8, 17911-17918.	2.8	57
27	Co _x Fe _y N nanoparticles decorated on graphene sheets as high-performance electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12489-12497.	5.2	56
28	Hierarchical Ternary Carbide Nanoparticle/Carbon Nanotube-Inserted N-Doped Carbon Concave-Polyhedrons for Efficient Lithium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26834-26841.	4.0	52
29	Controlled growth and photoconductive properties of hexagonal SnS ₂ nanoflakes with mesa-shaped atomic steps. <i>Nano Research</i> , 2017, 10, 1434-1447.	5.8	51
30	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> , 2018, 6, 20076-20082.	5.2	51
31	Li ₃ V ₂ (PO ₄) ₃ encapsulated flexible free-standing nanofabric cathodes for fast charging and long life-cycle lithium-ion batteries. <i>Nanoscale</i> , 2016, 8, 7408-7415.	2.8	49
32	Interface Engineering of Anchored Ultrathin TiO ₂ /MoS ₂ Heterolayers for Highly-Efficient Electrochemical Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6084-6089.	4.0	47
33	Rh/Al Nanoantenna Photothermal Catalyst for Wide-Spectrum Solar-Driven CO ₂ Methanation with Nearly 100% Selectivity. <i>Nano Letters</i> , 2021, 21, 8824-8830.	4.5	43
34	Quasi-Phthalocyanine Conjugated Covalent Organic Frameworks with Nitrogen-Coordinated Transition Metal Centers for High-Efficiency Electrocatalytic Ammonia Synthesis. <i>Nano Letters</i> , 2022, 22, 372-379.	4.5	43
35	Bottom-up synthesis of nitrogen-doped porous carbon scaffolds for lithium and sodium storage. <i>Nanoscale</i> , 2017, 9, 1972-1977.	2.8	42
36	van der Waals Epitaxial Growth and Interfacial Passivation of Two-Dimensional Single-Crystalline Few-Layer Gray Arsenic Nanoflakes. <i>Chemistry of Materials</i> , 2019, 31, 4524-4535.	3.2	41

#	ARTICLE	IF	CITATIONS
37	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> , 2018, 11, 6436-6446.	5.8	38
38	Crystalline Modulation Engineering of Ru Nanoclusters for Boosting Ammonia Electrosynthesis from Dinitrogen or Nitrate. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17470-17478.	4.0	37
39	2D layered black arsenic-phosphorus materials: Synthesis, properties, and device applications. <i>Nano Research</i> , 2022, 15, 3737-3752.	5.8	36
40	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15041-15048.	5.2	35
41	Amphiphilic Block Copolymer Aided Design of Hybrid Assemblies of Nanoparticles: Nanowire, Nanoring, and Nanocluster. <i>Macromolecules</i> , 2016, 49, 3535-3541.	2.2	34
42	Chelation-assisted formation of multi-yolk-shell Co ₄ N@carbon nanoboxes for self-discharge-suppressed high-performance Li-SeS ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20302-20309.	5.2	29
43	Single-Atom Metal Anchored Zr ₆ -Cluster-Porphyrin Framework Hollow Nanocapsules with Ultrahigh Active-Center Density for Electrocatalytic CO ₂ Reduction. <i>Nano Letters</i> , 2022, 22, 3340-3348.	4.5	29
44	Cucurbit[8]uril-Based Water-Soluble Supramolecular Dendronized Polymer: Evidence from Single Polymer Chain Morphology and Force Spectroscopy. <i>ACS Macro Letters</i> , 2017, 6, 139-143.	2.3	27
45	Intermetallic SnSb nanodots embedded in carbon nanotubes reinforced nanofabric electrodes with high reversibility and rate capability for flexible Li-ion batteries. <i>Nanoscale</i> , 2019, 11, 13282-13288.	2.8	27
46	Photodriven Catalytic Hydrogenation of CO ₂ to CH ₄ with Nearly 100% Selectivity over Ag ₂₅ Clusters. <i>Nano Letters</i> , 2021, 21, 8693-8700.	4.5	27
47	2D Arsenene and Arsenic Materials: Fundamental Properties, Preparation, and Applications. <i>Small</i> , 2022, 18, e2104556.	5.2	27
48	Dynamic Properties of DNA-Programmable Nanoparticle Crystallization. <i>ACS Nano</i> , 2016, 10, 7485-7492.	7.3	26
49	Tuning the liquid-phase exfoliation of arsenic nanosheets by interaction with various solvents. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12087-12090.	1.3	25
50	Nanoparticle encapsulation in vesicles formed by amphiphilic diblock copolymers. <i>Soft Matter</i> , 2017, 13, 7840-7847.	1.2	21
51	Morphology of renormalization-group flow for the de Almeida-Thouless Gardner universality class. <i>Physical Review E</i> , 2019, 99, 022132.	0.8	21
52	Near-Infrared-Emissive Amphiphilic BODIPY Assemblies Manipulated by Charge-Transfer Interaction: From Nanofibers to Nanorods and Nanodisks. <i>Chemistry - an Asian Journal</i> , 2017, 12, 3088-3095.	1.7	18
53	Controlled growth and ion intercalation mechanism of monocrystalline niobium pentoxide nanotubes for advanced rechargeable aluminum-ion batteries. <i>Nanoscale</i> , 2020, 12, 12531-12540.	2.8	17
54	Tissue self-organization underlies morphogenesis of the notochord. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170320.	1.8	16

#	ARTICLE	IF	CITATIONS
55	Controllable growth and flexible optoelectronic devices of regularly-assembled Bi ₂ S ₃ semiconductor nanowire bifurcated junctions and crosslinked networks. <i>Nano Research</i> , 2020, 13, 2226-2232.	5.8	16
56	Hierarchical Colloidal Polymeric Structure from Surfactant-Like Amphiphiles in Selective Solvents. <i>Langmuir</i> , 2017, 33, 3427-3433.	1.6	15
57	Clustering and assembly dynamics of a one-dimensional microphase former. <i>Soft Matter</i> , 2018, 14, 4101-4109.	1.2	15
58	Ag ₂₄ Au cluster decorated mesoporous Co ₃ O ₄ for highly selective and efficient photothermal CO ₂ hydrogenation. <i>Nano Research</i> , 2022, 15, 4965-4972.	5.8	15
59	Correlation lengths in quasi-one-dimensional systems via transfer matrices. <i>Molecular Physics</i> , 2018, 116, 3345-3354.	0.8	14
60	Interplay between percolation and glassiness in the random Lorentz gas. <i>Physical Review E</i> , 2021, 103, L030104.	0.8	12
61	Mean-Field Caging in a Random Lorentz Gas. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6244-6254.	1.2	11
62	Wet Chemistry Vitrification and Metal-to-Semiconductor Transition of 2D Gray Arsenene Nanoflakes. <i>Advanced Functional Materials</i> , 2021, 31, 2106529.	7.8	11
63	Significance of DNA bond strength in programmable nanoparticle thermodynamics and dynamics. <i>Soft Matter</i> , 2018, 14, 2665-2670.	1.2	10
64	Chirp excitation technique to enhance microbubble displacement induced by ultrasound radiation force. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 1410-1415.	0.5	7
65	Comment on "Kosterlitz-Thouless-type caging-uncaging transition in a quasi-one-dimensional hard disk system". <i>Physical Review Research</i> , 2021, 3, .	1.3	7
66	Local Dynamical Heterogeneity in Simple Glass Formers. <i>Physical Review Letters</i> , 2022, 128, 175501.	2.9	7
67	Numerical transfer matrix study of frustrated next-nearest-neighbor Ising models on square lattices. <i>Physical Review B</i> , 2021, 104, .	1.1	6
68	Dynamics around the site percolation threshold on high-dimensional hypercubic lattices. <i>Physical Review E</i> , 2019, 99, 022118.	0.8	5
69	The dimensional evolution of structure and dynamics in hard sphere liquids. <i>Journal of Chemical Physics</i> , 2022, 156, 134502.	1.2	5
70	Resolving the two-dimensional axial next-nearest-neighbor Ising model using transfer matrices. <i>Physical Review B</i> , 2021, 103, .	1.1	4
71	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> , 2020, 124, 15961-15968.	1.5	3
72	High-dimensional percolation criticality and hints of mean-field-like caging of the random Lorentz gas. <i>Physical Review E</i> , 2021, 104, 024137.	0.8	2

#	ARTICLE	IF	CITATIONS
73	Percolation thresholds on high-dimensional Dn and E8 -related lattices. Physical Review E, 2021, 103, 062115.	0.8	1
74	Arsenene: A Potential Therapeutic Agent for Acute Promyelocytic Leukaemia Cells by Acting on Nuclear Proteins. Angewandte Chemie, 2020, 132, 5189-5196.	1.6	0