# Yayuan Liu

## 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.

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|---|---|---|---|
| 101 papers | 19,475 citations | 59 h-index | 104 g-index |
| 104 ext. papers | 23,298 ext. citations | 15.3 avg, IF | 7.41 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 101 | Electrochemical and Molecular Assessment of Quinones as CO2-Binding Redox Molecules for Carbon Capture. *Journal of Physical Chemistry C*, **2022**, 126, 1389-1399 | 3.8 | 1 |
| 100 | Toward solvent-free continuous-flow electrochemically mediated carbon capture with high-concentration liquid quinone chemistry. *Joule*, **2022**, 6, 221-239 | 27.8 | 2 |
| 99 | Macrophage-mediated multi-mode drug release system for photothermal combined with anti-inflammatory therapy against postoperative recurrence of triple negative breast cancer. *International Journal of Pharmaceutics*, **2021**, 607, 120975 | 6.5 | 1 |
| 98 | Underpotential lithium plating on graphite anodes caused by temperature heterogeneity. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 29453-29461 | 11.5 | 30 |
| 97 | Electrochemically mediated carbon dioxide separation with quinone chemistry in salt-concentrated aqueous media. *Nature Communications*, **2020**, 11, 2278 | 17.4 | 24 |
| 96 | Improving Lithium Metal Composite Anodes with Seeding and Pillaring Effects of Silicon Nanoparticles. *ACS Nano*, **2020**, 14, 4601-4608 | 16.7 | 34 |
| 95 | Synergistic enhancement of electrocatalytic CO reduction to C oxygenates at nitrogen-doped nanodiamonds/Cu interface. *Nature Nanotechnology*, **2020**, 15, 131-137 | 28.7 | 92 |
| 94 | Ultralight and fire-extinguishing current collectors for high-energy and high-safety lithium-ion batteries. *Nature Energy*, **2020**, 5, 786-793 | 62.3 | 63 |
| 93 | Electrochemically mediated gating membrane with dynamically controllable gas transport. *Science Advances*, **2020**, 6, | 14.3 | 4 |
| 92 | Fast galvanic lithium corrosion involving a Kirkendall-type mechanism. *Nature Chemistry*, **2019**, 11, 382-389 | 17.6 | 100 |
| 91 | Wrinkled Graphene Cages as Hosts for High-Capacity Li Metal Anodes Shown by Cryogenic Electron Microscopy. *Nano Letters*, **2019**, 19, 1326-1335 | 11.5 | 136 |
| 90 | Challenges and opportunities towards fast-charging battery materials. *Nature Energy*, **2019**, 4, 540-550 | 62.3 | 566 |
| 89 | An Autotransferable g-C N Li -Modulating Layer toward Stable Lithium Anodes. *Advanced Materials*, **2019**, 31, e1900342 | 24 | 111 |
| 88 | Composite lithium electrode with mesoscale skeleton via simple mechanical deformation. *Science Advances*, **2019**, 5, eaau5655 | 14.3 | 57 |
| 87 | Lithium Metal Anode Materials Design: Interphase and Host. *Electrochemical Energy Reviews*, **2019**, 2, 509-517 | 29.3 | 94 |
| 86 | An Interconnected Channel-Like Framework as Host for Lithium Metal Composite Anodes. *Advanced Energy Materials*, **2019**, 9, 1802720 | 21.8 | 70 |
| 85 | Chemotherapy priming of the Pancreatic Tumor Microenvironment Promotes Delivery and Anti-Metastasis Efficacy of Intravenous Low-Molecular-Weight Heparin-Coated Lipid-siRNA Complex. *Theranostics*, **2019**, 9, 355-368 | 12.1 | 19 |

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| 84 | Quantitative investigation of polysulfide adsorption capability of candidate materials for Li-S batteries. *Energy Storage Materials*, **2018**, 13, 241-246 | 19.4 | 96 |
| 83 | An Aqueous Inorganic Polymer Binder for High Performance Lithium-Sulfur Batteries with Flame-Retardant Properties. *ACS Central Science*, **2018**, 4, 260-267 | 16.8 | 107 |
| 82 | High-efficiency oxygen reduction to hydrogen peroxide catalysed by oxidized carbon materials. *Nature Catalysis*, **2018**, 1, 156-162 | 36.5 | 632 |
| 81 | In Situ Investigation on the Nanoscale Capture and Evolution of Aerosols on Nanofibers. *Nano Letters*, **2018**, 18, 1130-1138 | 11.5 | 41 |
| 80 | Vertically Aligned and Continuous Nanoscale Ceramic-Polymer Interfaces in Composite Solid Polymer Electrolytes for Enhanced Ionic Conductivity. *Nano Letters*, **2018**, 18, 3829-3838 | 11.5 | 178 |
| 79 | Dual Receptor Targeting Cell Penetrating Peptide Modified Liposome for Glioma and Breast Cancer Postoperative Recurrence Therapy. *Pharmaceutical Research*, **2018**, 35, 130 | 4.5 | 16 |
| 78 | Effective treatment of the primary tumor and lymph node metastasis by polymeric micelles with variable particle sizes. *Journal of Controlled Release*, **2018**, 292, 67-77 | 11.7 | 33 |
| 77 | A general prelithiation approach for group IV elements and corresponding oxides. *Energy Storage Materials*, **2018**, 10, 275-281 | 19.4 | 56 |
| 76 | Enhanced glioma therapy by synergistic inhibition of autophagy and tyrosine kinase activity. *International Journal of Pharmaceutics*, **2018**, 536, 1-10 | 6.5 | 20 |
| 75 | Materials for lithium-ion battery safety. *Science Advances*, **2018**, 4, eaas9820 | 14.3 | 528 |
| 74 | Spectrally Selective Nanocomposite Textile for Outdoor Personal Cooling. *Advanced Materials*, **2018**, 30, e1802152 | 24 | 181 |
| 73 | Enhanced Tumor Retention Effect by Click Chemistry for Improved Cancer Immunochemotherapy. *ACS Applied Materials & Interfaces*, **2018**, 10, 17582-17593 | 9.5 | 28 |
| 72 | Efficient siRNA transfer to knockdown a placenta specific lncRNA using RGD-modified nano-liposome: A new preeclampsia-like mouse model. *International Journal of Pharmaceutics*, **2018** , 546, 115-124 | 6.5 | 16 |
| 71 | An Ultrastrong Double-Layer Nanodiamond Interface for Stable Lithium Metal Anodes. *Joule*, **2018**, 2, 1595-1609 | 27.8 | 116 |
| 70 | Solubility-mediated sustained release enabling nitrate additive in carbonate electrolytes for stable lithium metal anode. *Nature Communications*, **2018**, 9, 3656 | 17.4 | 234 |
| 69 | Fundamental study on the wetting property of liquid lithium. *Energy Storage Materials*, **2018**, 14, 345-350 | 19.4 | 117 |
| 68 | Stretchable Lithium Metal Anode with Improved Mechanical and Electrochemical Cycling Stability. *Joule*, **2018**, 2, 1857-1865 | 27.8 | 99 |
| 67 | A Silica-Aerogel-Reinforced Composite Polymer Electrolyte with High Ionic Conductivity and High Modulus. *Advanced Materials*, **2018**, 30, e1802661 | 24 | 242 |

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| 66 | Catalytic oxidation of Li2S on the surface of metal sulfides for Li-S batteries. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 840-845 | 11.5 | 742 |
| 65 | Sulfiphilic Nickel Phosphosulfide Enabled Li S Impregnation in 3D Graphene Cages for Li-S Batteries. *Advanced Materials*, **2017**, 29, 1603366 | 24 | 127 |
| 64 | Reviving the lithium metal anode for high-energy batteries. *Nature Nanotechnology*, **2017**, 12, 194-206 | 28.7 | 3302 |
| 63 | Identifying the Active Surfaces of Electrochemically Tuned LiCoO for Oxygen Evolution Reaction. *Journal of the American Chemical Society*, **2017**, 139, 6270-6276 | 16.4 | 115 |
| 62 | Three-dimensional stable lithium metal anode with nanoscale lithium islands embedded in ionically conductive solid matrix. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 4613-4618 | 11.5 | 241 |
| 61 | Nanoscale perspective: Materials designs and understandings in lithium metal anodes. *Nano Research*, **2017**, 10, 4003-4026 | 10 | 98 |
| 60 | Conformal Lithium Fluoride Protection Layer on Three-Dimensional Lithium by Nonhazardous Gaseous Reagent Freon. *Nano Letters*, **2017**, 17, 3731-3737 | 11.5 | 270 |
| 59 | Nanoscale ion intermixing induced activation of Fe2O3/MnO2 composites for application in lithium ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 8510-8518 | 13 | 47 |
| 58 | Solid-State Lithium-Sulfur Batteries Operated at 37 ℃ with Composites of Nanostructured LiLaZrO/Carbon Foam and Polymer. *Nano Letters*, **2017**, 17, 2967-2972 | 11.5 | 297 |
| 57 | Lithium Metal Anodes with an Adaptive "Solid-Liquid" Interfacial Protective Layer. *Journal of the American Chemical Society*, **2017**, 139, 4815-4820 | 16.4 | 352 |
| 56 | Polymer-Drug Nanoparticles Combine Doxorubicin Carrier and Heparin Bioactivity Functionalities for Primary and Metastatic Cancer Treatment. *Molecular Pharmaceutics*, **2017**, 14, 513-522 | 5.6 | 29 |
| 55 | An Artificial Solid Electrolyte Interphase with High Li-Ion Conductivity, Mechanical Strength, and Flexibility for Stable Lithium Metal Anodes. *Advanced Materials*, **2017**, 29, 1605531 | 24 | 581 |
| 54 | Tandem Peptide Based on Structural Modification of Poly-Arginine for Enhancing Tumor Targeting Efficiency and Therapeutic Effect. *ACS Applied Materials & Interfaces*, **2017**, 9, 2083-2092 | 9.5 | 16 |
| 53 | Transforming from planar to three-dimensional lithium with flowable interphase for solid lithium metal batteries. *Science Advances*, **2017**, 3, eaao0713 | 14.3 | 102 |
| 52 | Warming up human body by nanoporous metallized polyethylene textile. *Nature Communications*, **2017**, 8, 496 | 17.4 | 162 |
| 51 | Ultrahigh-current density anodes with interconnected Li metal reservoir through overlithiation of mesoporous AlF framework. *Science Advances*, **2017**, 3, e1701301 | 14.3 | 158 |
| 50 | Reactivation of dead sulfide species in lithium polysulfide flow battery for grid scale energy storage. *Nature Communications*, **2017**, 8, 462 | 17.4 | 38 |
| 49 | Engineering the surface of LiCoO2 electrodes using atomic layer deposition for stable high-voltage lithium ion batteries. *Nano Research*, **2017**, 10, 3754-3764 | 10 | 51 |

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| 48 | Design of Complex Nanomaterials for Energy Storage: Past Success and Future Opportunity. *Accounts of Chemical Research*, **2017**, 50, 2895-2905 | 24.3 | 198 |
| 47 | A Prussian blue route to nitrogen-doped graphene aerogels as efficient electrocatalysts for oxygen reduction with enhanced active site accessibility. *Nano Research*, **2017**, 10, 1213-1222 | 10 | 66 |
| 46 | Cell-penetrating peptides induce apoptosis and necrosis through specific mechanism and cause impairment of Na-K-ATPase and mitochondria. *Amino Acids*, **2017**, 49, 75-88 | 3.5 | 5 |
| 45 | Cabazitaxel and indocyanine green co-delivery tumor-targeting nanoparticle for improved antitumor efficacy and minimized drug toxicity. *Journal of Drug Targeting*, **2017**, 25, 179-187 | 5.4 | 7 |
| 44 | Lithium Metal Anodes: A Recipe for Protection. *Joule*, **2017**, 1, 649-650 | 27.8 | 31 |
| 43 | Rapid water disinfection using vertically aligned MoS nanofilms and visible light. *Nature Nanotechnology*, **2016**, 11, 1098-1104 | 28.7 | 514 |
| 42 | In Situ Electrochemically Derived Nanoporous Oxides from Transition Metal Dichalcogenides for Active Oxygen Evolution Catalysts. *Nano Letters*, **2016**, 16, 7588-7596 | 11.5 | 152 |
| 41 | Direct and continuous strain control of catalysts with tunable battery electrode materials. *Science*, **2016**, 354, 1031-1036 | 33.3 | 369 |
| 40 | Lithium-coated polymeric matrix as a minimum volume-change and dendrite-free lithium metal anode. *Nature Communications*, **2016**, 7, 10992 | 17.4 | 641 |
| 39 | Dual-functionalized liposomal delivery system for solid tumors based on RGD and a pH-responsive antimicrobial peptide. *Scientific Reports*, **2016**, 6, 19800 | 4.9 | 39 |
| 38 | Co-delivery of doxorubicin and P-gp inhibitor by a reduction-sensitive liposome to overcome multidrug resistance, enhance anti-tumor efficiency and reduce toxicity. *Drug Delivery*, **2016**, 23, 1130-43 | 7 | 53 |
| 37 | Development of an anti-microbial peptide-mediated liposomal delivery system: a novel approach towards pH-responsive anti-microbial peptides. *Drug Delivery*, **2016**, 23, 1163-70 | 7 | 16 |
| 36 | Roll-to-Roll Transfer of Electrospun Nanofiber Film for High-Efficiency Transparent Air Filter. *Nano Letters*, **2016**, 16, 1270-5 | 11.5 | 241 |
| 35 | Layered reduced graphene oxide with nanoscale interlayer gaps as a stable host for lithium metal anodes. *Nature Nanotechnology*, **2016**, 11, 626-32 | 28.7 | 1261 |
| 34 | Composite lithium metal anode by melt infusion of lithium into a 3D conducting scaffold with lithiophilic coating. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 2862-7 | 11.5 | 643 |
| 33 | High Ionic Conductivity of Composite Solid Polymer Electrolyte via In Situ Synthesis of Monodispersed SiO2 Nanospheres in Poly(ethylene oxide). *Nano Letters*, **2016**, 16, 459-65 | 11.5 | 535 |
| 32 | Metallurgically lithiated SiOx anode with high capacity and ambient air compatibility. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 7408-13 | 11.5 | 103 |
| 31 | Dual Receptor Recognizing Cell Penetrating Peptide for Selective Targeting, Efficient Intratumoral Diffusion and Synthesized Anti-Glioma Therapy. *Theranostics*, **2016**, 6, 177-91 | 12.1 | 70 |

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| 30 | Antitumor and Antimetastasis Activities of Heparin-based Micelle Served As Both Carrier and Drug. *ACS Applied Materials & Interfaces*, **2016**, 8, 9577-89 | 9.5 | 55 |
| 29 | All-Integrated Bifunctional Separator for Li Dendrite Detection via Novel Solution Synthesis of a Thermostable Polyimide Separator. *Journal of the American Chemical Society*, **2016**, 138, 11044-50 | 16.4 | 143 |
| 28 | Targeting delivery and deep penetration using multistage nanoparticles for triple-negative breast cancer. *RSC Advances*, **2015**, 5, 64303-64317 | 3.7 | 31 |
| 27 | Bifunctional non-noble metal oxide nanoparticle electrocatalysts through lithium-induced conversion for overall water splitting. *Nature Communications*, **2015**, 6, 7261 | 17.4 | 855 |
| 26 | Multifunctional Tandem Peptide Modified Paclitaxel-Loaded Liposomes for the Treatment of Vasculogenic Mimicry and Cancer Stem Cells in Malignant Glioma. *ACS Applied Materials & Interfaces*, **2015**, 7, 16792-801 | 9.5 | 55 |
| 25 | In Situ Electrochemical Oxidation Tuning of Transition Metal Disulfides to Oxides for Enhanced Water Oxidation. *ACS Central Science*, **2015**, 1, 244-51 | 16.8 | 314 |
| 24 | Centimeter-scale subwavelength photolithography using metal-coated elastomeric photomasks with modulated light intensity at the oblique sidewalls. *Langmuir*, **2015**, 31, 5005-13 | 4 | 8 |
| 23 | Electrochemical tuning of olivine-type lithium transition-metal phosphates as efficient water oxidation catalysts. *Energy and Environmental Science*, **2015**, 8, 1719-1724 | 35.4 | 142 |
| 22 | Mesoporous metal-organic frameworks with size-, shape-, and space-distribution-controlled pore structure. *Advanced Materials*, **2015**, 27, 2923-9 | 24 | 184 |
| 21 | High Tumor Penetration of Paclitaxel Loaded pH Sensitive Cleavable Liposomes by Depletion of Tumor Collagen I in Breast Cancer. *ACS Applied Materials & Interfaces*, **2015**, 7, 9691-701 | 9.5 | 78 |
| 20 | Liposomes Combined an Integrin $\beta_3$-Specific Vector with pH-Responsible Cell-Penetrating Property for Highly Effective Antiglioma Therapy through the Blood-Brain Barrier. *ACS Applied Materials & Interfaces*, **2015**, 7, 21442-54 | 9.5 | 47 |
| 19 | Integrin $\beta_3$ targeting activity study of different retro-inverso sequences of RGD and their potentiality in the designing of tumor targeting peptides. *Amino Acids*, **2015**, 47, 2533-9 | 3.5 | 11 |
| 18 | A pH-responsive cell-penetrating peptide-modified liposomes with active recognizing of integrin $\beta_3$ for the treatment of melanoma. *Journal of Controlled Release*, **2015**, 217, 138-50 | 11.7 | 78 |
| 17 | A novel antitumour strategy using bidirectional autophagic vesicles accumulation via initiative induction and the terminal restraint of autophagic flux. *Journal of Controlled Release*, **2015**, 199, 17-28 | 11.7 | 21 |
| 16 | Simultaneous delivery of therapeutic antagomirs with paclitaxel for the management of metastatic tumors by a pH-responsive anti-microbial peptide-mediated liposomal delivery system. *Journal of Controlled Release*, **2015**, 197, 208-18 | 11.7 | 56 |
| 15 | Well-Dispersed and Size-Controlled Supported Metal Oxide Nanoparticles Derived from MOF Composites and Further Application in Catalysis. *Small*, **2015**, 11, 3130-4 | 11 | 58 |
| 14 | Parallel near-field photolithography with metal-coated elastomeric masks. *Langmuir*, **2015**, 31, 1210-7 | 4 | 17 |
| 13 | Increased tumor targeted delivery using a multistage liposome system functionalized with RGD, TAT and cleavable PEG. *International Journal of Pharmaceutics*, **2014**, 468, 26-38 | 6.5 | 80 |

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| 12 | Designable Yolk–Shell [email protected] Petalous Heterostructures. *Chemistry of Materials*, **2014**, 26, 1119-1125 | 9.6 | 185 |
| 11 | Enhanced gene delivery efficiency of cationic liposomes coated with PEGylated hyaluronic acid for anti P-glycoprotein siRNA: a potential candidate for overcoming multi-drug resistance. *International Journal of Pharmaceutics*, **2014**, 477, 590-600 | 6.5 | 47 |
| 10 | Controlled incorporation of nanoparticles in metal-organic framework hybrid thin films. *Chemical Communications*, **2014**, 50, 4296-8 | 5.8 | 36 |
| 9 | Self-assembled metal-organic frameworks crystals for chemical vapor sensing. *Small*, **2014**, 10, 3672-6 | 11 | 65 |
| 8 | In situ synthesis of large-area single sub-10 nm nanoparticle arrays by polymer pen lithography. *Nanoscale*, **2014**, 6, 749-52 | 7.7 | 36 |
| 7 | Dual-phase spinel MnCo2O4 and spinel MnCo2O4/nanocarbon hybrids for electrocatalytic oxygen reduction and evolution. *ACS Applied Materials & Interfaces*, **2014**, 6, 12684-91 | 9.5 | 260 |
| 6 | Paclitaxel loaded liposomes decorated with a multifunctional tandem peptide for glioma targeting. *Biomaterials*, **2014**, 35, 4835-47 | 15.6 | 185 |
| 5 | A family of metal-organic frameworks exhibiting size-selective catalysis with encapsulated noble-metal nanoparticles. *Advanced Materials*, **2014**, 26, 4056-60 | 24 | 330 |
| 4 | Enhanced antitumor and anti-metastasis efficiency via combined treatment with CXCR4 antagonist and liposomal doxorubicin. *Journal of Controlled Release*, **2014**, 196, 324-31 | 11.7 | 36 |
| 3 | Synthesis and self-assembly of monodispersed metal-organic framework microcrystals. *Chemistry - an Asian Journal*, **2013**, 8, 69-72 | 4.5 | 98 |
| 2 | A pH-responsive α-helical cell penetrating peptide-mediated liposomal delivery system. *Biomaterials*, **2013**, 34, 7980-93 | 15.6 | 136 |
| 1 | Microencapsulation of dye- and drug-loaded particles for imaging and controlled release of multiple drugs. *Advanced Healthcare Materials*, **2012**, 1, 159-63 | 10.1 | 12 |