

# Xin Hua

## List of Publications by Year in descending order

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55  
papers

1,964  
citations

279487

23  
h-index

253896

43  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2831  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing RNA dynamics in live cells with bright and stable fluorescent RNAs. <i>Nature Biotechnology</i> , 2019, 37, 1287-1293.	9.4	206
2	Efficient Passivation of Hybrid Perovskite Solar Cells Using Organic Dyes with $\text{-COOH}$ Functional Group. <i>Advanced Energy Materials</i> , 2018, 8, 1800715.	10.2	187
3	Selective collection and detection of MCF-7 breast cancer cells using aptamer-functionalized magnetic beads and quantum dots based nano-bio-probes. <i>Analytica Chimica Acta</i> , 2013, 788, 135-140.	2.6	127
4	Paper-Based Electrochemical Biosensors: From Test Strips to Paper-Based Microfluidics. <i>Electroanalysis</i> , 2014, 26, 1214-1223.	1.5	107
5	pH-Independent Production of Hydroxyl Radical from Atomic $\text{H}^*$ -Mediated Electrocatalytic $\text{H}_2\text{O}_2$ Reduction: A Green Fenton Process without Byproducts. <i>Environmental Science &amp; Technology</i> , 2020, 54, 14725-14731.	4.6	106
6	Polymer-Functionalized Silica Nanosphere Labels for Ultrasensitive Detection of Tumor Necrosis Factor- $\alpha$ . <i>Analytical Chemistry</i> , 2011, 83, 6800-6809.	3.2	100
7	<i>In Situ</i> Characterization of Dehydration during Ion Transport in Polymeric Nanochannels. <i>Journal of the American Chemical Society</i> , 2021, 143, 14242-14252.	6.6	89
8	Accurate Cancer Diagnosis and Stage Monitoring Enabled by Comprehensive Profiling of Different Types of Exosomal Biomarkers: Surface Proteins and miRNAs. <i>Small</i> , 2020, 16, e2004492.	5.2	67
9	In situ chemical probing of the electrode-electrolyte interface by ToF-SIMS. <i>Lab on A Chip</i> , 2014, 14, 855-859.	3.1	61
10	The emerging role of XBP1 in cancer. <i>Biomedicine and Pharmacotherapy</i> , 2020, 127, 110069.	2.5	56
11	Signal Amplification Cytosensor for Evaluation of Drug-Induced Cancer Cell Apoptosis. <i>Analytical Chemistry</i> , 2012, 84, 1894-1899.	3.2	50
12	Chemical imaging of molecular changes in a hydrated single cell by dynamic secondary ion mass spectrometry and super-resolution microscopy. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 635-644.	0.6	48
13	Improving the Molecular Ion Signal Intensity for In Situ Liquid SIMS Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 2006-2013.	1.2	46
14	In situ molecular imaging of a hydrated biofilm in a microfluidic reactor by ToF-SIMS. <i>Analyst, The</i> , 2014, 139, 1609-1613.	1.7	45
15	Capturing the transient species at the electrode-electrolyte interface by in situ dynamic molecular imaging. <i>Chemical Communications</i> , 2016, 52, 10952-10955.	2.2	43
16	Investigation of Silver Nanoparticle Induced Lipids Changes on a Single Cell Surface by Time-of-Flight Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 1072-1076.	3.2	41
17	Three-Dimensional Analysis of the Natural-Organic-Matter Distribution in the Cake Layer to Precisely Reveal Ultrafiltration Fouling Mechanisms. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5442-5452.	4.6	38
18	Recent advances in real-time and in situ analysis of an electrode-electrolyte interface by mass spectrometry. <i>Analyst, The</i> , 2017, 142, 691-699.	1.7	37

#	ARTICLE	IF	CITATIONS
19	Two-dimensional and three-dimensional dynamic imaging of live biofilms in a microchannel by time-of-flight secondary ion mass spectrometry. <i>Biomicrofluidics</i> , 2015, 9, 031101.	1.2	36
20	Signal amplification strategies for DNA and protein detection based on polymeric nanocomposites and polymerization: A review. <i>Analytica Chimica Acta</i> , 2015, 877, 19-32.	2.6	35
21	Polydimethylsiloxane Modified Silica Nanochannel Membrane for Hydrophobicity-Based Molecular Filtration and Detection. <i>Analytical Chemistry</i> , 2016, 88, 7821-7827.	3.2	35
22	Mussel-Inspired Polydopamine Functionalized Plasmonic Nanocomposites for Single-Particle Catalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 3016-3023.	4.0	34
23	Secondary ion mass spectrometry: The application in the analysis of atmospheric particulate matter. <i>Analytica Chimica Acta</i> , 2017, 989, 1-14.	2.6	34
24	Multi-walled carbon nanotubes induce transgenerational toxicity associated with activation of germline long non-coding RNA linc-7 in <i>C. elegans</i> . <i>Chemosphere</i> , 2022, 301, 134687.	4.2	27
25	Revisiting a classical redox process on a gold electrode by operando ToF-SIMS: where does the gold go?. <i>Chemical Science</i> , 2019, 10, 6215-6219.	3.7	22
26	Reaction, crystallization and element migration in coal slag melt during isothermal molten process. <i>Fuel</i> , 2017, 191, 221-229.	3.4	21
27	Graphene quantum dots enhanced ToF-SIMS for single-cell imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4025-4030.	1.9	21
28	<i>In situ</i> and real-time ToF-SIMS analysis of light-induced chemical changes in perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ . <i>Chemical Communications</i> , 2018, 54, 5434-5437.	2.2	19
29	Surface components of PM <sub>2.5</sub> during clear and hazy days in Shanghai by ToF-SIMS. <i>Atmospheric Environment</i> , 2017, 148, 175-181.	1.9	17
30	On-surface synthesis of planar dendrimers via divergent cross-coupling reaction. <i>Nature Communications</i> , 2019, 10, 2414.	5.8	17
31	Direct Molecular Evidence of Proton Transfer and Mass Dynamics at the Electrode-Electrolyte Interface. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 251-258.	2.1	16
32	Dehydrogenative homocoupling of tetrafluorobenzene on Pd(111) via para-selective C-H activation. <i>Chemical Communications</i> , 2017, 53, 6347-6350.	2.2	15
33	In-situ discrimination of the water cluster size distribution in aqueous solution by ToF-SIMS. <i>Science China Chemistry</i> , 2018, 61, 159-163.	4.2	15
34	<i>In Situ</i> Characterization of Hydrated Proteins in Water by SALVI and ToF-SIMS. <i>Journal of Visualized Experiments</i> , 2016, , 53708.	0.2	13
35	Bifunctional Peptide-Conjugated Gold Nanoparticles for Precise and Efficient Nucleus-Targeting Bioimaging in Live Cells. <i>Analytical Chemistry</i> , 2020, 92, 13595-13603.	3.2	13
36	Visible light controls cell adhesion on a photoswitchable biointerface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 41-48.	2.5	12

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37	&lt;p&gt;Mannose Impairs Lung Adenocarcinoma Growth and Enhances the Sensitivity of A549 Cells to Carboplatin&lt;/p&gt;. Cancer Management and Research, 2020, Volume 12, 11077-11083.	0.9	12
38	Cosensitized Porphyrin System for High-Performance Solar Cells with TOF-SIMS Analysis. ACS Applied Materials & Interfaces, 2017, 9, 16081-16090.	4.0	11
39	Ion-Specific Effects on Hydrogen Bond Network at a Submicropore Confined Liquid-Vacuum Interface: An <i>in Situ</i> Liquid ToF-SIMS Study. Journal of Physical Chemistry Letters, 2019, 10, 4935-4941.	2.1	11
40	Clinical features of pulmonary embolism in patients with lung cancer: A meta-analysis. PLoS ONE, 2019, 14, e0223230.	1.1	9
41	Plasmon-Induced Photoreduction System Allows Ultrasensitive Detection of Disease Biomarkers by Silver-Mediated Immunoassay. ACS Sensors, 2020, 5, 2184-2190.	4.0	9
42	Investigation of heart lipid changes in acute Î²-AR activation-induced sudden cardiac death by time-of-flight secondary ion mass spectrometry. Analyst, The, 2020, 145, 5889-5896.	1.7	7
43	Investigation of Lipid Metabolism in Dynamic Progression of Coronary Artery Atherosclerosis of Humans by Time-of-Flight Secondary Ion Mass Spectrometry. Analytical Chemistry, 2021, 93, 3839-3847.	3.2	7
44	Risk factors for brain metastases in patients with non-small cell lung cancer: a meta-analysis of 43 studies. Annals of Palliative Medicine, 2021, 10, 3657-3672.	0.5	6
45	Reversible redox inter-conversion of biologically active NAD <sup>+</sup> /NADH derivatives bound to a gold electrode: ToF-SIMS evidence. Chemical Communications, 2018, 54, 13945-13948.	2.2	5
46	Understanding How Ambiance Affects the Performance of Hole-Conductor-Free Perovskite Solar Cells from a Chemical Perspective. ACS Applied Energy Materials, 2019, 2, 2387-2391.	2.5	5
47	Pore Confined Liquidâ€“Vacuum Interface for Charge Transfer Study in an Electrochemical Process. Analytical Chemistry, 2019, 91, 3195-3198.	3.2	5
48	Three-Dimensional Microfluidic Chip for Efficient Capture of Secretory Autophagosomes and Sensitive Detection of Their Surface Proteins. Analytical Chemistry, 2022, 94, 8489-8496.	3.2	5
49	pH-Dependent Water Clusters in Photoacid Solution: Real-Time Observation by ToF-SIMS at a Submicropore Confined Liquid-Vacuum Interface. Frontiers in Chemistry, 2020, 8, 731.	1.8	4
50	Metal/Matrix Enhanced Time-of-flight Secondary Ion Mass Spectrometry for Single Cell Lipids Analysis. Chinese Journal of Analytical Chemistry, 2018, 46, 61-66.	0.9	3
51	Controllable functionalization of hydroxyl-terminated self-assembled monolayers via catalytic oxa-Michael reaction. Biointerphases, 2018, 13, 06E407.	0.6	3
52	Chelation as a strategy to reinforce cationic copper surface protection in acidic solutions. RSC Advances, 2016, 6, 68351-68356.	1.7	2
53	Investigation of the Ionization Mechanism of NAD <sup>+</sup> /NADH-Modified Gold Electrodes in ToF-SIMS Analysis. Journal of the American Society for Mass Spectrometry, 2018, 29, 1567-1570.	1.2	2
54	Proton-Coupled Electron Transfer of Coenzyme Q in Unbuffered Solution by Pore Confined In Situ Liquid ToF-SIMS. Journal of the Electrochemical Society, 2022, 169, 026525.	1.3	2

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55	Coupled Time-of-Flight Secondary Ion Mass Spectrometry-Electrochemical Analysis of Electrode-Electrolyte Interface at High Vacuum of $10^{-5}$ Pa. Chinese Journal of Analytical Chemistry, 2019, 47, 1887-1892.	0.9	0