Hong Liu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7104882/publications.pdf

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47	2,811	236912	206102
papers	citations	25 h-index	48 g-index

48	48	48	3611
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Three-Dimensional Paper Microfluidic Devices Assembled Using the Principles of Origami. Journal of the American Chemical Society, 2011, 133, 17564-17566.	13.7	466
2	Flexible Electronics Based on Micro/Nanostructured Paper. Advanced Materials, 2018, 30, e1801588.	21.0	249
3	Aptamerâ€Based Origami Paper Analytical Device for Electrochemical Detection of Adenosine. Angewandte Chemie - International Edition, 2012, 51, 6925-6928.	13.8	239
4	Paper-Based Electrochemical Sensing Platform with Integral Battery and Electrochromic Read-Out. Analytical Chemistry, 2012, 84, 2528-2532.	6.5	219
5	A Versatile Approach for Direct Patterning of Liquid Metal Using Magnetic Field. Advanced Functional Materials, 2019, 29, 1901370.	14.9	123
6	Nonenzymatic Wearable Sensor for Electrochemical Analysis of Perspiration Glucose. ACS Sensors, 2018, 3, 1135-1141.	7.8	112
7	Cardiomyocyte-Driven Structural Color Actuation in Anisotropic Inverse Opals. ACS Nano, 2019, 13, 796-802.	14.6	99
8	Paper-Based SlipPAD for High-Throughput Chemical Sensing. Analytical Chemistry, 2013, 85, 4263-4267.	6.5	92
9	Highâ€Resolution Patterning of Liquid Metal on Hydrogel for Flexible, Stretchable, and Selfâ€Healing Electronics. Advanced Electronic Materials, 2020, 6, 1900721.	5.1	76
10	Microâ€Nanostructured Interface for Liquid Manipulation and Its Applications. Small, 2020, 16, e1903849.	10.0	70
11	Bioinspired Kirigami Fishâ€Based Highly Stretched Wearable Biosensor for Human Biochemicalâ€“Physiological Hybrid Monitoring. Advanced Materials Technologies, 2018, 3, 1700308.	5.8	69
12	Patterned Photonic Nitrocellulose for Pseudo-Paper Microfluidics. Analytical Chemistry, 2016, 88, 5424-5429.	6.5	64
13	Smartphone-based point-of-care testing of salivary Î±-amylase for personal psychological measurement. Analyst, The, 2015, 140, 7399-7406.	3.5	62
14	Water Splitting-Assisted Electrocatalytic Oxidation of Glucose with a Metalâ€“Organic Framework for Wearable Nonenzymatic Perspiration Sensing. Analytical Chemistry, 2019, 91, 10764-10771.	6.5	62
15	Electrocatalytic oxidation of glucose on bronze for monitoring of saliva glucose using a smart toothbrush. Sensors and Actuators B: Chemical, 2019, 285, 56-61.	7.8	57
16	Magnetic Printing of Liquid Metal for Perceptive Soft Actuators with Embodied Intelligence. ACS Applied Materials & Interfaces, 2021, 13, 5574-5582.	8.0	50
17	Patterned Photonic Nitrocellulose for Pseudopaper ELISA. Analytical Chemistry, 2017, 89, 7727-7733.	6.5	45
18	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.	6.0	45

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19	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.	6.5	44
20	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.	6.0	38
21	Generating Microdroplet Array on Photonic Pseudo-paper for Absolute Quantification of Nucleic Acids. ACS Applied Materials & Interfaces, 2018, 10, 39144-39150.	8.0	34
22	Emerging tumor-on-chips with electrochemical biosensors. TrAC - Trends in Analytical Chemistry, 2022, 153, 116640.	11.4	32
23	Wearable capillary microfluidics for continuous perspiration sensing. Talanta, 2020, 212, 120786.	5.5	31
24	Bioinspired multistructured paper microfluidics for POCT. Lab on A Chip, 2019, 19, 3602-3608.	6.0	29
25	Electrochemical DNA synthesis and sequencing on a single electrode with scalability for integrated data storage. Science Advances, 2021, 7, eabk0100.	10.3	27
26	Uncertainties in synthetic DNA-based data storage. Nucleic Acids Research, 2021, 49, 5451-5469.	14.5	26
27	Wearable electrochemical sensors for noninvasive monitoring of healthâ€”a perspective. Current Opinion in Electrochemistry, 2020, 23, 42-46.	4.8	24
28	Bottom-Up Fabrication of Paper-Based Microchips by Blade Coating of Cellulose Microfibers on a Patterned Surface. Langmuir, 2014, 30, 15041-15046.	3.5	23
29	A bio-inspired photonic nitrocellulose array for ultrasensitive assays of single nucleic acids. Analyst, The, 2018, 143, 4559-4565.	3.5	21
30	Biomimetic Metaâ€Structured Electroâ€Microfluidics. Advanced Functional Materials, 2019, 29, 1906745.	14.9	21
31	Transpiration-Inspired Fabrication of Opal Capillary with Multiple Heterostructures for Multiplex Aptamer-Based Fluorescent Assays. ACS Applied Materials & Interfaces, 2017, 9, 32577-32582.	8.0	19
32	Visualized Quantitation of Trace Nucleic Acids Based on the Coffee-Ring Effect on Colloid-Crystal Substrates. Langmuir, 2019, 35, 248-253.	3.5	17
33	Fabric-Based Ion Concentration Polarization for Pump-Free Water Desalination. ACS Sustainable Chemistry and Engineering, 2018, 6, 99-103.	6.7	16
34	Vertical Paper Analytical Devices Fabricated Using the Principles of Quilling and Kirigami. Scientific Reports, 2017, 7, 7255.	3.3	15
35	Recent biomedical applications of bio-sourced materials. Bio-Design and Manufacturing, 2018, 1, 26-44.	7.7	13
36	Flourishing Smart Flexible Membranes Beyond Paper. Analytical Chemistry, 2019, 91, 4224-4234.	6.5	13

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37	Bio-inspired photonic crystals for naked eye quantification of nucleic acids. Analyst, The, 2019, 144, 5413-5419.	3.5	12
38	Robust Heart Rate Monitoring by a Single Wrist-Worn Accelerometer Based on Signal Decomposition. IEEE Sensors Journal, 2021, 21, 15962-15971.	4.7	12
39	Fetal Movement Detection by Wearable Accelerometer Duo Based on Machine Learning. IEEE Sensors Journal, 2022, 22, 11526-11534.	4.7	11
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.	12.7	10
41	Nonenzymatic Electrochemical Sensor for Wearable Interstitial Fluid Glucose Monitoring. Electroanalysis, 2022, 34, 415-422.	2.9	10
42	Three-dimensional photonic nitrocellulose for minimally invasive detection of biomarker in tumor interstitial fluid. Chemical Engineering Journal, 2022, 432, 134234.	12.7	10
43	Ultrasensitive point-of-care testing of arsenic based on a catalytic reaction of unmodified gold nanoparticles. New Journal of Chemistry, 2018, 42, 14857-14862.	2.8	5
44	Mercury thermometer-inspired test strip for concentration cell-based potentiometric detection of salivary Î±-amylase. Analytica Chimica Acta, 2022, 1206, 339770.	5.4	5
45	Concentration cell-based potentiometric analysis for point-of-care testing with minimum background. Analytica Chimica Acta, 2019, 1046, 110-114.	5.4	4
46	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.	2.8	3
47	Water splitting-assisted electrocatalysis based on dendrimer-encapsulated Au nanoparticles for perspiration glucose analysis. Journal of Electroanalytical Chemistry, 2022, 912, 116254.	3.8	3