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	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
2	Multi-walled carbon nanotubes induce transgenerational toxicity associated with activation of germline long non-coding RNA linc-7 in C. elegans. Chemosphere, 2022, 301, 134687.	4.2	27
3	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
4	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
5	Three-Dimensional Analysis of the Natural-Organic-Matter Distribution in the Cake Layer to Precisely Reveal Ultrafiltration Fouling Mechanisms. Environmental Science & Technology, 2021, 55, 5442-5452.	4.6	38
6	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
7	In Situ Characterization of Dehydration during Ion Transport in Polymeric Nanochannels. Journal of the American Chemical Society, 2021, 143, 14242-14252.	6.6	89
8	Mannose Impairs Lung Adenocarcinoma Growth and Enhances the Sensitivity of A549 Cells to Carboplatin . Cancer Management and Research, 2020, Volume 12, 11077-11083.	0.9	12
9	Accurate Cancer Diagnosis and Stage Monitoring Enabled by Comprehensive Profiling of Different Types of Exosomal Biomarkers: Surface Proteins and miRNAs. Small, 2020, 16, e2004492.	5.2	67
10	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
11	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
12	Bifunctional Peptide-Conjugated Gold Nanoparticles for Precise and Efficient Nucleus-Targeting Bioimaging in Live Cells. Analytical Chemistry, 2020, 92, 13595-13603.	3.2	13
13	pH-Independent Production of Hydroxyl Radical from Atomic H*-Mediated Electrocatalytic H₂O₂ Reduction: A Green Fenton Process without Byproducts. Environmental Science & Technology, 2020, 54, 14725-14731.	4.6	106
14	Plasmon-Induced Photoreduction System Allows Ultrasensitive Detection of Disease Biomarkers by Silver-Mediated Immunoassay. ACS Sensors, 2020, 5, 2184-2190.	4.0	9
15	The emerging role of XBP1 in cancer. Biomedicine and Pharmacotherapy, 2020, 127, 110069.	2.5	56
16	Ion-Specific Effects on Hydrogen Bond Network at a Submicropore Confined Liquid-Vacuum Interface: An in Situ Liquid ToF-SIMS Study. Journal of Physical Chemistry Letters, 2019, 10, 4935-4941.	2.1	11
17	Clinical features of pulmonary embolism in patients with lung cancer: A meta-analysis. PLoS ONE, 2019, 14, e0223230.	1.1	9
18	On-surface synthesis of planar dendrimers via divergent cross-coupling reaction. Nature Communications, 2019, 10, 2414.	5.8	17

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19	Revisiting a classical redox process on a gold electrode by operando ToF-SIMS: where does the gold go?. Chemical Science, 2019, 10, 6215-6219.	3.7	22
20	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
21	Graphene quantum dots enhanced ToF-SIMS for single-cell imaging. Analytical and Bioanalytical Chemistry, 2019, 411, 4025-4030.	1.9	21
22	Visualizing RNA dynamics in live cells with bright and stable fluorescent RNAs. Nature Biotechnology, 2019, 37, 1287-1293.	9.4	206
23	Coupled Time-of-Flight Secondary Ion Mass Spectrometry-Electrochemical Analysis of Electrode-Electrolyte Interface at High Vacuum of 10â^'5 Pa. Chinese Journal of Analytical Chemistry, 2019, 47, 1887-1892.	0.9	0
24	Direct Molecular Evidence of Proton Transfer and Mass Dynamics at the Electrodeâ€“Electrolyte Interface. Journal of Physical Chemistry Letters, 2019, 10, 251-258.	2.1	16
25	Pore Confined Liquidâ€“Vacuum Interface for Charge Transfer Study in an Electrochemical Process. Analytical Chemistry, 2019, 91, 3195-3198.	3.2	5
26	Efficient Passivation of Hybrid Perovskite Solar Cells Using Organic Dyes with ï£¿COOH Functional Group. Advanced Energy Materials, 2018, 8, 1800715.	10.2	187
27	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
28	Investigation of Silver Nanoparticle Induced Lipids Changes on a Single Cell Surface by Time-of-Flight Secondary Ion Mass Spectrometry. Analytical Chemistry, 2018, 90, 1072-1076.	3.2	41
29	In-situ discrimination of the water cluster size distribution in aqueous solution by ToF-SIMS. Science China Chemistry, 2018, 61, 159-163.	4.2	15
30	Visible light controls cell adhesion on a photoswitchable biointerface. Colloids and Surfaces B: Biointerfaces, 2018, 169, 41-48.	2.5	12
31	In situ and real-time ToF-SIMS analysis of light-induced chemical changes in perovskite CH₃NH₃PbI₃. Chemical Communications, 2018, 54, 5434-5437.	2.2	19
32	Reversible redox inter-conversion of biologically active NAD⁺/NADH derivatives bound to a gold electrode: ToF-SIMS evidence. Chemical Communications, 2018, 54, 13945-13948.	2.2	5
33	Controllable functionalization of hydroxyl-terminated self-assembled monolayers via catalytic oxa-Michael reaction. Biointerphases, 2018, 13, 06E407.	0.6	3
34	Investigation of the Ionization Mechanism of NAD⁺/NADH-Modified Gold Electrodes in ToF-SIMS Analysis. Journal of the American Society for Mass Spectrometry, 2018, 29, 1567-1570.	1.2	2
35	Surface components of PM2.5 during clear and hazy days in Shanghai by ToF-SIMS. Atmospheric Environment, 2017, 148, 175-181.	1.9	17
36	Recent advances in real-time and in situ analysis of an electrodeâ€“electrolyte interface by mass spectrometry. Analyst, The, 2017, 142, 691-699.	1.7	37

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37	Cosensitized Porphyrin System for High-Performance Solar Cells with TOF-SIMS Analysis. ACS Applied Materials & Interfaces, 2017, 9, 16081-16090.	4.0	11
38	Reaction, crystallization and element migration in coal slag melt during isothermal molten process. Fuel, 2017, 191, 221-229.	3.4	21
39	Dehydrogenative homocoupling of tetrafluorobenzene on Pd(111) via para-selective Câ€“H activation. Chemical Communications, 2017, 53, 6347-6350.	2.2	15
40	Mussel-Inspired Polydopamine Functionalized Plasmonic Nanocomposites for Single-Particle Catalysis. ACS Applied Materials & Interfaces, 2017, 9, 3016-3023.	4.0	34
41	Secondary ion mass spectrometry: The application in the analysis of atmospheric particulate matter. Analytica Chimica Acta, 2017, 989, 1-14.	2.6	34
42	Improving the Molecular Ion Signal Intensity for In Situ Liquid SIMS Analysis. Journal of the American Society for Mass Spectrometry, 2016, 27, 2006-2013.	1.2	46
43	Chelation as a strategy to reinforce cationic copper surface protection in acidic solutions. RSC Advances, 2016, 6, 68351-68356.	1.7	2
44	Capturing the transient species at the electrodeâ€“electrolyte interface by in situ dynamic molecular imaging. Chemical Communications, 2016, 52, 10952-10955.	2.2	43
45	Polydimethysiloxane Modified Silica Nanochannel Membrane for Hydrophobicity-Based Molecular Filtration and Detection. Analytical Chemistry, 2016, 88, 7821-7827.	3.2	35
46	In Situ Characterization of Hydrated Proteins in Water by SALVI and ToF-SIMS. Journal of Visualized Experiments, 2016, , 53708.	0.2	13
47	Chemical imaging of molecular changes in a hydrated single cell by dynamic secondary ion mass spectrometry and super-resolution microscopy. Integrative Biology (United Kingdom), 2016, 8, 635-644.	0.6	48
48	Two-dimensional and three-dimensional dynamic imaging of live biofilms in a microchannel by time-of-flight secondary ion mass spectrometry. Biomicrofluidics, 2015, 9, 031101.	1.2	36
49	Signal amplification strategies for DNA and protein detection based on polymeric nanocomposites and polymerization: A review. Analytica Chimica Acta, 2015, 877, 19-32.	2.6	35
50	Paperâ€Based Electrochemical Biosensors: From Test Strips to Paperâ€Based Microfluidics. Electroanalysis, 2014, 26, 1214-1223.	1.5	107
51	In situ chemical probing of the electrodeâ€“electrolyte interface by ToF-SIMS. Lab on A Chip, 2014, 14, 855-859.	3.1	61
52	In situ molecular imaging of a hydrated biofilm in a microfluidic reactor by ToF-SIMS. Analyst, The, 2014, 139, 1609-1613.	1.7	45
53	Selective collection and detection of MCF-7 breast cancer cells using aptamer-functionalized magnetic beads and quantum dots based nano-bio-probes. Analytica Chimica Acta, 2013, 788, 135-140.	2.6	127
54	Signal Amplification Cytosensor for Evaluation of Drug-Induced Cancer Cell Apoptosis. Analytical Chemistry, 2012, 84, 1894-1899.	3.2	50

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55	Polymer-Functionalized Silica Nanosphere Labels for Ultrasensitive Detection of Tumor Necrosis Factor-alpha. Analytical Chemistry, 2011, 83, 6800-6809.	3.2	100