

Sichun Zhang

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.

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	Development of a dielectric barrier discharge ion source for ambient mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 1859-62	3.5	350
101	Direct detection of explosives on solid surfaces by low temperature plasma desorption mass spectrometry. <i>Analyst, The</i> , 2009 , 134, 176-81	5	171
100	Single cell analysis with probe ESI-mass spectrometry: detection of metabolites at cellular and subcellular levels. <i>Analytical Chemistry</i> , 2014 , 86, 3809-16	7.8	163
99	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> , 2007 , 42, 1079-85	2.2	160
98	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> , 2004 , 50, 1214-21	5.5	106
97	Metal Stable Isotope Tagging: Renaissance of Radioimmunoassay for Multiplex and Absolute Quantification of Biomolecules. <i>Accounts of Chemical Research</i> , 2016 , 49, 775-83	24.3	98
96	Assembling of Sulfur Quantum Dots in Fission of Sublimed Sulfur. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7878-7884	16.4	90
95	Rapid screening of active ingredients in drugs by mass spectrometry with low-temperature plasma probe. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 395, 591-9	4.4	67
94	Real-time monitoring of chemical reactions by mass spectrometry utilizing a low-temperature plasma probe. <i>Analyst, The</i> , 2009 , 134, 1863-7	5	62
93	Development of dielectric-barrier-discharge ionization. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 2345-64	4.4	60
92	Colorimetric sensor array with unmodified noble metal nanoparticles for naked-eye detection of proteins and bacteria. <i>Analyst, The</i> , 2015 , 140, 7672-7	5	56
91	Multidimensional colorimetric sensor array for discrimination of proteins. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 56-61	11.8	52
90	Multiplex miRNA assay using lanthanide-tagged probes and the duplex-specific nuclease amplification strategy. <i>Chemical Communications</i> , 2016 , 52, 14310-14313	5.8	51
89	Identification and Quantitation of C?C Location Isomers of Unsaturated Fatty Acids by Epoxidation Reaction and Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 10270-10278	7.8	51
88	Simultaneous Imaging of Three Tumor-Related mRNAs in Living Cells with a DNA Tetrahedron-Based Multicolor Nanoprobe. <i>ACS Sensors</i> , 2017 , 2, 735-739	9.2	49
87	Pulsed Direct Current Electrospray: Enabling Systematic Analysis of Small Volume Sample by Boosting Sample Economy. <i>Analytical Chemistry</i> , 2015 , 87, 11242-8	7.8	49
86	Rapid removal of matrices from small-volume samples by step-voltage nanoelectrospray. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11025-8	16.4	45

85	Photoluminescence Lifetime Imaging of Synthesized Proteins in Living Cells Using an Iridium-Alkyne Probe. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14928-14932	16.4	44
84	Combination of Droplet Extraction and Pico-ESI-MS Allows the Identification of Metabolites from Single Cancer Cells. <i>Analytical Chemistry</i> , 2018 , 90, 9897-9903	7.8	42
83	L-Cysteine-Assisted Self-Assembly of Complex PbS Structures. <i>Crystal Growth and Design</i> , 2008 , 8, 3935-3940	3.9	33
82	A Highly Sensitive Chemiluminescent Probe for Detecting Nitroreductase and Imaging in Living Animals. <i>Analytical Chemistry</i> , 2019 , 91, 1384-1390	7.8	33
81	Rapid Analysis of Unsaturated Fatty Acids on Paper-Based Analytical Devices via Online Epoxidation and Ambient Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 2070-2078	7.8	32
80	A ratiometric strategy to detect hydrogen sulfide with a gold nanoclusters based fluorescent probe. <i>Talanta</i> , 2016 , 154, 190-6	6.2	32
79	Label-free Mass Cytometry for Unveiling Cellular Metabolic Heterogeneity. <i>Analytical Chemistry</i> , 2019 , 91, 9777-9783	7.8	31
78	Shape controlled synthesis of superhydrophobic zinc coordination polymers particles and their calcination to superhydrophobic ZnO. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8633		31
77	A Novel Chemiluminescent Probe Based on 1,2-Dioxetane Scaffold for Imaging Cysteine in Living Mice. <i>ACS Sensors</i> , 2019 , 4, 87-92	9.2	30
76	A nanoplasmonic probe as a triple channel colorimetric sensor array for protein discrimination. <i>Analyst, The</i> , 2016 , 141, 4014-7	5	29
75	Low temperature hydrogen plasma assisted chemical vapor generation for Atomic Fluorescence Spectrometry. <i>Talanta</i> , 2014 , 126, 1-7	6.2	29
74	Chemical-Modified Nucleotide-Based Elemental Tags for High-Sensitive Immunoassay. <i>Analytical Chemistry</i> , 2019 , 91, 5980-5986	7.8	28
73	A combinatorial immunoassay for multiple biomarkers via a stable isotope tagging strategy. <i>Chemical Communications</i> , 2017 , 53, 13075-13078	5.8	27
72	Ratiometric fluorescence sensor arrays based on quantum dots for detection of proteins. <i>Analyst, The</i> , 2016 , 141, 2046-52	5	26
71	Desalting by crystallization: detection of attomole biomolecules in picoliter buffers by mass spectrometry. <i>Analytical Chemistry</i> , 2015 , 87, 9745-51	7.8	25
70	A Cell-Surface-Specific Ratiometric Fluorescent Probe for Extracellular pH Sensing with Solid-State Fluorophore. <i>ACS Sensors</i> , 2018 , 3, 2278-2285	9.2	25
69	Cell-Penetrating Peptide Spirolactam Derivative as a Reversible Fluorescent pH Probe for Live Cell Imaging. <i>Analytical Chemistry</i> , 2017 , 89, 1238-1243	7.8	24
68	Single nanoporous gold nanowire as a tunable one-dimensional platform for plasmon-enhanced fluorescence. <i>Chemical Communications</i> , 2016 , 52, 1808-11	5.8	24

67	Vacuum Ultraviolet Laser Desorption/Ionization Mass Spectrometry Imaging of Single Cells with Submicron Craters. <i>Analytical Chemistry</i> , 2018 , 90, 10009-10015	7.8	24
66	In Situ Ion-Transmission Mass Spectrometry for Paper-Based Analytical Devices. <i>Analytical Chemistry</i> , 2016 , 88, 10805-10810	7.8	23
65	Quantitation of Glucose-phosphate in Single Cells by Microwell-Based Nanoliter Droplet Microextraction and Mass Spectrometry. <i>Analytical Chemistry</i> , 2019 , 91, 5613-5620	7.8	21
64	A cyanine-derived Turn-on Fluorescent probe for imaging nitroreductase in hypoxic tumor cells. <i>Analytical Methods</i> , 2015 , 7, 10125-10128	3.2	21
63	Chemical Visualization of Sweat Pores in Fingerprints Using GO-Enhanced TOF-SIMS. <i>Analytical Chemistry</i> , 2017 , 89, 8372-8376	7.8	19
62	Cataluminescence-based sensors: principle, instrument and application. <i>Luminescence</i> , 2015 , 30, 919-39	2.5	18
61	A ratiometric fluorescent probe for sensing hydrogen peroxide based on a hemicyanine-naphthol fluorophore. <i>Luminescence</i> , 2016 , 31, 660-4	2.5	18
60	Homogeneous multiplexed digital detection of microRNA with ligation-rolling circle amplification. <i>Chemical Communications</i> , 2020 , 56, 5409-5412	5.8	17
59	High yield accelerated reactions in nonvolatile microthin films: chemical derivatization for analysis of single-cell intracellular fluid. <i>Chemical Science</i> , 2018 , 9, 7779-7786	9.4	17
58	Imaging Mass Spectrometry with a Low-Temperature Plasma Probe for the Analysis of Works of Art. <i>Angewandte Chemie</i> , 2010 , 122, 4537-4539	3.6	17
57	Pinpoint the Positions of Single Nucleotide Polymorphisms by a Nanocluster Dimer. <i>Analytical Chemistry</i> , 2017 , 89, 2622-2627	7.8	16
56	Low-temperature plasma ionization source for the online detection of indoor volatile organic compounds. <i>Talanta</i> , 2011 , 85, 2458-62	6.2	16
55	CE immunoassay with enhanced chemiluminescence detection of erythropoietin using silica dioxide nanoparticles as pseudostationary phase. <i>Electrophoresis</i> , 2009 , 30, 3092-3098	3.6	16
54	Detecting Low-Abundance Molecules at Single-Cell Level by Repeated Ion Accumulation in Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 2017 , 89, 2275-2281	7.8	15
53	An iridium complex-based probe for photoluminescence lifetime imaging of human carboxylesterase 2 in living cells. <i>Chemical Communications</i> , 2018 , 54, 9027-9030	5.8	15
52	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> , 2017 , 88, 114102	1.7	13
51	Graphene Oxide as a Novel Evenly Continuous Phase Matrix for TOF-SIMS. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 399-408	3.5	12
50	Plasma-based ambient mass spectrometry: a step forward to practical applications. <i>Analytical Methods</i> , 2017 , 9, 4908-4923	3.2	12

49	Continuously evolving 'chemical tongue' biosensor for detecting proteins. <i>Talanta</i> , 2017 , 165, 182-187	6.2	12
48	Catalytic chemiluminescence properties of boehmite nanocoons <i>Applied Physics Letters</i> , 2007 , 90, 193105	3.4	12
47	Rapid screening of copper intermediates in Cu(i)-catalyzed azide-alkyne cycloaddition using a modified ICP-MS/MS platform. <i>Chemical Communications</i> , 2016 , 52, 10501-4	5.8	12
46	Simultaneous competitive and sandwich formats multiplexed immunoassays based on ICP-MS detection. <i>Talanta</i> , 2018 , 185, 237-242	6.2	11
45	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> , 2019 , 56, 145-148	5.8	10
44	One-Step Homogeneous DNA Assay with Single-Nanoparticle Detection. <i>Angewandte Chemie</i> , 2011 , 123, 3524-3527	3.6	9
43	Nano Endoscopy with Plasmon-Enhanced Fluorescence for Sensitive Sensing Inside Ultrasmall Volume Samples. <i>Analytical Chemistry</i> , 2017 , 89, 1045-1048	7.8	8
42	A cell-penetrating ratiometric probe for simultaneous measurement of lysosomal and cytosolic pH change. <i>Talanta</i> , 2018 , 178, 355-361	6.2	8
41	ICP-MS/MS as a tool to study abiotic methylation of inorganic mercury reacting with VOCs. <i>Journal of Analytical Atomic Spectrometry</i> , 2015 , 30, 1997-2002	3.7	7
40	Gold nanoparticles-enhanced ion-transmission mass spectrometry for highly sensitive detection of chemical warfare agent simulants. <i>Talanta</i> , 2018 , 190, 403-409	6.2	7
39	Photoluminescence Lifetime Imaging of Synthesized Proteins in Living Cells Using an Iridium Alkyne Probe. <i>Angewandte Chemie</i> , 2017 , 129, 15124-15128	3.6	7
38	Development of a cataluminescence-based method for rapid screening of de-NOx catalysts. <i>Analytical Methods</i> , 2012 , 4, 2218	3.2	7
37	A rapid screening platform for catalyst discovery in azide-alkyne cycloaddition by ICP-MS/MS. <i>Talanta</i> , 2017 , 165, 39-43	6.2	6
36	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> , 2019 , 2, 2776-2784	5.6	6
35	DNA methylation as a potential diagnosis indicator for rapid discrimination of rare cancer cells and normal cells. <i>Scientific Reports</i> , 2015 , 5, 11882	4.9	6
34	Rapid screening of gaseous catalysts in methane activation using ICP-QQQ-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2018 , 33, 563-568	3.7	6
33	Teaching analytical chemistry in China: past, present, and future perspectives. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 4005-8	4.4	6
32	Dynamic Monitoring of Phase-Separated Biomolecular Condensates by Photoluminescence Lifetime Imaging. <i>Analytical Chemistry</i> , 2021 , 93, 2988-2995	7.8	6

31	Simultaneous detection of three gynecological tumor biomarkers in clinical serum samples using an ICP-MS-based magnetic immunoassay. <i>Analytical Methods</i> , 2017 , 9, 2546-2552	3.2	5
30	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> , 2020 , 34, e23287	3	5
29	Characterize Collective Lysosome Heterogeneous Dynamics in Live Cell with a Space- and Time-Resolved Method. <i>Analytical Chemistry</i> , 2018 , 90, 9138-9147	7.8	5
28	Rapid analysis of chemical warfare agents by metal needle-enhanced low-temperature plasma mass spectrometry. <i>Analytical Methods</i> , 2019 , 11, 3721-3726	3.2	5
27	Interlayer spray ionization mass spectrometry for the simple direct analysis of low amounts of sample. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 5005-12	4.4	5
26	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> , 2020 , 35, 804-809	3.7	4
25	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> , 2019 , 30, 2646-2654	3.5	4
24	Rapid Removal of Matrices from Small-Volume Samples by Step-Voltage Nanoelectrospray. <i>Angewandte Chemie</i> , 2013 , 125, 11231-11234	3.6	4
23	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> , 2020 , 58, 873-882	5.9	4
22	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> , 2020 , 25,	4.8	4
21	Identification and Spatial Mapping of Microplastic Standards in Paramecia by Secondary-Ion Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2021 , 93, 5521-5528	7.8	4
20	A fluorescent nanoprobe based on cell-penetrating peptides and quantum dots for ratiometric monitoring of pH fluctuation in lysosomes. <i>Talanta</i> , 2021 , 227, 122208	6.2	4
19	Spatiotemporal fluorescence imaging of newly synthesized proteins in normal and cancerous cells with anticarcinogen modulation. <i>Talanta</i> , 2017 , 162, 641-647	6.2	3
18	Ratiometric quantification of β -microglobulin antigen in human serum based on elemental labeling strategy. <i>Talanta</i> , 2018 , 189, 249-253	6.2	3
17	Site-Specific Scissors Based on Myeloperoxidase for Phosphorothioate DNA. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12361-12368	16.4	3
16	Imaging specific newly synthesized proteins within cells by fluorescence resonance energy transfer. <i>Chemical Science</i> , 2017 , 8, 748-754	9.4	2
15	In situ monitoring of catalytic reaction on single nanoporous gold nanowire with tuneable SERS and catalytic activity. <i>Talanta</i> , 2020 , 218, 121181	6.2	2
14	Rhodium (II)-Catalyzed Synthesis of Tetracyclic 3,4-Fused Indoles and Dihydroindoles. <i>Catalysts</i> , 2020 , 10, 920	4	2

13	Combination of Structured Illumination Microscopy with Hyperspectral Imaging for Cell Analysis. <i>Analytical Chemistry</i> , 2021 , 93, 10056-10064	7.8	2
12	Simultaneous multicolour imaging using quantum dot structured illumination microscopy. <i>Journal of Microscopy</i> , 2020 , 277, 32-41	1.9	1
11	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> , 2022 , 13, 1641-1647	9.4	1
10	Reveal heterogeneous motion states in single nanoparticle trajectory using its own history. <i>Science China Chemistry</i> , 2021 , 64, 302-312	7.9	1
9	A multiplex bacterial assay using an element-labeled strategy for 16S rRNA detection. <i>Analyst</i> , 2020 , 145, 6821-6825	5	1
8	Rapid quantitative analysis of hormones in serum by multilayer paper spray MS: Free MS from HPLC. <i>Talanta</i> , 2022 , 237, 122900	6.2	1
7	Tuning the p of Carboxyfluorescein with Arginine-Rich Cell-Penetrating Peptides for Intracellular pH Imaging. <i>Analytical Chemistry</i> , 2019 , 91, 9168-9173	7.8	0
6	Development of Pico-ESI-MS for Single-Cell Metabolomics Analysis. <i>Methods in Molecular Biology</i> , 2020 , 2064, 31-59	1.4	0
5	Discriminating Leukemia Cellular Heterogeneity and Screening Metabolite Biomarker Candidates using Label-Free Mass Cytometry. <i>Analytical Chemistry</i> , 2021 , 93, 10282-10291	7.8	0
4	Arsenic retention in erythrocytes and excessive erythrophagocytosis is related to low selenium status by impaired redox homeostasis.. <i>Redox Biology</i> , 2022 , 52, 102321	11.3	0
3	Metal organic framework superlenses. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10485-10489	7.1	
2	Rapid Disulfide Mapping in Peptides and Proteins by -Chloroperoxybenzoic Acid (CPBA) Oxidation and Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2021 , 93, 14618-14625	7.8	
1	Uncover Single Nanoparticle Dynamics on Live Cell Membrane with Data-Driven Historical Experience Analysis. <i>Analytical Chemistry</i> , 2021 , 93, 9559-9567	7.8	