

Liang Qiao

List of Publications by Citations

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117
papers

2,153
citations

27
h-index

39
g-index

128
ext. papers

2,724
ext. citations

7
avg, IF

5.27
L-index

#	Paper	IF	Citations
117	Specific on-plate enrichment of phosphorylated peptides for direct MALDI-TOF MS analysis. <i>Journal of Proteome Research</i> , 2007 , 6, 4763-9	5.6	86
116	A nanoporous reactor for efficient proteolysis. <i>Chemistry - A European Journal</i> , 2008 , 14, 151-7	4.8	72
115	Tandem 18O stable isotope labeling for quantification of N-glycoproteome. <i>Journal of Proteome Research</i> , 2010 , 9, 227-36	5.6	71
114	Detection of Pathogenic Microorganisms by Microfluidics Based Analytical Methods. <i>Analytical Chemistry</i> , 2018 , 90, 5512-5520	7.8	65
113	In silico spectral libraries by deep learning facilitate data-independent acquisition proteomics. <i>Nature Communications</i> , 2020 , 11, 146	17.4	59
112	Electrostatic-spray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 7422-30	7.8	58
111	TiO ₂ -modified macroporous silica foams for advanced enrichment of multi-phosphorylated peptides. <i>Chemistry - A European Journal</i> , 2009 , 15, 2504-8	4.8	57
110	On-chip spray mass spectrometry for droplet-based microfluidics. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4408-12	16.4	55
109	Copper-catalyzed tyrosine nitration. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19823-31	16.4	54
108	Macroporous materials as novel catalysts for efficient and controllable proteolysis. <i>Analytical Chemistry</i> , 2009 , 81, 5749-56	7.8	53
107	Proteolysis in microfluidic droplets: an approach to interface protein separation and peptide mass spectrometry. <i>Lab on A Chip</i> , 2012 , 12, 2625-9	7.2	49
106	Electrochemical push-pull scanner with mass spectrometry detection. <i>Analytical Chemistry</i> , 2012 , 84, 6630-7	7.8	48
105	Kinetics of proteolytic reactions in nanoporous materials. <i>Journal of Proteome Research</i> , 2009 , 8, 4685-92	5.6	46
104	TiO ₂ printed aluminum foil: single-use film for a laser desorption/ionization target plate. <i>Analytical Chemistry</i> , 2009 , 81, 1177-83	7.8	44
103	Sensitive and fast identification of bacteria in blood samples by immunoaffinity mass spectrometry for quick BSI diagnosis. <i>Chemical Science</i> , 2016 , 7, 2987-2995	9.4	41
102	Copper(I) and copper(II) binding to Amyloid 16 (A β 16) studied by electrospray ionization mass spectrometry. <i>Metallomics</i> , 2010 , 2, 474-9	4.5	38
101	Metaproteomics characterizes human gut microbiome function in colorectal cancer. <i>Npj Biofilms and Microbiomes</i> , 2020 , 6, 14	8.2	36

100	Electrochemical aspects of electrospray and laser desorption/ionization for mass spectrometry. <i>Annual Review of Analytical Chemistry</i> , 2010 , 3, 231-54	12.5	36
99	Microfluidic Raman biochip detection of exosomes: a promising tool for prostate cancer diagnosis. <i>Lab on A Chip</i> , 2020 , 20, 4632-4637	7.2	35
98	MALDI in-source photooxidation reactions for online peptide tagging. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2646-8	16.4	35
97	Direct MALDI-TOF MS Identification of Bacterial Mixtures. <i>Analytical Chemistry</i> , 2018 , 90, 10400-10408	7.8	33
96	Detection of antimicrobial resistance-associated proteins by titanium dioxide-facilitated intact bacteria mass spectrometry. <i>Chemical Science</i> , 2018 , 9, 2212-2221	9.4	31
95	Proteomic and Metabolic Elucidation of Solar-Powered Biomanufacturing by Bio-Abiotic Hybrid System. <i>CheM</i> , 2020 , 6, 234-249	16.2	30
94	Improved conversion rates in drug screening applications using miniaturized electrochemical cells with frit channels. <i>Analytical Chemistry</i> , 2012 , 84, 9176-83	7.8	29
93	Ultrasensitive Detection of Low-Abundance Protein Biomarkers by Mass Spectrometry Signal Amplification Assay. <i>Analytical Chemistry</i> , 2016 , 88, 6767-72	7.8	28
92	Rapid Detection of COVID-19 Using MALDI-TOF-Based Serum Peptidome Profiling. <i>Analytical Chemistry</i> , 2021 , 93, 4782-4787	7.8	28
91	Mass Barcode Signal Amplification for Multiplex Allergy Diagnosis by MALDI-MS. <i>Analytical Chemistry</i> , 2016 , 88, 6184-9	7.8	27
90	Amorphous phosphatized ruthenium-iron bimetallic nanoclusters with Pt-like activity for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021 , 283, 119583	21.8	27
89	TiO-Assisted Laser Desorption/Ionization Mass Spectrometry for Rapid Profiling of Candidate Metabolite Biomarkers from Antimicrobial-Resistant Bacteria. <i>Analytical Chemistry</i> , 2018 , 90, 3863-3870	7.8	26
88	Controlling the specific enrichment of multi-phosphorylated peptides on oxide materials: aluminium foil as a target plate for laser desorption ionization mass spectrometry. <i>Chemical Science</i> , 2010 , 1, 374	9.4	24
87	Rapid Enrichment and Sensitive Detection of Multiple Metal Ions Enabled by Macroporous Graphene Foam. <i>Analytical Chemistry</i> , 2017 , 89, 11758-11764	7.8	23
86	Multiple scanning electrochemical microscopy mapping of tyrosinase in micro-contact printed fruit samples on polyvinylidene fluoride membrane. <i>Electrochimica Acta</i> , 2015 , 179, 57-64	6.7	23
85	Highly-ordered silicon nanowire arrays for photoelectrochemical hydrogen evolution: an investigation on the effect of wire diameter, length and inter-wire spacing. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 978-982	5.8	22
84	Nanomaterial-assisted laser desorption ionization for mass spectrometry-based biomedical analysis. <i>Nanomedicine</i> , 2010 , 5, 1641-52	5.6	22
83	Identification of pathogenic bacteria in human blood using IgG-modified FeO magnetic beads as a sorbent and MALDI-TOF MS for profiling. <i>Mikrochimica Acta</i> , 2018 , 185, 542	5.8	21

82	Fingerprinting the tertiary structure of electroadsorbed lysozyme at soft interfaces by electrostatic spray ionization mass spectrometry. <i>Chemical Communications</i> , 2014 , 50, 11829-32	5.8	20
81	In-source photocatalytic reduction of disulfide bonds during laser desorption ionization. <i>Chemical Communications</i> , 2008 , 6357-9	5.8	19
80	Conformal and continuous deposition of bifunctional cobalt phosphide layers on p-silicon nanowire arrays for improved solar hydrogen evolution. <i>Nano Research</i> , 2018 , 11, 4823-4835	10	18
79	Ultrasensitive profiling of multiple biomarkers from single cells by signal amplification mass spectrometry. <i>Chemical Communications</i> , 2018 , 54, 9659-9662	5.8	18
78	Inverted Pyramid Textured p-Silicon Covered with Co ₂ P as an Efficient and Stable Solar Hydrogen Evolution Photocathode. <i>ACS Energy Letters</i> , 2019 , 4, 1755-1762	20.1	18
77	Surprising acidity of hydrated lithium cations in organic solvents. <i>Chemical Communications</i> , 2014 , 50, 5554-7	5.8	18
76	Electrochemically controlled proton-transfer-catalyzed reactions at liquid-liquid interfaces: nucleophilic substitution on ferrocene methanol. <i>ChemPhysChem</i> , 2013 , 14, 311-4	3.2	18
75	Advances in signal amplification strategies for electrochemical biosensing. <i>Current Opinion in Electrochemistry</i> , 2018 , 12, 5-12	7.2	18
74	Microfluidic Air Sampler for Highly Efficient Bacterial Aerosol Collection and Identification. <i>Analytical Chemistry</i> , 2016 , 88, 11504-11512	7.8	17
73	Self-Assembled Au Nanoparticle Arrays for Precise Metabolic Assay of Cerebrospinal Fluid. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4886-4893	9.5	17
72	Liver-targeted Nano-MitoPBN normalizes glucose metabolism by improving mitochondrial redox balance. <i>Biomaterials</i> , 2019 , 222, 119457	15.6	16
71	Polydopamine Grafted Porous Graphene as Biocompatible Nanoreactor for Efficient Identification of Membrane Proteins. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6363-70	9.5	16
70	Electrostatic spray ionization mass spectrometry imaging. <i>Analytical Chemistry</i> , 2014 , 86, 2033-41	7.8	16
69	Coupling isoelectric focusing gel electrophoresis to mass spectrometry by electrostatic spray ionization. <i>Analytical Chemistry</i> , 2013 , 85, 4745-52	7.8	16
68	Microchip emitter for solid-phase extraction-gradient elution-mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 6254-63	7.8	16
67	Nanoporous silica coupled MALDI-TOF MS detection of Bence-Jones proteins in human urine for diagnosis of multiple myeloma. <i>Talanta</i> , 2019 , 200, 288-292	6.2	15
66	Characterization of efficient proteolysis by trypsin loaded macroporous silica. <i>Molecular BioSystems</i> , 2011 , 7, 2890-8		15
65	Photocatalytic redox reactions for in-source peptide fragmentation. <i>Chemistry - A European Journal</i> , 2009 , 15, 6711-7	4.8	15

64	Mass Spectrometry Imaging of Mass Tag Immunoassay Enables the Quantitative Profiling of Biomarkers from Dozens of Exosomes. <i>Analytical Chemistry</i> , 2021 , 93, 709-714	7.8	15
63	On-Chip Mesoporous Functionalized Magnetic Microspheres for Protein Sequencing by Extended Bottom-up Mass Spectrometry. <i>Analytical Chemistry</i> , 2016 , 88, 1775-84	7.8	14
62	Mass spectrometry-based metabolomics approach to reveal differential compounds in pufferfish soups: Flavor, nutrition, and safety. <i>Food Chemistry</i> , 2019 , 301, 125261	8.5	14
61	Highly sensitive detection of five typical fluoroquinolones in low-fat milk by field-enhanced sample injection-based CE in bubble cell capillary. <i>Electrophoresis</i> , 2014 , 35, 3355-62	3.6	14
60	Bacterial Whole Cell Typing by Mass Spectra Pattern Matching with Bootstrapping Assessment. <i>Analytical Chemistry</i> , 2017 , 89, 12556-12561	7.8	14
59	Highly Efficient Desalting by Silica Isoporous Membrane-Based Microfluidic Chip for Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 14395-14401	7.8	14
58	Highly efficient exosome purification from human plasma by tangential flow filtration based microfluidic chip. <i>Sensors and Actuators B: Chemical</i> , 2021 , 333, 129563	8.5	13
57	Differentiation and authentication of fishes at the species level through analysis of fish skin by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2019 , 33, 1336-1343	2.2	12
56	Multifunctional nanoreactor for comprehensive characterization of membrane proteins based on surface functionalized mesoporous foams. <i>Analytical Chemistry</i> , 2015 , 87, 9360-7	7.8	12
55	Toward Spectral Library-Free Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry Bacterial Identification. <i>Journal of Proteome Research</i> , 2018 , 17, 2124-2130	5.6	12
54	Plasmonic Colloidosome-Based Multifunctional Platform for Bacterial Identification and Antimicrobial Resistance Detection. <i>Analytical Chemistry</i> , 2019 , 91, 14220-14225	7.8	11
53	Efficient drug metabolism strategy based on microsome-mesoporous organosilica nanoreactors. <i>Analytical Chemistry</i> , 2014 , 86, 10870-6	7.8	11
52	On-Chip Spyhole Mass Spectrometry for Droplet-Based Microfluidics. <i>Angewandte Chemie</i> , 2014 , 126, 4497-4501	3.6	11
51	Ga ₂ O ₃ photocatalyzed on-line tagging of cysteine to facilitate peptide mass fingerprinting. <i>Proteomics</i> , 2011 , 11, 3501-9	4.8	11
50	Electrochemical reactions and ionization processes. <i>European Journal of Mass Spectrometry</i> , 2010 , 16, 341-9	1.1	11
49	Plasmonic Colloidosome-Coupled MALDI-TOF MS for Bacterial Heteroresistance Study at Single-Cell Level. <i>Analytical Chemistry</i> , 2020 , 92, 8051-8057	7.8	10
48	On-Chip Spyhole Nanoelectrospray Ionization Mass Spectrometry for Sensitive Biomarker Detection in Small Volumes. <i>Journal of the American Society for Mass Spectrometry</i> , 2018 , 29, 1538-1545	3.5	10
47	MALDI-TOF Characterization of Protein Expression Mutation During Morphological Changes of Bacteria Under the Impact of Antibiotics. <i>Analytical Chemistry</i> , 2019 , 91, 2352-2359	7.8	10

46	Electrostatic-spray ionization mass spectrometry sniffing for perfume fingerprinting. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 2310-6	2.2	10
45	The Competitive Dynamic Binding of Some Blood Proteins Adsorbed on Gold Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1800257	3.1	10
44	Fragment Mass Spectrum Prediction Facilitates Site Localization of Phosphorylation. <i>Journal of Proteome Research</i> , 2021 , 20, 634-644	5.6	10
43	Amino-functionalized macroporous silica for efficient tryptic digestion in acidic solutions. <i>Proteomics</i> , 2013 , 13, 3117-23	4.8	9
42	Electrostatic Spray Ionization-Mass Spectrometry for Direct and Fast Wine Characterization. <i>ACS Omega</i> , 2018 , 3, 17881-17887	3.9	9
41	Photochemical Bionanoreactor for Efficient Visible-Light-Driven in Vitro Drug Metabolism. <i>Analytical Chemistry</i> , 2017 , 89, 7365-7372	7.8	8
40	Ambient in situ analysis and imaging of both hydrophilic and hydrophobic thin layer chromatography plates by electrostatic spray ionization mass spectrometry. <i>RSC Advances</i> , 2015 , 5, 75395-75402	3.7	8
39	In-tip nanoreactors for cancer cells proteome profiling. <i>Analytica Chimica Acta</i> , 2017 , 949, 43-52	6.6	7
38	Plasmonic Colloidosome-Based Single Cell Detector: A Strategy for Individual Cell Secretion Sensing. <i>Analytical Chemistry</i> , 2019 , 91, 2260-2265	7.8	7
37	SERS and MALDI-TOF MS based plasma exosome profiling for rapid detection of osteosarcoma. <i>Analyst, The</i> , 2021 , 146, 6496-6505	5	7
36	Electrostatic Spray Ionization from 384-Well Microtiter Plates for Mass Spectrometry Analysis-Based Enzyme Assay and Drug Metabolism Screening. <i>Analytical Chemistry</i> , 2017 , 89, 5983-5990	7.8	6
35	Electrochemistry-mass spectrometry for mechanism study of oxygen reduction at water/oil interface. <i>Scientific Reports</i> , 2017 , 7, 46669	4.9	6
34	Sensitive and fast beverage/fruit antioxidant evaluation by TiO ₂ -Au/graphene nanocomposites coupled with MALDI-MS. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30 Suppl 1, 128-32	2.2	6
33	Self-assembled plasmonic nanoarrays for enhanced bacterial identification and discrimination. <i>Biosensors and Bioelectronics</i> , 2022 , 197, 113778	11.8	6
32	Sensitive electrochemical aptasensor for detecting EpCAM with silica nanoparticles and quantum dots for signal amplification. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 856, 113655	4.1	6
31	Aluminium foil as a single-use substrate for MALDI-MS fingerprinting of different melanoma cell lines. <i>Analyst, The</i> , 2016 , 141, 3403-10	5	6
30	Sensitive detection of thyroid stimulating hormone by inkjet printed microchip with a double signal amplification strategy. <i>Chinese Chemical Letters</i> , 2018 , 29, 1879-1882	8.1	5
29	Standard addition strip for quantitative electrostatic spray ionization mass spectrometry analysis: determination of caffeine in drinks. <i>Talanta</i> , 2014 , 130, 377-81	6.2	5

28	Proteins in Mesoporous Silicates. <i>ACS Symposium Series</i> , 2008 , 49-60	0.4	5
27	GproDIA enables data-independent acquisition glycoproteomics with comprehensive statistical control. <i>Nature Communications</i> , 2021 , 12, 6073	17.4	5
26	Compartmentally scavenging hepatic oxidants through AMPK/SIRT3-PGC1 α axis improves mitochondrial biogenesis and glucose catabolism. <i>Free Radical Biology and Medicine</i> , 2021 , 168, 117-128	7.8	5
25	Compatible buffer for capillary electrophoresis and matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytical Methods</i> , 2013 , 5, 4258	3.2	4
24	Mesoporous Silica as Sorbents and Enzymatic Nanoreactors for Microbial Membrane Proteomics. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11571-11578	9.5	4
23	Microfluidic filter device coupled mass spectrometry for rapid bacterial antimicrobial resistance analysis. <i>Analyst, The</i> , 2021 , 146, 515-520	5	4
22	Highly efficient enrichment and identification of pathogens using a herringbone microfluidic chip and by MALDI-TOF mass spectrometry. <i>Analyst, The</i> , 2021 , 146, 4146-4153	5	4
21	Open channel-based microchip electrophoresis interfaced with mass spectrometry via electrostatic spray ionization. <i>Chinese Chemical Letters</i> , 2016 , 27, 85-87	8.1	3
20	MALDI In-Source Photooxidation Reactions for Online Peptide Tagging. <i>Angewandte Chemie</i> , 2008 , 120, 2686-2688	3.6	3
19	Rapid identification of bacteria directly from blood cultures by Co-magnetic bead enrichment and MALDI-TOF MS profiling. <i>Talanta</i> , 2021 , 233, 122472	6.2	3
18	Evaluation of prostate cancer based on MALDI-TOF MS fingerprinting of nanoparticle-treated serum proteins/peptides. <i>Talanta</i> , 2020 , 220, 121331	6.2	2
17	Transpeptidation-mediated single-particle imaging assay for sensitive and specific detection of sortase with dark-field optical microscopy. <i>Biosensors and Bioelectronics</i> , 2021 , 178, 113003	11.8	2
16	Amphiphilic mesoporous graphene mediated efficient photoionic cell. <i>Carbon</i> , 2018 , 128, 134-137	10.4	2
15	Rapid and specific detection nanoplatfrom of serum exosomes for prostate cancer diagnosis. <i>Mikrochimica Acta</i> , 2021 , 188, 283	5.8	2
14	Deep learning approaches for data-independent acquisition proteomics.. <i>Expert Review of Proteomics</i> , 2021 ,	4.2	2
13	Water-in-oil microcompartments for the study of biomimetic drug metabolism. <i>Journal of Colloid and Interface Science</i> , 2020 , 569, 378-385	9.3	1
12	Protein/peptide purification by three-well OFFGEL electrophoresis with immobilized ultra narrow pH gradient gels. <i>Analytical Methods</i> , 2014 , 6, 3995-4002	3.2	1
11	Analytical Chemistry at the Laboratoire d'Electrochimie Physique et Analytique. <i>Chimia</i> , 2015 , 69, 290-3	1.3	1

10	Antioxidant promotion of tyrosine nitration in the presence of copper(II). <i>Metallomics</i> , 2013 , 5, 686-92	4.5	1
9	MALDI-TOF MS and Magnetic Beads for Rapid Seafood Allergen Tests. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 12909-12918	5.7	1
8	Direct MALDI-TOF profiling of gingival crevicular fluid sediments for periodontitis diagnosis. <i>Talanta</i> , 2021 , 225, 121956	6.2	1
7	Matrix-assisted laser desorption ionization mass spectrometry profiling of plasma exosomes evaluates osteosarcoma metastasis. <i>IScience</i> , 2021 , 24, 102906	6.1	1
6	Assessment of bacterial viability by laser desorption ionization mass spectrometry for antimicrobial susceptibility testing. <i>Talanta</i> , 2021 , 233, 122535	6.2	1
5	Isothermal gene amplification coupled MALDI-TOF MS for SARS-CoV-2 detection.. <i>Talanta</i> , 2022 , 242, 123297	6.2	0
4	Multi-Omic Profiling of Multi-Biosamples Reveals the Role of Amino Acid and Nucleotide Metabolism in Endometrial Cancer.. <i>Frontiers in Oncology</i> , 2022 , 12, 861142	5.3	0
3	Porous silica enhanced proteolysis during Off-Gel separation for efficient protein identification. <i>Talanta</i> , 2015 , 144, 1182-8	6.2	
2	LEPA: from proteomics to energy conversion. <i>Chimia</i> , 2011 , 65, 672-6	1.3	
1	Mesoporous Silica for Triphase Nucleophilic Substitution Reactions. <i>Chimia</i> , 2018 , 72, 514-517	1.3	