

# Liang 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.

51  
papers

1,711  
citations

24  
h-index

41  
g-index

51  
ext. papers

1,908  
ext. citations

6.3  
avg, IF

4.65  
L-index

#	Paper	IF	Citations
51	Fused deposition modeling (FDM) based 3D printing of microelectrodes and multi-electrode probes. <i>Electrochimica Acta</i> , <b>2021</b> , 365, 137279	6.7	9
50	Rational shaping of hydrogel by electrodeposition under fluid mechanics for electrochemical writing on complex shaped surfaces at microscale. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 129029	14.7	2
49	Electrochemical stripping analysis from micro-counter electrode. <i>Electrochimica Acta</i> , <b>2021</b> , 393, 1390956.7	6.7	0
48	Integrated probe for electrochemical analysis of small volume droplets. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 347, 130542	8.5	1
47	Electrochemical analysis of a microbial electrochemical snorkel in laboratory and constructed wetlands. <i>Bioelectrochemistry</i> , <b>2021</b> , 142, 107895	5.6	1
46	Scanning Gel Electrochemical Microscopy (SGECM): Lateral Physical Resolution by Current and Shear Force Feedback. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 6415-6422	7.8	7
45	Using nanomaterials as building blocks for electrochemical deposition: A mini review. <i>Electrochemistry Communications</i> , <b>2020</b> , 120, 106830	5.1	2
44	Ametryn detection by proton assisted transfer at a single micro-interface between two immiscible electrolyte solutions. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 877, 114745	4.1	2
43	Layer-by-Layer modification of graphite felt with MWCNT for vanadium redox flow battery. <i>Electrochimica Acta</i> , <b>2019</b> , 313, 131-140	6.7	15
42	In-situ synthesis of NiO foamed sheets on Ni foam as efficient cathode of battery-type supercapacitor. <i>Electrochimica Acta</i> , <b>2018</b> , 269, 62-69	6.7	35
41	Mesoporous Silica Thin Films for Improved Electrochemical Detection of Paraquat. <i>ACS Sensors</i> , <b>2018</b> , 3, 484-493	9.2	82
40	Electrochemical Deposition of Sol-Gel Films <b>2018</b> , 531-568		1
39	Scanning Gel Electrochemical Microscopy for Topography and Electrochemical Imaging. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 8889-8895	7.8	10
38	Scanning gel electrochemical microscopy (SGECM): The potentiometric measurements. <i>Electrochemistry Communications</i> , <b>2018</b> , 97, 64-67	5.1	10
37	Kinetics of the electrochemically-assisted deposition of sol-gel films. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 14972-14983	3.6	4
36	Localized Charge Transfer in Two-Dimensional Molybdenum Trioxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27045-27053	9.5	7
35	Electrochemical Deposition of Sol-Gel Films <b>2016</b> , 1-38		

34	Novel felt pseudocapacitor based on carbon nanotube/metal oxides. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 6578-6585	4.3	7
33	Electrochemical co-deposition of sol-gel/carbon nanotube composite thin films for antireflection and non-linear optics. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 1099-1105	7.1	11
32	Sol-gel Coatings by Electrochemical Deposition <b>2015</b> , 373-414		5
31	Layer-by-Layer Assembly of PEDOT:PSS and WO <sub>3</sub> Nanoparticles: Enhanced Electrochromic Coloration Efficiency and Mechanism Studies by Scanning Electrochemical Microscopy. <i>Electrochimica Acta</i> , <b>2015</b> , 174, 57-65	6.7	67
30	Important Implications of the Electrochemical Reduction of ITO. <i>Electrochimica Acta</i> , <b>2015</b> , 176, 1374-1387	7.1	41
29	One-pot sequential electrochemical deposition of multilayer poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonic acid)/tungsten trioxide hybrid films and their enhanced electrochromic properties. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2708-2717	13	64
28	Nanostructured electrochromic films by inkjet printing on large area and flexible transparent silver electrodes. <i>Nanoscale</i> , <b>2014</b> , 6, 4572-6	7.7	102
27	Preparation and characterization of alkylphosphonic acid self-assembled monolayers on titanium alloy by chemisorption and electrochemical deposition. <i>Langmuir</i> , <b>2014</b> , 30, 6791-9	4	41
26	Patterning carbon nanotubes with silane by scanning electrochemical microscopy. <i>Electrochemistry Communications</i> , <b>2014</b> , 48, 56-60	5.1	4
25	Nano to nanoelectrodeposition of WO <sub>3</sub> crystalline nanoparticles for electrochromic coatings. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 16224-16229	13	67
24	Electrochemically "writing" graphene from graphene oxide. <i>Small</i> , <b>2014</b> , 10, 3555-9	11	24
23	Electro-assist deposition of binary sol-gel films with graded structure. <i>Electrochimica Acta</i> , <b>2013</b> , 102, 212-218	6.7	13
22	High switching speed and coloration efficiency of titanium-doped vanadium oxide thin film electrochromic devices. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 7380	7.1	44
21	Electrochemical co-deposition of conductive polymer-silica hybrid thin films. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 10876-84	3.6	27
20	Self-assembled polymer layers of linear polyethylenimine for enhancing electrochromic cycling stability. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 3651	7.1	14
19	Improved barrier performance of metal alkoxide-modified methyltrimethoxysilane films. <i>Thin Solid Films</i> , <b>2012</b> , 520, 2052-2059	2.2	19
18	Discharge Performance of Alkaline Sulfide Fuel Cells Using Non-Precious Anode Catalysts. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , <b>2012</b> , 28, 90-94	3.8	2
17	Synthesis of foam-like freestanding Co <sub>3</sub> O <sub>4</sub> nanosheets with enhanced electrochemical activities. <i>Chemical Communications</i> , <b>2011</b> , 47, 3469-71	5.8	124

16	Electrochemically patterning sol-gel structures on conducting and insulating surfaces. <i>Chemical Communications</i> , <b>2011</b> , 47, 6909-11	5.8	37
15	Carbon nanotube yarns with high tensile strength made by a twisting and shrinking method. <i>Nanotechnology</i> , <b>2010</b> , 21, 045708	3.4	192
14	Electrodeposition of cerium (III)-modified bis-[triethoxysilypropyl]tetra-sulphide films on AA2024-T3 (aluminum alloy) for corrosion protection. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 3920-3926	4.4	44
13	Fabrication of indium tin oxides (ITO)-supported poly(3,4-ethylenedioxythiophene) electrodes coated with active IrO <sub>2</sub> layer for morphine electrooxidation. <i>Journal of Applied Electrochemistry</i> , <b>2010</b> , 40, 1699-1704	2.6	4
12	Structural and electrochemical properties of a porous nanostructured SnO <sub>2</sub> film electrode for lithium-ion batteries. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 194-197	5.1	29
11	Electro-assisted preparation of dodecyltrimethoxysilane/TiO <sub>2</sub> composite films for corrosion protection of AA2024-T3 (aluminum alloy). <i>Electrochimica Acta</i> , <b>2010</b> , 55, 3008-3014	6.7	48
10	Comment on electrodeposited silicate films: importance of supporting electrolyte. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 3199-200	7.8	8
9	Nitrate ions as cathodic alkalization promoters for the electro-assisted deposition of sol-gel thin films. <i>Scripta Materialia</i> , <b>2008</b> , 59, 297-300	5.6	15
8	Enhancement of Corrosion Performance of Epoxy Coatings by Chemical Modification With GPTMS Silane Monomer. <i>Journal of Adhesion Science and Technology</i> , <b>2008</b> , 22, 77-92	2	11
7	Improving the corrosion performance of epoxy coatings by chemical modification with silane monomers. <i>Surface and Coatings Technology</i> , <b>2007</b> , 201, 4789-4795	4.4	87
6	Electrodeposition of silane films on aluminum alloys for corrosion protection. <i>Progress in Organic Coatings</i> , <b>2007</b> , 58, 265-271	4.8	115
5	Novel bis-silane/TiO <sub>2</sub> bifunctional hybrid films for metal corrosion protection both under ultraviolet irradiation and in the dark. <i>Scripta Materialia</i> , <b>2007</b> , 57, 549-552	5.6	32
4	Effect of calcination temperature on electrocatalytic activities of Ti/IrO <sub>2</sub> electrodes in methanol aqueous solutions. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 6258-6267	6.7	46
3	Water uptake of epoxy coatings modified with $\gamma$ -APS silane monomer. <i>Progress in Organic Coatings</i> , <b>2006</b> , 57, 439-443	4.8	61
2	Improving the formation and protective properties of silane films by the combined use of electrodeposition and nanoparticles incorporation. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 538-545	6.7	69
1	Effects of electrodeposition potential on the corrosion properties of bis-1,2-[triethoxysilyl] ethane films on aluminum alloy. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 3944-3949	6.7	49