Hong Liu

List of Publications by Year in Descending Order

48 papers	2,034 citations	21 h-index	45 g-index
48 ext. papers	2,391 ext. citations	8.6 avg, IF	5.53 L-index

#	Paper	IF	Citations
48	Three-dimensional photonic nitrocellulose for minimally invasive detection of biomarker in tumor interstitial fluid. *Chemical Engineering Journal*, **2022**, 432, 134234	14.7	0
47	Water splitting-assisted electrocatalysis based on dendrimer-encapsulated Au nanoparticles for perspiration glucose analysis. *Journal of Electroanalytical Chemistry*, **2022**, 912, 116254	4.1	0
46	Mercury thermometer-inspired test strip for concentration cell-based potentiometric detection of salivary □amylase.. *Analytica Chimica Acta*, **2022**, 1206, 339770	6.6	2
45	Emerging Tumor-on-Chips with Electrochemical Biosensors. *TrAC - Trends in Analytical Chemistry*, **2022**, 116640	14.6	2
44	Fetal Movement Detection by Wearable Accelerometer Duo Based on Machine Learning. *IEEE Sensors Journal*, **2022**, 1-1	4	1
43	Electrochemical DNA synthesis and sequencing on a single electrode with scalability for integrated data storage. *Science Advances*, **2021**, 7, eabk0100	14.3	1
42	Uncertainties in synthetic DNA-based data storage. *Nucleic Acids Research*, **2021**, 49, 5451-5469	20.1	5
41	Robust Heart Rate Monitoring by a Single Wrist-Worn Accelerometer Based on Signal Decomposition. *IEEE Sensors Journal*, **2021**, 21, 15962-15971	4	2
40	Multifunctional hydrogel microsphere with reflection in near-infrared region for in vivo pH monitoring and drug release in tumor microenvironment. *Chemical Engineering Journal*, **2021**, 421, 127873	14.7	4
39	Magnetic Printing of Liquid Metal for Perceptive Soft Actuators with Embodied Intelligence. *ACS Applied Materials & Interfaces*, **2021**, 13, 5574-5582	9.5	18
38	Wearable capillary microfluidics for continuous perspiration sensing. *Talanta*, **2020**, 212, 120786	6.2	21
37	Wearable electrochemical sensors for noninvasive monitoring of health□ perspective. *Current Opinion in Electrochemistry*, **2020**, 23, 42-46	7.2	13
36	Micro-/Nanostructured Interface for Liquid Manipulation and Its Applications. *Small*, **2020**, 16, e1903849	11	39
35	High-Resolution Patterning of Liquid Metal on Hydrogel for Flexible, Stretchable, and Self-Healing Electronics. *Advanced Electronic Materials*, **2020**, 6, 1900721	6.4	34
34	Biomimetic Meta-Structured Electro-Microfluidics. *Advanced Functional Materials*, **2019**, 29, 1906745	15.6	12
33	Flourishing Smart Flexible Membranes Beyond Paper. *Analytical Chemistry*, **2019**, 91, 4224-4234	7.8	11
32	Integration of patterned photonic nitrocellulose and microfluidic chip for fluorescent point-of-care testing of multiple targets. *New Journal of Chemistry*, **2019**, 43, 4808-4814	3.6	1

31	A Versatile Approach for Direct Patterning of Liquid Metal Using Magnetic Field. *Advanced Functional Materials*, **2019**, 29, 1901370	15.6	67
30	Bio-inspired photonic crystals for naked eye quantification of nucleic acids. *Analyst, The*, **2019**, 144, 5413-5419	5	8
29	Efficient isolation and sensitive quantification of extracellular vesicles based on an integrated ExoID-Chip using photonic crystals. *Lab on A Chip*, **2019**, 19, 2897-2904	7.2	29
28	Water Splitting-Assisted Electrocatalytic Oxidation of Glucose with a Metal-Organic Framework for Wearable Nonenzymatic Perspiration Sensing. *Analytical Chemistry*, **2019**, 91, 10764-10771	7.8	39
27	Bioinspired multistructured paper microfluidics for POCT. *Lab on A Chip*, **2019**, 19, 3602-3608	7.2	14
26	Concentration cell-based potentiometric analysis for point-of-care testing with minimum background. *Analytica Chimica Acta*, **2019**, 1046, 110-114	6.6	3
25	Cardiomyocyte-Driven Structural Color Actuation in Anisotropic Inverse Opals. *ACS Nano*, **2019**, 13, 796-802	16.7	66
24	Electrocatalytic oxidation of glucose on bronze for monitoring of saliva glucose using a smart toothbrush. *Sensors and Actuators B: Chemical*, **2019**, 285, 56-61	8.5	31
23	Visualized Quantitation of Trace Nucleic Acids Based on the Coffee-Ring Effect on Colloid-Crystal Substrates. *Langmuir*, **2019**, 35, 248-253	4	12
22	Bioinspired Kirigami Fish-Based Highly Stretched Wearable Biosensor for Human Biochemical–Physiological Hybrid Monitoring. *Advanced Materials Technologies*, **2018**, 3, 1700308	6.8	40
21	Toward Quantitative Chemical Analysis Using a Ruler on Paper: An Approach to Transduce Color to Length Based on Coffee-Ring Effect. *Analytical Chemistry*, **2018**, 90, 1482-1486	7.8	35
20	Recent biomedical applications of bio-sourced materials. *Bio-Design and Manufacturing*, **2018**, 1, 26-44	4.7	10
19	Flexible Electronics Based on Micro/Nanostructured Paper. *Advanced Materials*, **2018**, 30, e1801588	24	185
18	A bio-inspired photonic nitrocellulose array for ultrasensitive assays of single nucleic acids. *Analyst, The*, **2018**, 143, 4559-4565	5	15
17	Ultrasensitive point-of-care testing of arsenic based on a catalytic reaction of unmodified gold nanoparticles. *New Journal of Chemistry*, **2018**, 42, 14857-14862	3.6	3
16	Fabric-Based Ion Concentration Polarization for Pump-Free Water Desalination. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 99-103	8.3	13
15	Converting colour to length based on the coffee-ring effect for quantitative immunoassays using a ruler as readout. *Lab on A Chip*, **2018**, 18, 271-275	7.2	28
14	Generating Microdroplet Array on Photonic Pseudo-paper for Absolute Quantification of Nucleic Acids. *ACS Applied Materials & Interfaces*, **2018**, 10, 39144-39150	9.5	25

13	Nonenzymatic Wearable Sensor for Electrochemical Analysis of Perspiration Glucose. *ACS Sensors*, **2018**, 3, 1135-1141	9.2	65
12	Patterned Photonic Nitrocellulose for Pseudopaper ELISA. *Analytical Chemistry*, **2017**, 89, 7727-7733	7.8	38
11	Transpiration-Inspired Fabrication of Opal Capillary with Multiple Heterostructures for Multiplex Aptamer-Based Fluorescent Assays. *ACS Applied Materials & Interfaces*, **2017**, 9, 32577-32582	9.5	18
10	Vertical Paper Analytical Devices Fabricated Using the Principles of Quilling and Kirigami. *Scientific Reports*, **2017**, 7, 7255	4.9	13
9	Patterned Photonic Nitrocellulose for Pseudo-Paper Microfluidics. *Analytical Chemistry*, **2016**, 88, 5424-9	7.8	52
8	Smartphone-based point-of-care testing of salivary □-amylase for personal psychological measurement. *Analyst, The*, **2015**, 140, 7399-406	5	54
7	Bottom-up fabrication of paper-based microchips by blade coating of cellulose microfibers on a patterned surface. *Langmuir*, **2014**, 30, 15041-6	4	20
6	Paper-based SlipPAD for high-throughput chemical sensing. *Analytical Chemistry*, **2013**, 85, 4263-7	7.8	91
5	Paper-based electrochemical sensing platform with integral battery and electrochromic read-out. *Analytical Chemistry*, **2012**, 84, 2528-32	7.8	204
4	Aptamer-Based Origami Paper Analytical Device for Electrochemical Detection of Adenosine. *Angewandte Chemie*, **2012**, 124, 7031-7034	3.6	73
3	Aptamer-based origami paper analytical device for electrochemical detection of adenosine. *Angewandte Chemie - International Edition*, **2012**, 51, 6925-8	16.4	216
2	Three-dimensional paper microfluidic devices assembled using the principles of origami. *Journal of the American Chemical Society*, **2011**, 133, 17564-6	16.4	397
1	Nonenzymatic Electrochemical Sensor for Wearable Interstitial Fluid Glucose Monitoring. *Electroanalysis*,	3	4