

Yi Yu

List of Publications by Year in descending order

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99
papers

12,557
citations

44444

50
h-index

43601

95
g-index

104
all docs

104
docs citations

104
times ranked

20784
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomically thin two-dimensional organic-inorganic hybrid perovskites. <i>Science</i> , 2015, 349, 1518-1521.	6.0	1,159
2	Synergistic geometric and electronic effects for electrochemical reduction of carbon dioxide using gold-copper bimetallic nanoparticles. <i>Nature Communications</i> , 2014, 5, 4948.	5.8	1,062
3	Atomic structure of sensitive battery materials and interfaces revealed by cryo-electron microscopy. <i>Science</i> , 2017, 358, 506-510.	6.0	1,039
4	Solution-Phase Synthesis of Cesium Lead Halide Perovskite Nanowires. <i>Journal of the American Chemical Society</i> , 2015, 137, 9230-9233.	6.6	861
5	Electrochemical Activation of CO ₂ through Atomic Ordering Transformations of AuCu Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017, 139, 8329-8336.	6.6	529
6	MXene (Ti ₃ C ₂) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO ₂ . <i>Journal of the American Chemical Society</i> , 2019, 141, 4086-4093.	6.6	479
7	Synthesis of Composition Tunable and Highly Luminescent Cesium Lead Halide Nanowires through Anion-Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2016, 138, 7236-7239.	6.6	397
8	Bacteria photosensitized by intracellular gold nanoclusters for solar fuel production. <i>Nature Nanotechnology</i> , 2018, 13, 900-905.	15.6	362
9	Growth and Anion Exchange Conversion of CH ₃ NH ₃ PbX ₃ Nanorod Arrays for Light-Emitting Diodes. <i>Nano Letters</i> , 2015, 15, 5519-5524.	4.5	342
10	A Molecular Surface Functionalization Approach to Tuning Nanoparticle Electrocatalysts for Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2016, 138, 8120-8125.	6.6	340
11	Molecular engineering of organic-inorganic hybrid perovskites quantum wells. <i>Nature Chemistry</i> , 2019, 11, 1151-1157.	6.6	302
12	Two-dimensional halide perovskite lateral epitaxial heterostructures. <i>Nature</i> , 2020, 580, 614-620.	13.7	284
13	Ultralow thermal conductivity in all-inorganic halide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8693-8697.	3.3	246
14	Anisotropic phase segregation and migration of Pt in nanocrystals en route to nanoframe catalysts. <i>Nature Materials</i> , 2016, 15, 1188-1194.	13.3	244
15	Hybrid bioinorganic approach to solar-to-chemical conversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11461-11466.	3.3	234
16	Ultrathin Colloidal Cesium Lead Halide Perovskite Nanowires. <i>Journal of the American Chemical Society</i> , 2016, 138, 13155-13158.	6.6	234
17	Stabilization of 4H hexagonal phase in gold nanoribbons. <i>Nature Communications</i> , 2015, 6, 7684.	5.8	215
18	Tandem Catalysis for CO ₂ Hydrogenation to C ₂ -C ₄ Hydrocarbons. <i>Nano Letters</i> , 2017, 17, 3798-3802.	4.5	183

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19	Synthesis of Ultrathin Copper Nanowires Using Tris(trimethylsilyl)silane for High-Performance and Low-Haze Transparent Conductors. <i>Nano Letters</i> , 2015, 15, 7610-7615.	4.5	179
20	Control of Architecture in Rhombic Dodecahedral Pt@Ni Nanoframe Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2017, 139, 11678-11681.	6.6	166
21	Solution-Processed Copper/Reduced-Graphene-Oxide Core/Shell Nanowire Transparent Conductors. <i>ACS Nano</i> , 2016, 10, 2600-2606.	7.3	155
22	MOF-Confined Sub-2 nm Atomically Ordered Intermetallic PdZn Nanoparticles as High-Performance Catalysts for Selective Hydrogenation of Acetylene. <i>Advanced Materials</i> , 2018, 30, e1801878.	11.1	133
23	Structural, optical, and electrical properties of phase-controlled cesium lead iodide nanowires. <i>Nano Research</i> , 2017, 10, 1107-1114.	5.8	128
24	Strongly Quantum Confined Colloidal Cesium Tin Iodide Perovskite Nanoplates: Lessons for Reducing Defect Density and Improving Stability. <i>Nano Letters</i> , 2018, 18, 2060-2066.	4.5	128
25	Directed Assembly of Nanoparticle Catalysts on Nanowire Photoelectrodes for Photoelectrochemical CO ₂ Reduction. <i>Nano Letters</i> , 2016, 16, 5675-5680.	4.5	125
26	Atomic Resolution Imaging of Halide Perovskites. <i>Nano Letters</i> , 2016, 16, 7530-7535.	4.5	125
27	Ultrathin Epitaxial Cu@Au Core-Shell Nanowires for Stable Transparent Conductors. <i>Journal of the American Chemical Society</i> , 2017, 139, 7348-7354.	6.6	125
28	Core-Shell CdS@Cu ₂ S Nanorod Array Solar Cells. <i>Nano Letters</i> , 2015, 15, 4096-4101.	4.5	114
29	Covalent Triazine Framework Confined Copper Catalysts for Selective Electrochemical CO ₂ Reduction: Operando Diagnosis of Active Sites. <i>ACS Catalysis</i> , 2020, 10, 4534-4542.	5.5	112
30	General Way To Construct Micro- and Mesoporous Metal-Organic Framework-Based Porous Liquids. <i>Journal of the American Chemical Society</i> , 2019, 141, 19708-19714.	6.6	111
31	Atomic Tuning of Single-Atom Fe-N-C Catalysts with Phosphorus for Robust Electrochemical CO ₂ Reduction. <i>Nano Letters</i> , 2022, 22, 1557-1565.	4.5	111
32	All-Solid-State Batteries with a Limited Lithium Metal Anode at Room Temperature using a Garnet-Based Electrolyte. <i>Advanced Materials</i> , 2021, 33, e2002325.	11.1	99
33	Engineering Lattice Disorder on a Photocatalyst: Photochromic BiOBr Nanosheets Enhance Activation of Aromatic C-H Bonds via Water Oxidation. <i>Journal of the American Chemical Society</i> , 2022, 144, 3386-3397.	6.6	96
34	High-Performance, Low-Cost, and Dense Structure Electrodes with High Mass Loading for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1903961.	7.8	93
35	Ruddlesden-Popper Phase in Two-Dimensional Inorganic Halide Perovskites: A Plausible Model and the Supporting Observations. <i>Nano Letters</i> , 2017, 17, 5489-5494.	4.5	90
36	Layer-by-layer anionic diffusion in two-dimensional halide perovskite vertical heterostructures. <i>Nature Nanotechnology</i> , 2021, 16, 584-591.	15.6	88

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37	Living materials fabricated via gradient mineralization of light-inducible biofilms. <i>Nature Chemical Biology</i> , 2021, 17, 351-359.	3.9	85
38	Atomic Structure of Ultrathin Gold Nanowires. <i>Nano Letters</i> , 2016, 16, 3078-3084.	4.5	82
39	Insights into the Mechanism of Tandem Alkene Hydroformylation over a Nanostructured Catalyst with Multiple Interfaces. <i>Journal of the American Chemical Society</i> , 2016, 138, 11568-11574.	6.6	82
40	Extrinsic and Dynamic Edge States of Two-Dimensional Lead Halide Perovskites. <i>ACS Nano</i> , 2019, 13, 1635-1644.	7.3	79
41	Stabilized lithium metal anode by an efficient coating for high-performance Li-S batteries. <i>Energy Storage Materials</i> , 2020, 24, 329-335.	9.5	79
42	Phase-Selective Cation-Exchange Chemistry in Sulfide Nanowire Systems. <i>Journal of the American Chemical Society</i> , 2014, 136, 17430-17433.	6.6	78
43	A generalizable method for the construction of MOF@polymer functional composites through surface-initiated atom transfer radical polymerization. <i>Chemical Science</i> , 2019, 10, 1816-1822.	3.7	75
44	Thermal Transport in Silicon Nanowires at High Temperature up to 700 K. <i>Nano Letters</i> , 2016, 16, 4133-4140.	4.5	74
45	Growth and Photoelectrochemical Energy Conversion of Wurtzite Indium Phosphide Nanowire Arrays. <i>ACS Nano</i> , 2016, 10, 5525-5535.	7.3	70
46	Electrocatalytic NiCo ₂ O ₄ Nanofiber Arrays on Carbon Cloth for Flexible and High-Loading Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2021, 21, 5285-5292.	4.5	64
47	Kinetics-Controlled Super-Assembly of Asymmetric Porous and Hollow Carbon Nanoparticles as Light-Sensitive Smart Nanovehicles. <i>Journal of the American Chemical Society</i> , 2022, 144, 1634-1646.	6.6	64
48	Semiconducting amorphous carbon thin films for transparent conducting electrodes. <i>Carbon</i> , 2014, 76, 64-70.	5.4	62
49	Genetic and biochemical investigations of the role of MamP in redox control of iron biomineralization in <i>Magnetospirillum magneticum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3904-3909.	3.3	62
50	Spontaneous Delithiation under <i>Operando</i> Condition Triggers Formation of an Amorphous Active Layer in Spinel Cobalt Oxides Electrocatalyst toward Oxygen Evolution. <i>ACS Catalysis</i> , 2019, 9, 7389-7397.	5.5	52
51	Electrical and Optical Tunability in All-Inorganic Halide Perovskite Alloy Nanowires. <i>Nano Letters</i> , 2018, 18, 3538-3542.	4.5	51
52	Pyroelectric nanoplates for reduction of CO ₂ to methanol driven by temperature-variation. <i>Nature Communications</i> , 2021, 12, 318.	5.8	51
53	Phase-transition-induced p-n junction in single halide perovskite nanowire. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8889-8894.	3.3	48
54	Solution Phase Synthesis of Indium Gallium Phosphide Alloy Nanowires. <i>ACS Nano</i> , 2015, 9, 3951-3960.	7.3	44

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55	Niobium Tungsten Oxides for Electrochromic Devices with Long-Term Stability. ACS Nano, 2022, 16, 2621-2628.	7.3	44
56	Synthesis of PtCo ₃ polyhedral nanoparticles and evolution to Pt ₃ Co nanoframes. Surface Science, 2016, 648, 328-332.	0.8	42
57	Benzoin Radicals as Reducing Agent for Synthesizing Ultrathin Copper Nanowires. Journal of the American Chemical Society, 2017, 139, 3027-3032.	6.6	40
58	Electric-field control of phase separation and memory effect in Pr _{0.6} Ca _{0.4} MnO ₃ /Pb(Mg _{1/3} Nb _{2/3}) _{0.7} Ti _{0.3} O ₃ heterostructures. Applied Physics Letters, 2011, 98, .	1.5	38
59	Cation/Anion Codoped and Cobalt-Free Li-Rich Layered Cathode for High-Performance Li-Ion Batteries. Nano Letters, 2021, 21, 8370-8377.	4.5	35
60	High-performance overall water splitting based on amorphous iron doped cobalt tungstate <i>via</i> facile co-precipitation. Journal of Materials Chemistry A, 2021, 9, 9753-9760.	5.2	34
61	Strain-Mediated Coexistence of Volatile and Nonvolatile Converse Magnetoelectric Effects in Fe/Pb(Mg _{1/3} Nb _{2/3}) _{0.7} Ti _{0.3} O ₃ Heterostructure. ACS Applied Materials & Interfaces, 2017, 9, 20637-20647.	4.0	32
62	Unravelling the room-temperature atomic structure and growth kinetics of lithium metal. Nature Communications, 2020, 11, 5367.	5.8	29
63	Room-Temperature Dynamics of Vanishing Copper Nanoparticles Supported on Silica. Nano Letters, 2017, 17, 2732-2737.	4.5	27
64	Direct aerobic oxidation of monoalcohol and diols to acetals using tandem Ru@MOF catalysts. Nano Research, 2021, 14, 479-485.	5.8	27
65	High-Performance Three-Dimensional Li Anode Scaffold Enabled by Homogeneous Zn Nanoclusters. Small, 2020, 16, e2001257.	5.2	25
66	Superconductivity in Vacuum Annealed Bi ₆ O ₈ S ₅ . Journal of the Physical Society of Japan, 2013, 82, 034718.	0.7	22
67	Morphology-controlled transformation of Cu@Au core-shell nanowires into thermally stable Cu ₃ Au intermetallic nanowires. Nano Research, 2020, 13, 2564-2569.	5.8	22
68	Engineering plasticization resistant gas separation membranes using metal-organic nanocapsules. Chemical Science, 2020, 11, 4687-4694.	3.7	22
69	Manganese vacancy-confined single-atom Ag in cryptomelane nanorods for efficient Wacker oxidation of styrene derivatives. Chemical Science, 2021, 12, 6099-6106.	3.7	22
70	Self-assembled Pt-CoFe layered double hydroxides for efficient alkaline water/seawater splitting by spontaneous redox synthesis. Journal of Power Sources, 2022, 532, 231353.	4.0	20
71	Atomic-scale study of topological vortex-like domain pattern in multiferroic hexagonal manganites. Applied Physics Letters, 2013, 103, 032901.	1.5	19
72	<i>In Situ</i> Growth of Strained Matrix on CsPbI ₃ Perovskite Quantum Dots for Balanced Conductivity and Stability. ACS Nano, 2022, 16, 10534-10544.	7.3	16

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73	Enhanced Oxygen Evolution Activity of $\text{CoO}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Heterostructured Thin Film. <i>ACS Applied Energy Materials</i> , 2020, 3, 7988-7996.	2.5	15
74	Improved Electrochemical Performance of Li-Rich Layered Oxide Cathodes Enabled by a Two-Step Heat Treatment. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13281-13288.	4.0	15
75	Pr-Doped LaCoO_3 toward Stable and Efficient Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 9057-9065.	2.5	15
76	Understanding the formation of multiply twinned structure in decahedral intermetallic nanoparticles. <i>IUCr</i> , 2019, 6, 447-453.	1.0	13
77	Microstructure of Lithium Dendrites Revealed by Room-Temperature Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2022, 144, 4124-4132.	6.6	12
78	High-resolution transmission electron microscopy of beam-sensitive halide perovskites. <i>CheM</i> , 2022, 8, 327-339.	5.8	9
79	Atomic distribution, local structure and cation size effect in $\text{R}_{1-x}\text{Ca}_x\text{MnO}_3$ ($\text{R} = \text{Dy, Y, and Ho}$). <i>Journal of Physics Condensed Matter</i> , 2013, 25, 475901.	0.7	6
80	Ambipolar two-dimensional bismuth nanostructures in junction with bismuth oxychloride. <i>Nano Research</i> , 2021, 14, 1103-1109.	5.8	6
81	Synthesis of a Spatially Confined, Highly Durable, and Fully Exposed Pd Cluster Catalyst via Sequential Site-Selective Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14466-14473.	4.0	6
82	The effects of local strain on the cubic $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}(001)/\text{Li}(001)$ interface: A first-principles study. <i>Solid State Ionics</i> , 2021, 360, 115546.	1.3	5
83	Structural Damage of Two-Dimensional Organic-Inorganic Halide Perovskites. <i>Inorganics</i> , 2020, 8, 13.	1.2	5
84	Application of Auger electron spectroscopy in lithium-ion conducting oxide solid electrolytes. <i>Nano Research</i> , 0, , .	5.8	5
85	Microstructure and strain relaxation of orthorhombic TmMnO_3 epitaxial thin films. <i>Journal of Crystal Growth</i> , 2012, 338, 280-282.	0.7	4
86	Microstructure of epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films grown on $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_0.7\text{Ti}_0.3\text{O}_3$ substrates. <i>Journal of Crystal Growth</i> , 2012, 354, 98-100.	0.7	4
87	Low-Temperature Solution-Phase Growth of Silicon and Silicon-Containing Alloy Nanowires. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20525-20529.	1.5	4
88	<i>In Situ</i> Probing the Kinetics of Gold Nanoparticle Thermal Sintering in Liquids: Implications for Ink-Jet Printing. <i>ACS Applied Nano Materials</i> , 2021, 4, 2538-2546.	2.4	4
89	Circumferential Li metal deposition at high rates enabled by the synergistic effect of a lithiophilic and ionic conductive network. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5391-5401.	5.2	4
90	Calcium-Assisted <i>In Situ</i> Formation of Perovskite Nanocrystals for Luminescent Green and Blue Emitters. <i>ACS Applied Nano Materials</i> , 2021, 4, 14303-14311.	2.4	3

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91	Towards atomic-scale electron microscopy characterization of single molecular catalysts. <i>Catalysis Today</i> , 2020, 350, 192-196.	2.2	2
92	Probing the Formation of Lithium Metal in an Inert Atmosphere by Big Data-Driven <i>In Situ</i> Electron Microscopy. <i>ACS Applied Energy Materials</i> , 2021, 4, 7226-7232.	2.5	2
93	Atomic-scale study of nanocatalysts by aberration-corrected electron microscopy. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 413004.	0.7	2
94	Pitfalls in Electrochemical Liquid Cell Transmission Electron Microscopy for Dendrite Observation. <i>Advanced Energy and Sustainability Research</i> , 0, , 2100160.	2.8	2
95	Revealing the spatial and temporal distribution of different chemical states of lithium by EELS analysis using non-negative matrix factorization. <i>Micron</i> , 2022, 154, 103213.	1.1	1
96	<i>In Situ</i> Electron Microscopy Study of the Dynamics of Liquid Flow in Confined Cells. <i>ACS Applied Materials & Interfaces</i> , 0, , .	4.0	1
97	Insight into ultrasensitive and high-stability flocculation-enhanced Raman spectroscopy for the <i>in situ</i> noninvasive probing of cupping effect substances. <i>Analyst</i> , The, 0, , .	1.7	1
98	Microstructural Characterization of La- and Ti-Codoped Multiferroic BiFeO ₃ Epitaxial Thin Films. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 3780-3782.	1.2	0
99	Rapid defect characterization: The efficiency of diffraction contrast-scanning transmission electron microscopy. <i>Microscopy Research and Technique</i> , 2020, 83, 1604-1609.	1.2	0