

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.

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 CO ₂ -Binding Redox Molecules for Carbon Capture. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1389-1399	3.8	1
100	Toward solvent-free continuous-flow electrochemically mediated carbon capture with high-concentration liquid quinone chemistry. <i>Joule</i> , 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. <i>International Journal of Pharmaceutics</i> , 2021 , 607, 120975	6.5	1
98	Underpotential lithium plating on graphite anodes caused by temperature heterogeneity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 29453-29461	11.5	30
97	Electrochemically mediated carbon dioxide separation with quinone chemistry in salt-concentrated aqueous media. <i>Nature Communications</i> , 2020 , 11, 2278	17.4	24
96	Improving Lithium Metal Composite Anodes with Seeding and Pillaring Effects of Silicon Nanoparticles. <i>ACS Nano</i> , 2020 , 14, 4601-4608	16.7	34
95	Synergistic enhancement of electrocatalytic CO reduction to C oxygenates at nitrogen-doped nanodiamonds/Cu interface. <i>Nature Nanotechnology</i> , 2020 , 15, 131-137	28.7	92
94	Ultralight and fire-extinguishing current collectors for high-energy and high-safety lithium-ion batteries. <i>Nature Energy</i> , 2020 , 5, 786-793	62.3	63
93	Electrochemically mediated gating membrane with dynamically controllable gas transport. <i>Science Advances</i> , 2020 , 6,	14.3	4
92	Fast galvanic lithium corrosion involving a Kirkendall-type mechanism. <i>Nature Chemistry</i> , 2019 , 11, 382-389	39.6	100
91	Wrinkled Graphene Cages as Hosts for High-Capacity Li Metal Anodes Shown by Cryogenic Electron Microscopy. <i>Nano Letters</i> , 2019 , 19, 1326-1335	11.5	136
90	Challenges and opportunities towards fast-charging battery materials. <i>Nature Energy</i> , 2019 , 4, 540-550	62.3	566
89	An Autotransferable g-C ₃ N ₄ Li ⁺ -Modulating Layer toward Stable Lithium Anodes. <i>Advanced Materials</i> , 2019 , 31, e1900342	24	111
88	Composite lithium electrode with mesoscale skeleton via simple mechanical deformation. <i>Science Advances</i> , 2019 , 5, eaau5655	14.3	57
87	Lithium Metal Anode Materials Design: Interphase and Host. <i>Electrochemical Energy Reviews</i> , 2019 , 2, 509-517	29.3	94
86	An Interconnected Channel-Like Framework as Host for Lithium Metal Composite Anodes. <i>Advanced Energy Materials</i> , 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. <i>Theranostics</i> , 2019 , 9, 355-368	12.1	19

84	Quantitative investigation of polysulfide adsorption capability of candidate materials for Li-S batteries. <i>Energy Storage Materials</i> , 2018 , 13, 241-246	19.4	96
83	An Aqueous Inorganic Polymer Binder for High Performance Lithium-Sulfur Batteries with Flame-Retardant Properties. <i>ACS Central Science</i> , 2018 , 4, 260-267	16.8	107
82	High-efficiency oxygen reduction to hydrogen peroxide catalysed by oxidized carbon materials. <i>Nature Catalysis</i> , 2018 , 1, 156-162	36.5	632
81	In Situ Investigation on the Nanoscale Capture and Evolution of Aerosols on Nanofibers. <i>Nano Letters</i> , 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. <i>Nano Letters</i> , 2018 , 18, 3829-3838	11.5	178
79	Dual Receptor Targeting Cell Penetrating Peptide Modified Liposome for Glioma and Breast Cancer Postoperative Recurrence Therapy. <i>Pharmaceutical Research</i> , 2018 , 35, 130	4.5	16
78	Effective treatment of the primary tumor and lymph node metastasis by polymeric micelles with variable particle sizes. <i>Journal of Controlled Release</i> , 2018 , 292, 67-77	11.7	33
77	A general prelithiation approach for group IV elements and corresponding oxides. <i>Energy Storage Materials</i> , 2018 , 10, 275-281	19.4	56
76	Enhanced glioma therapy by synergistic inhibition of autophagy and tyrosine kinase activity. <i>International Journal of Pharmaceutics</i> , 2018 , 536, 1-10	6.5	20
75	Materials for lithium-ion battery safety. <i>Science Advances</i> , 2018 , 4, eaas9820	14.3	528
74	Spectrally Selective Nanocomposite Textile for Outdoor Personal Cooling. <i>Advanced Materials</i> , 2018 , 30, e1802152	24	181
73	Enhanced Tumor Retention Effect by Click Chemistry for Improved Cancer Immunotherapy. <i>ACS Applied Materials & Interfaces</i> , 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. <i>International Journal of Pharmaceutics</i> , 2018 , 546, 115-124	6.5	16
71	An Ultrastrong Double-Layer Nanodiamond Interface for Stable Lithium Metal Anodes. <i>Joule</i> , 2018 , 2, 1595-1609	27.8	116
70	Solubility-mediated sustained release enabling nitrate additive in carbonate electrolytes for stable lithium metal anode. <i>Nature Communications</i> , 2018 , 9, 3656	17.4	234
69	Fundamental study on the wetting property of liquid lithium. <i>Energy Storage Materials</i> , 2018 , 14, 345-350	9.4	117
68	Stretchable Lithium Metal Anode with Improved Mechanical and Electrochemical Cycling Stability. <i>Joule</i> , 2018 , 2, 1857-1865	27.8	99
67	A Silica-Aerogel-Reinforced Composite Polymer Electrolyte with High Ionic Conductivity and High Modulus. <i>Advanced Materials</i> , 2018 , 30, e1802661	24	242

66	Catalytic oxidation of Li ₂ S on the surface of metal sulfides for Li-S batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 840-845	11.5	742
65	Sulphiphilic Nickel Phosphosulfide Enabled Li S Impregnation in 3D Graphene Cages for Li-S Batteries. <i>Advanced Materials</i> , 2017 , 29, 1603366	24	127
64	Reviving the lithium metal anode for high-energy batteries. <i>Nature Nanotechnology</i> , 2017 , 12, 194-206	28.7	3302
63	Identifying the Active Surfaces of Electrochemically Tuned LiCoO for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6270-6276	16.4	115
62	Three-dimensional stable lithium metal anode with nanoscale lithium islands embedded in ionically conductive solid matrix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4613-4618	11.5	241
61	Nanoscale perspective: Materials designs and understandings in lithium metal anodes. <i>Nano Research</i> , 2017 , 10, 4003-4026	10	98
60	Conformal Lithium Fluoride Protection Layer on Three-Dimensional Lithium by Nonhazardous Gaseous Reagent Freon. <i>Nano Letters</i> , 2017 , 17, 3731-3737	11.5	270
59	Nanoscale ion intermixing induced activation of Fe ₂ O ₃ /MnO ₂ composites for application in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8510-8518	13	47
58	Solid-State Lithium-Sulfur Batteries Operated at 37 °C with Composites of Nanostructured LiLaZrO/Carbon Foam and Polymer. <i>Nano Letters</i> , 2017 , 17, 2967-2972	11.5	297
57	Lithium Metal Anodes with an Adaptive "Solid-Liquid" Interfacial Protective Layer. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4815-4820	16.4	352
56	Polymer-Drug Nanoparticles Combine Doxorubicin Carrier and Heparin Bioactivity Functionalities for Primary and Metastatic Cancer Treatment. <i>Molecular Pharmaceutics</i> , 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. <i>Advanced Materials</i> , 2017 , 29, 1605531	24	581
54	Tandem Peptide Based on Structural Modification of Poly-Arginine for Enhancing Tumor Targeting Efficiency and Therapeutic Effect. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2083-2092	9.5	16
53	Transforming from planar to three-dimensional lithium with flowable interphase for solid lithium metal batteries. <i>Science Advances</i> , 2017 , 3, eaao0713	14.3	102
52	Warming up human body by nanoporous metallized polyethylene textile. <i>Nature Communications</i> , 2017 , 8, 496	17.4	162
51	Ultrahigh-current density anodes with interconnected Li metal reservoir through overlithiation of mesoporous ALF framework. <i>Science Advances</i> , 2017 , 3, e1701301	14.3	158
50	Reactivation of dead sulfide species in lithium polysulfide flow battery for grid scale energy storage. <i>Nature Communications</i> , 2017 , 8, 462	17.4	38
49	Engineering the surface of LiCoO ₂ electrodes using atomic layer deposition for stable high-voltage lithium ion batteries. <i>Nano Research</i> , 2017 , 10, 3754-3764	10	51

48	Design of Complex Nanomaterials for Energy Storage: Past Success and Future Opportunity. <i>Accounts of Chemical Research</i> , 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. <i>Nano Research</i> , 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. <i>Amino Acids</i> , 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. <i>Journal of Drug Targeting</i> , 2017 , 25, 179-187	5.4	7
44	Lithium Metal Anodes: A Recipe for Protection. <i>Joule</i> , 2017 , 1, 649-650	27.8	31
43	Rapid water disinfection using vertically aligned MoS nanofilms and visible light. <i>Nature Nanotechnology</i> , 2016 , 11, 1098-1104	28.7	514
42	In Situ Electrochemically Derived Nanoporous Oxides from Transition Metal Dichalcogenides for Active Oxygen Evolution Catalysts. <i>Nano Letters</i> , 2016 , 16, 7588-7596	11.5	152
41	Direct and continuous strain control of catalysts with tunable battery electrode materials. <i>Science</i> , 2016 , 354, 1031-1036	33.3	369
40	Lithium-coated polymeric matrix as a minimum volume-change and dendrite-free lithium metal anode. <i>Nature Communications</i> , 2016 , 7, 10992	17.4	641
39	Dual-functionalized liposomal delivery system for solid tumors based on RGD and a pH-responsive antimicrobial peptide. <i>Scientific Reports</i> , 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. <i>Drug Delivery</i> , 2016 , 23, 1130-437		53
37	Development of an anti-microbial peptide-mediated liposomal delivery system: a novel approach towards pH-responsive anti-microbial peptides. <i>Drug Delivery</i> , 2016 , 23, 1163-70	7	16
36	Roll-to-Roll Transfer of Electrospun Nanofiber Film for High-Efficiency Transparent Air Filter. <i>Nano Letters</i> , 2016 , 16, 1270-5	11.5	241
35	Layered reduced graphene oxide with nanoscale interlayer gaps as a stable host for lithium metal anodes. <i>Nature Nanotechnology</i> , 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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2862-7	11.5	643
33	High Ionic Conductivity of Composite Solid Polymer Electrolyte via In Situ Synthesis of Monodispersed SiO ₂ Nanospheres in Poly(ethylene oxide). <i>Nano Letters</i> , 2016 , 16, 459-65	11.5	535
32	Metallurgically lithiated SiO _x anode with high capacity and ambient air compatibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>Theranostics</i> , 2016 , 6, 177-91	12.1	70

30	Antitumor and Antimetastasis Activities of Heparin-based Micelle Served As Both Carrier and Drug. <i>ACS Applied Materials & Interfaces</i> , 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. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11044-50	16.4	143
28	Targeting delivery and deep penetration using multistage nanoparticles for triple-negative breast cancer. <i>RSC Advances</i> , 2015 , 5, 64303-64317	3.7	31
27	Bifunctional non-noble metal oxide nanoparticle electrocatalysts through lithium-induced conversion for overall water splitting. <i>Nature Communications</i> , 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. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16792-801	9.5	55
25	In Situ Electrochemical Oxidation Tuning of Transition Metal Disulfides to Oxides for Enhanced Water Oxidation. <i>ACS Central Science</i> , 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. <i>Langmuir</i> , 2015 , 31, 5005-13	4	8
23	Electrochemical tuning of olivine-type lithium transition-metal phosphates as efficient water oxidation catalysts. <i>Energy and Environmental Science</i> , 2015 , 8, 1719-1724	35.4	142
22	Mesoporous metal-organic frameworks with size-, shape-, and space-distribution-controlled pore structure. <i>Advanced Materials</i> , 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. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9691-701	9.5	78
20	Liposomes Combined an Integrin $\alpha_5\beta_1$ -Specific Vector with pH-Responsible Cell-Penetrating Property for Highly Effective Antiglioma Therapy through the Blood-Brain Barrier. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21442-54	9.5	47
19	Integrin $\alpha_5\beta_1$ targeting activity study of different retro-inverso sequences of RGD and their potentiality in the designing of tumor targeting peptides. <i>Amino Acids</i> , 2015 , 47, 2533-9	3.5	11
18	A pH-responsive cell-penetrating peptide-modified liposomes with active recognizing of integrin $\alpha_5\beta_1$ for the treatment of melanoma. <i>Journal of Controlled Release</i> , 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. <i>Journal of Controlled Release</i> , 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. <i>Journal of Controlled Release</i> , 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. <i>Small</i> , 2015 , 11, 3130-4	11	58
14	Parallel near-field photolithography with metal-coated elastomeric masks. <i>Langmuir</i> , 2015 , 31, 1210-7	4	17
13	Increased tumor targeted delivery using a multistage liposome system functionalized with RGD, TAT and cleavable PEG. <i>International Journal of Pharmaceutics</i> , 2014 , 468, 26-38	6.5	80

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