

# Long Luo

## List of Publications by Citations

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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.

43  
papers

1,542  
citations

22  
h-index

39  
g-index

53  
ext. papers

1,910  
ext. citations

8.4  
avg, IF

5.28  
L-index

#	Paper	IF	Citations
43	Electrogeneration of single nanobubbles at sub-50-nm-radius platinum nanodisk electrodes. <i>Langmuir</i> , <b>2013</b> , 29, 11169-75	4	121
42	Resistive-pulse analysis of nanoparticles. <i>Annual Review of Analytical Chemistry</i> , <b>2014</b> , 7, 513-35	12.5	115
41	Electrochemical Measurements of Single H <sub>2</sub> Nanobubble Nucleation and Stability at Pt Nanoelectrodes. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3539-44	6.4	114
40	Voltage-Rectified Current and Fluid Flow in Conical Nanopores. <i>Accounts of Chemical Research</i> , <b>2016</b> , 49, 2605-2613	24.3	107
39	Oxygen Reduction Reaction on Classically Immiscible Bimetallics: A Case Study of RhAu. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 2712-2716	3.8	102
38	Gas Bubbles in Electrochemical Gas Evolution Reactions. <i>Langmuir</i> , <b>2019</b> , 35, 5392-5408	4	82
37	Tunability of the Adsorbate Binding on Bimetallic Alloy Nanoparticles for the Optimization of Catalytic Hydrogenation. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5538-5546	16.4	78
36	Controlling Nanoparticle Dynamics in Conical Nanopores. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 7033-7041	7.1	74
35	Colorimetric Sensor Array for Discrimination of Heavy Metal Ions in Aqueous Solution Based on Three Kinds of Thiols as Receptors. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 4770-4775	7.8	68
34	Electrochemical Generation of a Hydrogen Bubble at a Recessed Platinum Nanopore Electrode. <i>Langmuir</i> , <b>2015</b> , 31, 4573-81	4	65
33	Low-voltage origami-paper-based electrophoretic device for rapid protein separation. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 12390-7	7.8	60
32	Electrochemistry of single nanobubbles. Estimating the critical size of bubble-forming nuclei for gas-evolving electrode reactions. <i>Faraday Discussions</i> , <b>2016</b> , 193, 223-240	3.6	53
31	Low-voltage paper isotachopheresis device for DNA focusing. <i>Lab on A Chip</i> , <b>2015</b> , 15, 4090-8	7.2	47
30	Paper-Based Sensor for Electrochemical Detection of Silver Nanoparticle Labels by Galvanic Exchange. <i>ACS Sensors</i> , <b>2016</b> , 1, 40-47	9.2	45
29	Efficient CO Oxidation Using Dendrimer-Encapsulated Pt Nanoparticles Activated with . <i>ACS Nano</i> , <b>2016</b> , 10, 8760-9	16.7	35
28	Alternating Current Electrolysis for Organic Electrosynthesis: Trifluoromethylation of (Hetero)arenes. <i>Organic Letters</i> , <b>2020</b> , 22, 6719-6723	6.2	32
27	Tunable negative differential electrolyte resistance in a conical nanopore in glass. <i>ACS Nano</i> , <b>2012</b> , 6, 6507-14	16.7	30

26	Correlation between Gas Bubble Formation and Hydrogen Evolution Reaction Kinetics at Nanoelectrodes. <i>Langmuir</i> , <b>2018</b> , 34, 4554-4559	4	26
25	Faradaic Ion Concentration Polarization on a Paper Fluidic Platform. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4294-4300	4.3	25
24	Experimental and Theoretical Structural Investigation of AuPt Nanoparticles Synthesized Using a Direct Electrochemical Method. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 6249-6259	16.4	24
23	Negative differential electrolyte resistance in a solid-state nanopore resulting from electroosmotic flow bistability. <i>ACS Nano</i> , <b>2014</b> , 8, 3023-30	16.7	23
22	Bubble-Nucleation-Based Method for the Selective and Sensitive Electrochemical Detection of Surfactants. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7744-7748	7.8	22
21	Hydrogen Bubble Formation at Hydrogen-Insertion Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 15421-15426	3.8	22
20	Highly efficient hydrogen evolution of platinum via tuning the interfacial dissolved-gas concentration. <i>Chemical Communications</i> , <b>2019</b> , 55, 1378-1381	5.8	18
19	Unusual Activity Trend for CO Oxidation on Pd(x)Au(140-x)@Pt Core@Shell Nanoparticle Electrocatalysts. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2562-8	6.4	17
18	1000-Fold Preconcentration of Per- and Polyfluorinated Alkyl Substances within 10 Minutes via Electrochemical Aerosol Formation. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 14352-14358	7.8	16
17	Reversible Electrochemical Gelation of Metal Chalcogenide Quantum Dots. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 12207-12215	16.4	15
16	Diastereoselective sp C-O Bond Formation via Visible Light-Induced, Copper-Catalyzed Cross-Couplings of Glycosyl Bromides with Aliphatic Alcohols. <i>ACS Catalysis</i> , <b>2020</b> , 10, 5990-6001	13.1	14
15	Alternating current electrolysis for organic synthesis. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 28, 1007-12	7.2	14
14	Structural Characterization of Rh and RhAu Dendrimer-Encapsulated Nanoparticles. <i>Langmuir</i> , <b>2017</b> , 33, 12434-12442	4	12
13	Shape-controlled electrodeposition of single Pt nanocrystals onto carbon nanoelectrodes. <i>Faraday Discussions</i> , <b>2018</b> , 210, 267-280	3.6	12
12	Electrochemistry of nanobubbles. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 22, 102-109	7.2	11
11	A reagentless signal-on architecture for electronic, real-time copper sensors based on self-cleavage of DNazymes. <i>Analytical Methods</i> , <b>2010</b> , 2, 627	3.2	8
10	Quantum Dot Assembly Driven by Electrochemically Generated Metal-Ion Crosslinkers. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4522-4528	9.6	4
9	Atomically dispersed Pb ionic sites in PbCdSe quantum dot gels enhance room-temperature NO sensing. <i>Nature Communications</i> , <b>2021</b> , 12, 4895	17.4	4

8	Subnano-FeOx Clusters Anchored in an Ultrathin Amorphous Al <sub>2</sub> O <sub>3</sub> Nanosheet for Styrene Epoxidation. <i>ACS Catalysis</i> , <b>2021</b> , 11, 11542-11550	13.1	4
7	Photoexcited NO Enables Accelerated Response and Recovery Kinetics in Light-Activated NO Gas Sensing. <i>ACS Sensors</i> , <b>2021</b> ,	9.2	3
6	Lowering Interfacial Dissolved Gas Concentration for Highly Efficient Hydrazine Oxidation at Platinum by Fluorosurfactant Modulation. <i>ChemElectroChem</i> , <b>2020</b> , 7, 55-58	4.3	3
5	Electrochemical Quantification of Corrosion Mitigation on Iron Surfaces with Gallium(III) and Zinc(II) Metallosurfactants. <i>Langmuir</i> , <b>2020</b> , 36, 14173-14180	4	3
4	Harnessing bubble behaviors for developing new analytical strategies. <i>Analyst, The</i> , <b>2021</b> , 145, 7782-7795		3
3	A Mass Transfer-Based Method for Controlled Electrosynthesis and Organization of Tetrathiafulvalene Bromide Micro/Nanowires. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, H63-H69 <sup>3.9</sup>		2
2	A Molecular Approach for Mitigation of Aluminum Pitting based on Films of Zinc(II) and Gallium(III) Metallosurfactants. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 14048-14053	4.8	1
1	Factors that influence hydrogen binding at metal-atop sites. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 024703		1