

# Sichun Zhang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1881760/sichun-zhang-publications-by-year.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

2,759  
citations

28  
h-index

49  
g-index

105  
ext. papers

3,161  
ext. citations

6.4  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
102	Dynamic metabolic change of cancer cells induced by natural killer cells at the single-cell level studied by label-free mass cytometry.. <i>Chemical Science</i> , <b>2022</b> , 13, 1641-1647	9.4	1
101	Rapid quantitative analysis of hormones in serum by multilayer paper spray MS: Free MS from HPLC. <i>Talanta</i> , <b>2022</b> , 237, 122900	6.2	1
100	Arsenic retention in erythrocytes and excessive erythrophagocytosis is related to low selenium status by impaired redox homeostasis.. <i>Redox Biology</i> , <b>2022</b> , 52, 102321	11.3	0
99	Rapid Disulfide Mapping in Peptides and Proteins by $\gamma$ -Chloroperoxybenzoic Acid (CPBA) Oxidation and Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 14618-14625	7.8	
98	Reveal heterogeneous motion states in single nanoparticle trajectory using its own history. <i>Science China Chemistry</i> , <b>2021</b> , 64, 302-312	7.9	1
97	Identification and Spatial Mapping of Microplastic Standards in Paramecia by Secondary-Ion Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 5521-5528	7.8	4
96	A fluorescent nanoprobe based on cell-penetrating peptides and quantum dots for ratiometric monitoring of pH fluctuation in lysosomes. <i>Talanta</i> , <b>2021</b> , 227, 122208	6.2	4
95	Discriminating Leukemia Cellular Heterogeneity and Screening Metabolite Biomarker Candidates using Label-Free Mass Cytometry. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 10282-10291	7.8	0
94	Combination of Structured Illumination Microscopy with Hyperspectral Imaging for Cell Analysis. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 10056-10064	7.8	2
93	Dynamic Monitoring of Phase-Separated Biomolecular Condensates by Photoluminescence Lifetime Imaging. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 2988-2995	7.8	6
92	Site-Specific Scissors Based on Myeloperoxidase for Phosphorothioate DNA. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12361-12368	16.4	3
91	Uncover Single Nanoparticle Dynamics on Live Cell Membrane with Data-Driven Historical Experience Analysis. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 9559-9567	7.8	
90	Simultaneous determination of gastric cancer biomarkers pepsinogen PGI/PGII using element tagged immunoassay coupled with inductively coupled plasma mass spectrometry detection. <i>Journal of Clinical Laboratory Analysis</i> , <b>2020</b> , 34, e23287	3	5
89	Homogeneous multiplexed digital detection of microRNA with ligation-rolling circle amplification. <i>Chemical Communications</i> , <b>2020</b> , 56, 5409-5412	5.8	17
88	The screening of intermediates in a ruthenium and iridium ion-catalyzed gas-phase reaction of ethanol converting to butanol by ICP-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2020</b> , 35, 804-809	3.7	4
87	Simultaneous multicolour imaging using quantum dot structured illumination microscopy. <i>Journal of Microscopy</i> , <b>2020</b> , 277, 32-41	1.9	1
86	Development of Pico-ESI-MS for Single-Cell Metabolomics Analysis. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2064, 31-59	1.4	0

85	In situ monitoring of catalytic reaction on single nanoporous gold nanowire with tuneable SERS and catalytic activity. <i>Talanta</i> , <b>2020</b> , 218, 121181	6.2	2
84	Development and evaluation of an element-tagged immunoassay coupled with inductively coupled plasma mass spectrometry detection: can we apply the new assay in the clinical laboratory?. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2020</b> , 58, 873-882	5.9	4
83	Evaluation of an Element-Tagged Duplex Immunoassay Coupled with Inductively Coupled Plasma Mass Spectrometry Detection: A Further Study for the Application of the New Assay in Clinical Laboratory. <i>Molecules</i> , <b>2020</b> , 25,	4.8	4
82	Rhodium (II)-Catalyzed Synthesis of Tetracyclic 3,4-Fused Indoles and Dihydroindoles. <i>Catalysts</i> , <b>2020</b> , 10, 920	4	2
81	A multiplex bacterial assay using an element-labeled strategy for 16S rRNA detection. <i>Analyst, The</i> , <b>2020</b> , 145, 6821-6825	5	1
80	Tuning the p of Carboxyfluorescein with Arginine-Rich Cell-Penetrating Peptides for Intracellular pH Imaging. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 9168-9173	7.8	0
79	Label-free Mass Cytometry for Unveiling Cellular Metabolic Heterogeneity. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 9777-9783	7.8	31
78	Switching Carbon Nanodots from Single Emission to Dual Emission by One-Step Electrochemical Tailoring in Alkaline Alcohols: Implications for Sensing and Bioimaging. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 2776-2784	5.6	6
77	Quantitation of Glucose-phosphate in Single Cells by Microwell-Based Nanoliter Droplet Microextraction and Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 5613-5620	7.8	21
76	Chemical-Modified Nucleotide-Based Elemental Tags for High-Sensitive Immunoassay. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 5980-5986	7.8	28
75	Rapid analysis of chemical warfare agents by metal needle-enhanced low-temperature plasma mass spectrometry. <i>Analytical Methods</i> , <b>2019</b> , 11, 3721-3726	3.2	5
74	Lipid Alterations during Zebrafish Embryogenesis Revealed by Dynamic Mass Spectrometry Profiling with C=C Specificity. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2019</b> , 30, 2646-2654	7.5	4
73	Cell-penetrating peptide-modified quantum dots as a ratiometric nanobiosensor for the simultaneous sensing and imaging of lysosomes and extracellular pH. <i>Chemical Communications</i> , <b>2019</b> , 56, 145-148	5.8	10
72	A Highly Sensitive Chemiluminescent Probe for Detecting Nitroreductase and Imaging in Living Animals. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1384-1390	7.8	33
71	A Novel Chemiluminescent Probe Based on 1,2-Dioxetane Scaffold for Imaging Cysteine in Living Mice. <i>ACS Sensors</i> , <b>2019</b> , 4, 87-92	9.2	30
70	Rapid screening of gaseous catalysts in methane activation using ICP-QQQ-MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2018</b> , 33, 563-568	3.7	6
69	Rapid Analysis of Unsaturated Fatty Acids on Paper-Based Analytical Devices via Online Epoxidation and Ambient Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 2070-2078	7.8	32
68	Simultaneous competitive and sandwich formats multiplexed immunoassays based on ICP-MS detection. <i>Talanta</i> , <b>2018</b> , 185, 237-242	6.2	11

67	A cell-penetrating ratiometric probe for simultaneous measurement of lysosomal and cytosolic pH change. <i>Talanta</i> , <b>2018</b> , 178, 355-361	6.2	8
66	Gold nanoparticles-enhanced ion-transmission mass spectrometry for highly sensitive detection of chemical warfare agent simulants. <i>Talanta</i> , <b>2018</b> , 190, 403-409	6.2	7
65	Combination of Droplet Extraction and Pico-ESI-MS Allows the Identification of Metabolites from Single Cancer Cells. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 9897-9903	7.8	42
64	An iridium complex-based probe for photoluminescence lifetime imaging of human carboxylesterase 2 in living cells. <i>Chemical Communications</i> , <b>2018</b> , 54, 9027-9030	5.8	15
63	Characterize Collective Lysosome Heterogeneous Dynamics in Live Cell with a Space- and Time-Resolved Method. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 9138-9147	7.8	5
62	Vacuum Ultraviolet Laser Desorption/Ionization Mass Spectrometry Imaging of Single Cells with Submicron Craters. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 10009-10015	7.8	24
61	High yield accelerated reactions in nonvolatile microthin films: chemical derivatization for analysis of single-cell intracellular fluid. <i>Chemical Science</i> , <b>2018</b> , 9, 7779-7786	9.4	17
60	Assembling of Sulfur Quantum Dots in Fission of Sublimed Sulfur. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 7878-7884	16.4	90
59	A Cell-Surface-Specific Ratiometric Fluorescent Probe for Extracellular pH Sensing with Solid-State Fluorophore. <i>ACS Sensors</i> , <b>2018</b> , 3, 2278-2285	9.2	25
58	Ratiometric quantification of $\beta$ -microglobulin antigen in human serum based on elemental labeling strategy. <i>Talanta</i> , <b>2018</b> , 189, 249-253	6.2	3
57	Detecting Low-Abundance Molecules at Single-Cell Level by Repeated Ion Accumulation in Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2275-2281	7.8	15
56	Pinpoint the Positions of Single Nucleotide Polymorphisms by a Nanocluster Dimer. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2622-2627	7.8	16
55	Graphene Oxide as a Novel Evenly Continuous Phase Matrix for TOF-SIMS. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2017</b> , 28, 399-408	3.5	12
54	Simultaneous detection of three gynecological tumor biomarkers in clinical serum samples using an ICP-MS-based magnetic immunoassay. <i>Analytical Methods</i> , <b>2017</b> , 9, 2546-2552	3.2	5
53	Spatiotemporal fluorescence imaging of newly synthesized proteins in normal and cancerous cells with anticarcinogen modulation. <i>Talanta</i> , <b>2017</b> , 162, 641-647	6.2	3
52	Plasma-based ambient mass spectrometry: a step forward to practical applications. <i>Analytical Methods</i> , <b>2017</b> , 9, 4908-4923	3.2	12
51	Simultaneous Imaging of Three Tumor-Related mRNAs in Living Cells with a DNA Tetrahedron-Based Multicolor Nanoprobe. <i>ACS Sensors</i> , <b>2017</b> , 2, 735-739	9.2	49
50	Cell-Penetrating Peptide Spirolactam Derivative as a Reversible Fluorescent pH Probe for Live Cell Imaging. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1238-1243	7.8	24

49	Continuously evolving 'chemical tongue' biosensor for detecting proteins. <i>Talanta</i> , <b>2017</b> , 165, 182-187	6.2	12
48	Nano Endoscopy with Plasmon-Enhanced Fluorescence for Sensitive Sensing Inside Ultrasmall Volume Samples. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1045-1048	7.8	8
47	A rapid screening platform for catalyst discovery in azide-alkyne cycloaddition by ICP-MS/MS. <i>Talanta</i> , <b>2017</b> , 165, 39-43	6.2	6
46	Metal organic framework superlenses. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 10485-10489	7.1	
45	Identification and Quantitation of C?C Location Isomers of Unsaturated Fatty Acids by Epoxidation Reaction and Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 10270-10278	7.8	51
44	Photoluminescence Lifetime Imaging of Synthesized Proteins in Living Cells Using an Iridium-Alkyne Probe. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14928-14932	16.4	44
43	Photoluminescence Lifetime Imaging of Synthesized Proteins in Living Cells Using an Iridium-Alkyne Probe. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15124-15128	3.6	7
42	A new instrument of VUV laser desorption/ionization mass spectrometry imaging with micrometer spatial resolution and low level of molecular fragmentation. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 114102	1.7	13
41	A combinatorial immunoassay for multiple biomarkers via a stable isotope tagging strategy. <i>Chemical Communications</i> , <b>2017</b> , 53, 13075-13078	5.8	27
40	Chemical Visualization of Sweat Pores in Fingerprints Using GO-Enhanced TOF-SIMS. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 8372-8376	7.8	19
39	Imaging specific newly synthesized proteins within cells by fluorescence resonance energy transfer. <i>Chemical Science</i> , <b>2017</b> , 8, 748-754	9.4	2
38	Multiplex miRNA assay using lanthanide-tagged probes and the duplex-specific nuclease amplification strategy. <i>Chemical Communications</i> , <b>2016</b> , 52, 14310-14313	5.8	51
37	In Situ Ion-Transmission Mass Spectrometry for Paper-Based Analytical Devices. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 10805-10810	7.8	23
36	Multidimensional colorimetric sensor array for discrimination of proteins. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 86, 56-61	11.8	52
35	A nanoplasmonic probe as a triple channel colorimetric sensor array for protein discrimination. <i>Analyst</i> , <b>2016</b> , 141, 4014-7	5	29
34	Metal Stable Isotope Tagging: Renaissance of Radioimmunoassay for Multiplex and Absolute Quantification of Biomolecules. <i>Accounts of Chemical Research</i> , <b>2016</b> , 49, 775-83	24.3	98
33	Ratiometric fluorescence sensor arrays based on quantum dots for detection of proteins. <i>Analyst</i> , <b>2016</b> , 141, 2046-52	5	26
32	Single nanoporous gold nanowire as a tunable one-dimensional platform for plasmon-enhanced fluorescence. <i>Chemical Communications</i> , <b>2016</b> , 52, 1808-11	5.8	24

31	Interlayer spray ionization mass spectrometry for the simple direct analysis of low amounts of sample. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 5005-12	4.4	5
30	A ratiometric fluorescent probe for sensing hydrogen peroxide based on a hemicyanine-naphthol fluorophore. <i>Luminescence</i> , <b>2016</b> , 31, 660-4	2.5	18
29	A ratiometric strategy to detect hydrogen sulfide with a gold nanoclusters based fluorescent probe. <i>Talanta</i> , <b>2016</b> , 154, 190-6	6.2	32
28	Rapid screening of copper intermediates in Cu(i)-catalyzed azide-alkyne cycloaddition using a modified ICP-MS/MS platform. <i>Chemical Communications</i> , <b>2016</b> , 52, 10501-4	5.8	12
27	DNA methylation as a potential diagnosis indicator for rapid discrimination of rare cancer cells and normal cells. <i>Scientific Reports</i> , <b>2015</b> , 5, 11882	4.9	6
26	Development of dielectric-barrier-discharge ionization. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 2345-64	4.4	60
25	Colorimetric sensor array with unmodified noble metal nanoparticles for naked-eye detection of proteins and bacteria. <i>Analyst, The</i> , <b>2015</b> , 140, 7672-7	5	56
24	Pulsed Direct Current Electrospray: Enabling Systematic Analysis of Small Volume Sample by Boosting Sample Economy. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 11242-8	7.8	49
23	A cyanine-derived Turn-on fluorescent probe for imaging nitroreductase in hypoxic tumor cells. <i>Analytical Methods</i> , <b>2015</b> , 7, 10125-10128	3.2	21
22	ICP-MS/MS as a tool to study abiotic methylation of inorganic mercury reacting with VOCs. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2015</b> , 30, 1997-2002	3.7	7
21	Desalting by crystallization: detection of attomole biomolecules in picoliter buffers by mass spectrometry. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 9745-51	7.8	25
20	Cataluminescence-based sensors: principle, instrument and application. <i>Luminescence</i> , <b>2015</b> , 30, 919-39	2.5	18
19	Single cell analysis with probe ESI-mass spectrometry: detection of metabolites at cellular and subcellular levels. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 3809-16	7.8	163
18	Teaching analytical chemistry in China: past, present, and future perspectives. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 4005-8	4.4	6
17	Low temperature hydrogen plasma assisted chemical vapor generation for Atomic Fluorescence Spectrometry. <i>Talanta</i> , <b>2014</b> , 126, 1-7	6.2	29
16	Rapid removal of matrices from small-volume samples by step-voltage nanoelectrospray. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11025-8	16.4	45
15	Rapid Removal of Matrices from Small-Volume Samples by Step-Voltage Nanoelectrospray. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11231-11234	3.6	4
14	Development of a cataluminescence-based method for rapid screening of de-NO <sub>x</sub> catalysts. <i>Analytical Methods</i> , <b>2012</b> , 4, 2218	3.2	7

13	Shape controlled synthesis of superhydrophobic zinc coordination polymers particles and their calcination to superhydrophobic ZnO. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 8633		31
12	Low-temperature plasma ionization source for the online detection of indoor volatile organic compounds. <i>Talanta</i> , <b>2011</b> , 85, 2458-62	6.2	16
11	One-Step Homogeneous DNA Assay with Single-Nanoparticle Detection. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 3524-3527	3.6	9
10	Imaging Mass Spectrometry with a Low-Temperature Plasma Probe for the Analysis of Works of Art. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 4537-4539	3.6	17
9	CE immunoassay with enhanced chemiluminescence detection of erythropoietin using silica dioxide nanoparticles as pseudostationary phase. <i>Electrophoresis</i> , <b>2009</b> , 30, 3092-3098	3.6	16
8	Rapid screening of active ingredients in drugs by mass spectrometry with low-temperature plasma probe. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 395, 591-9	4.4	67
7	Direct detection of explosives on solid surfaces by low temperature plasma desorption mass spectrometry. <i>Analyst, The</i> , <b>2009</b> , 134, 176-81	5	171
6	Real-time monitoring of chemical reactions by mass spectrometry utilizing a low-temperature plasma probe. <i>Analyst, The</i> , <b>2009</b> , 134, 1863-7	5	62
5	l-Cysteine-Assisted Self-Assembly of Complex PbS Structures. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 3935-3940	3.9	33
4	Direct detection of explosives on solid surfaces by mass spectrometry with an ambient ion source based on dielectric barrier discharge. <i>Journal of Mass Spectrometry</i> , <b>2007</b> , 42, 1079-85	2.2	160
3	Development of a dielectric barrier discharge ion source for ambient mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2007</b> , 18, 1859-62	3.5	350
2	Catalytic chemiluminescence properties of boehmite nanococones. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 193105	3.4	12
1	Simultaneous determination of alpha-fetoprotein and free beta-human chorionic gonadotropin by element-tagged immunoassay with detection by inductively coupled plasma mass spectrometry. <i>Clinical Chemistry</i> , <b>2004</b> , 50, 1214-21	5.5	106