

Yihang Liu

List of Publications by Year in descending order

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6,342
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109137

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times ranked

9200
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| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Electrochemical Performance of Porous Carbon/Tin Composite Anodes for Sodium-Ion and Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 128-133. | 10.2 | 773 |
| 2 | Electrospun Sb/C Fibers for a Stable and Fast Sodium-Ion Battery Anode. <i>ACS Nano</i> , 2013, 7, 6378-6386. | 7.3 | 610 |
| 3 | Uniform Nano-Sn/C Composite Anodes for Lithium Ion Batteries. <i>Nano Letters</i> , 2013, 13, 470-474. | 4.5 | 531 |
| 4 | Comparison of electrochemical performances of olivine NaFePO ₄ in sodium-ion batteries and olivine LiFePO ₄ in lithium-ion batteries. <i>Nanoscale</i> , 2013, 5, 780-787. | 2.8 | 420 |
| 5 | Selenium@Mesoporous Carbon Composite with Superior Lithium and Sodium Storage Capacity. <i>ACS Nano</i> , 2013, 7, 8003-8010. | 7.3 | 393 |
| 6 | Tin-Coated Viral Nanoforests as Sodium-Ion Battery Anodes. <i>ACS Nano</i> , 2013, 7, 3627-3634. | 7.3 | 287 |
| 7 | Layered P2-Na _{2/3} [Ni _{1/3} Mn _{2/3}]O ₂ as high-voltage cathode for sodium-ion batteries: The capacity decay mechanism and Al ₂ O ₃ surface modification. <i>Nano Energy</i> , 2016, 27, 27-34. | 8.2 | 255 |
| 8 | <i>In Situ</i> Formed Lithium Sulfide/Microporous Carbon Cathodes for Lithium-Ion Batteries. <i>ACS Nano</i> , 2013, 7, 10995-11003. | 7.3 | 215 |
| 9 | Red Phosphorus Nanodots on Reduced Graphene Oxide as a Flexible and Ultra-Fast Anode for Sodium-Ion Batteries. <i>ACS Nano</i> , 2017, 11, 5530-5537. | 7.3 | 201 |
| 10 | Highly Sensitive and Wearable In ₂ O ₃ Nanoribbon Transistor Biosensors with Integrated On-Chip Gate for Glucose Monitoring in Body Fluids. <i>ACS Nano</i> , 2018, 12, 1170-1178. | 7.3 | 185 |
| 11 | Fully Screen-Printed, Large-Area, and Flexible Active-Matrix Electrochromic Displays Using Carbon Nanotube Thin-Film Transistors. <i>ACS Nano</i> , 2016, 10, 9816-9822. | 7.3 | 183 |
| 12 | Screw-Dislocation-Driven Growth of Two-Dimensional Few-Layer and Pyramid-like WSe ₂ by Sulfur-Assisted Chemical Vapor Deposition. <i>ACS Nano</i> , 2014, 8, 11543-11551. | 7.3 | 146 |
| 13 | High-Performance WSe ₂ Field-Effect Transistors <i>via</i> Controlled Formation of In-Plane Heterojunctions. <i>ACS Nano</i> , 2016, 10, 5153-5160. | 7.3 | 135 |
| 14 | Carbon coated hollow Na ₂ FePO ₄ F spheres for Na-ion battery cathodes. <i>Journal of Power Sources</i> , 2013, 223, 62-67. | 4.0 | 134 |
| 15 | Graphene oxide wrapped croconic acid disodium salt for sodium ion battery electrodes. <i>Journal of Power Sources</i> , 2014, 250, 372-378. | 4.0 | 134 |
| 16 | Superior electrochemical performance and structure evolution of mesoporous Fe ₂ O ₃ anodes for lithium-ion batteries. <i>Nano Energy</i> , 2014, 3, 26-35. | 8.2 | 124 |
| 17 | SnO ₂ coated carbon cloth with surface modification as Na-ion battery anode. <i>Nano Energy</i> , 2015, 16, 399-407. | 8.2 | 123 |
| 18 | A carbon nanofiber network for stable lithium metal anodes with high Coulombic efficiency and long cycle life. <i>Nano Research</i> , 2016, 9, 3428-3436. | 5.8 | 120 |

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|----|---|------|-----------|
| 19 | In Situ Atomic-Scale Imaging of Phase Boundary Migration in FePO ₄ Microparticles During Electrochemical Lithiation. <i>Advanced Materials</i> , 2013, 25, 5461-5466. | 11.1 | 119 |
| 20 | Tellurene Photodetector with High Gain and Wide Bandwidth. <i>ACS Nano</i> , 2020, 14, 303-310. | 7.3 | 101 |
| 21 | Hierarchical Carbon-Coated Ball-Milled Silicon: Synthesis and Applications in Free-Standing Electrodes and High-Voltage Full Lithium-Ion Batteries. <i>ACS Nano</i> , 2018, 12, 6280-6291. | 7.3 | 99 |
| 22 | Room-Temperature Pressure Synthesis of Layered Black Phosphorus-Graphene Composite for Sodium-Ion Battery Anodes. <i>ACS Nano</i> , 2018, 12, 8323-8329. | 7.3 | 83 |
| 23 | Silicon(lithiated)-sulfur full cells with porous silicon anode shielded by Nafion against polysulfides to achieve high capacity and energy density. <i>Nano Energy</i> , 2016, 19, 68-77. | 8.2 | 77 |
| 24 | Red-phosphorus-impregnated carbon nanofibers for sodium-ion batteries and liquefaction of red phosphorus. <i>Nature Communications</i> , 2020, 11, 2520. | 5.8 | 77 |
| 25 | Fully Printed All-Solid-State Organic Flexible Artificial Synapse for Neuromorphic Computing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16749-16757. | 4.0 | 70 |
| 26 | Highly Sensitive and Quick Detection of Acute Myocardial Infarction Biomarkers Using In ₂ O ₃ Nanoribbon Biosensors Fabricated Using Shadow Masks. <i>ACS Nano</i> , 2016, 10, 10117-10125. | 7.3 | 69 |
| 27 | Architecturing Hierarchical Function Layers on Self-Assembled Viral Templates as 3D Nano-Array Electrodes for Integrated Li-Ion Microbatteries. <i>Nano Letters</i> , 2013, 13, 293-300. | 4.5 | 68 |
| 28 | High-power lithium ion batteries based on flexible and light-weight cathode of LiNi _{0.5} Mn _{1.5} O ₄ /carbon nanotube film. <i>Nano Energy</i> , 2015, 12, 43-51. | 8.2 | 63 |
| 29 | Functional interlayer of PVDF-HFP and carbon nanofiber for long-life lithium-sulfur batteries. <i>Nano Research</i> , 2018, 11, 3340-3352. | 5.8 | 60 |
| 30 | Black Phosphorus Field-Effect Transistors with Work Function Tunable Contacts. <i>ACS Nano</i> , 2017, 11, 7126-7133. | 7.3 | 54 |
| 31 | Hoop-Strong Nanotubes for Battery Electrodes. <i>ACS Nano</i> , 2013, 7, 8295-8302. | 7.3 | 52 |
| 32 | Flexible Multiplexed In ₂ O ₃ Nanoribbon Aptamer-Field-Effect Transistors for Biosensing. <i>IScience</i> , 2020, 23, 101469. | 1.9 | 45 |
| 33 | In Situ and Ex Situ TEM Study of Lithiation Behaviours of Porous Silicon Nanostructures. <i>Scientific Reports</i> , 2016, 6, 31334. | 1.6 | 43 |
| 34 | Synthesis, Characterization, and Device Application of Antimony-Substituted Violet Phosphorus: A Layered Material. <i>ACS Nano</i> , 2017, 11, 4105-4113. | 7.3 | 41 |
| 35 | Ultrathin Surface Modification by Atomic Layer Deposition on High Voltage Cathode LiNi _{0.5} Mn _{1.5} O ₄ for Lithium Ion Batteries. <i>Energy Technology</i> , 2014, 2, 159-165. | 1.8 | 40 |
| 36 | Top-Contact Self-Aligned Printing for High-Performance Carbon Nanotube Thin-Film Transistors with Sub-Micron Channel Length. <i>ACS Nano</i> , 2017, 11, 2008-2014. | 7.3 | 38 |

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|----|---|-----|-----------|
| 37 | Atomic Insights into the Enhanced Surface Stability in High Voltage Cathode Materials by Ultrathin Coating. <i>Advanced Functional Materials</i> , 2017, 27, 1602873. | 7.8 | 37 |
| 38 | Quasi-two-dimensional $\text{In}_2\text{Ga}_2\text{O}_3$ field effect transistors with large drain current density and low contact resistance via controlled formation of interfacial oxygen vacancies. <i>Nano Research</i> , 2019, 12, 143-148. | 5.8 | 35 |
| 39 | Single-step flash-heat synthesis of red phosphorus/graphene flame-retardant composite as flexible anodes for sodium-ion batteries. <i>Nano Research</i> , 2018, 11, 3780-3790. | 5.8 | 30 |
| 40 | Synthesis of interconnected graphene framework with two-dimensional protective layers for stable lithium metal anodes. <i>Energy Storage Materials</i> , 2019, 17, 341-348. | 9.5 | 26 |
| 41 | Gold-vapor-assisted chemical vapor deposition of aligned monolayer WSe_2 with large domain size and fast growth rate. <i>Nano Research</i> , 2020, 13, 2625-2631. | 5.8 | 15 |
| 42 | Copolymerization of methyl methacrylate and vinylbenzyl chloride towards alkaline anion exchange membrane for fuel cell applications. <i>Journal of Membrane Science</i> , 2012, 423-424, 209-214. | 4.1 | 11 |
| 43 | Electrochemical performance of patterned LiFePO_4 nano-electrode with a pristine amorphous layer. <i>Applied Physics Letters</i> , 2014, 104, . | 1.5 | 8 |
| 44 | High-Performance Sub-Micrometer Channel WSe_2 Field-Effect Transistors Prepared Using a Flood-Dike Printing Method. <i>ACS Nano</i> , 2017, 11, 12536-12546. | 7.3 | 7 |
| 45 | Synthesis of Red and Black Phosphorus Nanomaterials. <i>ACS Symposium Series</i> , 2019, , 1-25. | 0.5 | 2 |
| 46 | Cathode Materials: Atomic Insights into the Enhanced Surface Stability in High Voltage Cathode Materials by Ultrathin Coating (<i>Adv. Funct. Mater.</i> 7/2017). <i>Advanced Functional Materials</i> , 2017, 27, . | 7.8 | 0 |