

# Yu Xia

## List of Publications by Year in Descending Order

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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.

108  
papers

3,194  
citations

31  
h-index

53  
g-index

116  
ext. papers

3,773  
ext. citations

7  
avg, IF

5.73  
L-index

#	Paper	IF	Citations
108	Bio-inspired lanthanum-ortho-quinone catalysis for aerobic alcohol oxidation: semi-quinone anionic radical as redox ligand.. <i>Nature Communications</i> , <b>2022</b> , 13, 428	17.4	2
107	Site-Specific Photochemical Reaction for Improved C=C Location Analysis of Unsaturated Lipids by Ultraviolet Photodissociation.. <i>Research</i> , <b>2022</b> , 2022, 9783602	7.8	0
106	Structural basis of leukotriene B4 receptor 1 activation.. <i>Nature Communications</i> , <b>2022</b> , 13, 1156	17.4	1
105	Deep-lipidotyping by mass spectrometry: recent technical advances and applications.. <i>Journal of Lipid Research</i> , <b>2022</b> , 100219	6.3	7
104	Photochemical Disulfide-Ene Modification Enhances Protein Sequencing and Disulfide Mapping by Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 15231-15235	7.8	0
103	Deep Structural Annotation of Glycerolipids by the Charge-Tagging Paterno-Büchi Reaction and Supercritical Fluid Chromatography-Ion Mobility Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 8345-8353	7.8	9
102	Single-cell lipidomics with high structural specificity by mass spectrometry. <i>Nature Communications</i> , <b>2021</b> , 12, 2869	17.4	24
101	An Activatable Host-Guest Conjugate as a Nanocarrier for Effective Drug Release through Self-Inclusion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 33962-33968	9.5	3
100	Mapping Complex Disulfide Bonds via Implementing Photochemical Reduction Online with Liquid Chromatography-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 307-314	3.5	5
99	Characterization of Fatty Acyl Modifications in Phosphatidylcholines and Lysophosphatidylcholines via Radical-Directed Dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 560-568	3.5	4
98	Mapping the distribution of double bond location isomers in lipids across mouse tissues. <i>Analyst</i> , <b>2021</b> , 146, 3899-3907	5	4
97	Enabling High Structural Specificity to Lipidomics by Coupling Photochemical Derivatization with Tandem Mass Spectrometry. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 3873-3882	24.3	5
96	A liquid chromatography-mass spectrometry workflow for in-depth quantitation of fatty acid double bond location isomers. <i>Journal of Lipid Research</i> , <b>2021</b> , 62, 100110	6.3	2
95	Comprehensive Structural Characterization of Lipids by Coupling PaternBüchi Reaction and Tandem Mass Spectrometry. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2306, 53-60	1.4	0
94	Profiling of Cholesteryl Esters by Coupling Charge-Tagging PaternBüchi Reaction and Liquid Chromatography-Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 8487-8496	7.8	13
93	Comprehensive Characterization of Phospholipid Isomers in Human Platelets. <i>Journal of Analysis and Testing</i> , <b>2020</b> , 4, 210-216	3.2	2
92	Lipidome-wide characterization of phosphatidylinositols and phosphatidylglycerols on CC location level. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1128, 107-115	6.6	8

91	Coupling Headgroup and Alkene Specific Solution Modifications with Gas-Phase Ion/Ion Reactions for Sensitive Glycerophospholipid Identification and Characterization. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2020</b> , 31, 938-945	3.5	3
90	Visible-Light-Driven [2 + 2] Photocycloadditions between Benzophenone and C=C Bonds in Unsaturated Lipids. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 3499-3505	16.4	17
89	Large-scale lipid analysis with C=C location and sn-position isomer resolving power. <i>Nature Communications</i> , <b>2020</b> , 11, 375	17.4	53
88	Enhanced Phospholipid Isomer Analysis by Online Photochemical Derivatization and RPLC-MS. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 6719-6726	7.8	16
87	Analysis of ether glycerophosphocholines at the level of C=C locations from human plasma. <i>Analyst, The</i> , <b>2020</b> , 145, 513-522	5	11
86	Resolving Modifications on Sphingoid Base and -Acyl Chain of Sphingomyelin Lipids in Complex Lipid Extracts. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 14775-14782	7.8	9
85	Two-step reaction mechanism reveals new antioxidant capability of cysteine disulfides against hydroxyl radical attack. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 18216-18223	11.5	3
84	Structural elucidation of triacylglycerol using online acetone PaternB̈hi reaction coupled with reversed-phase liquid chromatography mass spectrometry. <i>Analyst, The</i> , <b>2020</b> , 145, 6532-6540	5	7
83	Next-Generation PaternB̈hi Reagents for Lipid Analysis by Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13470-13477	7.8	21
82	Analysis of Conjugated Fatty Acid Isomers by the PaternB̈hi Reaction and Trapped Ion Mobility Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7173-7180	7.8	24
81	A Polymer Coating Transfer Enrichment Method for Direct Mass Spectrometry Analysis of Lipids in Biofluid Samples. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6125-6130	3.6	2
80	A Polymer Coating Transfer Enrichment Method for Direct Mass Spectrometry Analysis of Lipids in Biofluid Samples. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6064-6069	16.4	20
79	Mapping Lipid C=C Location Isomers in Organ Tissues by Coupling Photochemical Derivatization and Rapid Extractive Mass Spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2019</b> , 445, 116206-116206	1.9	6
78	Top-Down Analysis of Disulfide-Linked Proteins Using Photoinduced Radical Reactions and ET-DDC. <i>International Journal of Mass Spectrometry</i> , <b>2019</b> , 444, 116173-116173	1.9	6
77	Coupling the PaternB̈hi (PB) Reaction With Mass Spectrometry to Study Unsaturated Fatty Acids in Mouse Model of Multiple Sclerosis. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 807	5	5
76	A lipidomic workflow capable of resolving - and C=C location isomers of phosphatidylcholines. <i>Chemical Science</i> , <b>2019</b> , 10, 10740-10748	9.4	25
75	In-depth structural characterization of phospholipids by pairing solution photochemical reaction with charge inversion ion/ion chemistry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 4739-4749	4.4	18
74	Online photochemical derivatization enables comprehensive mass spectrometric analysis of unsaturated phospholipid isomers. <i>Nature Communications</i> , <b>2019</b> , 10, 79	17.4	91

73	Point-of-Care Tissue Analysis Using Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1157-1163	11.63	29
72	Kaolin-based catalyst as a triglyceride FCC upgrading catalyst with high deoxygenation, mild cracking, and low dehydrogenation performances. <i>Catalysis Today</i> , <b>2019</b> , 319, 164-171	5.3	15
71	Rapid In Situ Profiling of Lipid C?C Location Isomers in Tissue Using Ambient Mass Spectrometry with Photochemical Reactions. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5612-5619	7.8	39
70	Expedient syntheses of N-heterocycles via intermolecular amphoteric diamination of allenes. <i>Nature Communications</i> , <b>2018</b> , 9, 721	17.4	26
69	Determining Double Bond Position in Lipids Using Online Ozonolysis Coupled to Liquid Chromatography and Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 1915-1924	7.8	47
68	Reactivity of hydropersulfides toward the hydroxyl radical unraveled: disulfide bond cleavage, hydrogen atom transfer, and proton-coupled electron transfer. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 4793-4804	3.6	8
67	UV Lamp as a Facile Ozone Source for Structural Analysis of Unsaturated Lipids Via Electrospray Ionization-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2018</b> , 29, 481-489	3.5	12
66	Shotgun Analysis of Diacylglycerols Enabled by Thiol-ene Click Chemistry. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5239-5246	7.8	8
65	Acetone/Isopropanol Photoinitiating System Enables Tunable Disulfide Reduction and Disulfide Mapping via Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 13036-13043	7.8	9
64	Heptamolybdate: a highly active sulfide oxygenation catalyst. <i>Dalton Transactions</i> , <b>2018</b> , 47, 11882-11887	7.3	4
63	Assigning Peptide Disulfide Linkage Pattern Among Regio-Isomers via Methoxy Addition to Disulfide and Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2017</b> , 28, 1099-1108	3.5	5
62	Uncovering Structural Diversity of Unsaturated Fatty Acyls in Cholesteryl Esters via Photochemical Reaction and Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2017</b> , 28, 1432-1441	3.5	33
61	Lipid Desaturation Is a Metabolic Marker and Therapeutic Target of Ovarian Cancer Stem Cells. <i>Cell Stem Cell</i> , <b>2017</b> , 20, 303-314.e5	18	282
60	Thiyl Radical-Based Charge Tagging Enables Sterol Quantitation via Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 12631-12635	7.8	7
59	Ambient Ionization and Miniature Mass Spectrometry Systems for Disease Diagnosis and Therapeutic Monitoring. <i>Theranostics</i> , <b>2017</b> , 7, 2968-2981	12.1	45
58	Photochemical Tagging for Quantitation of Unsaturated Fatty Acids by Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 8931-5	7.8	66
57	Gas-Phase Unimolecular Dissociation Reveals Dominant Base Property of Protonated Homocysteine Sulfinyl Radical Ions. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 934-40	4.8	3
56	Gas-phase reactions of cyclopropenylidene with protonated alkyl amines. <i>Analyst, The</i> , <b>2016</b> , 141, 2412-7	7.5	6

55	Power Normalization for Mass Spectrometry Data Analysis and Analytical Method Assessment. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 3156-63	7.8	6
54	A method of coupling the Patern-B $\ddot{u}$ hi reaction with direct infusion ESI-MS/MS for locating the C[double bond, length as m-dash]C bond in glycerophospholipids. <i>Analyst, The</i> , <b>2016</b> , 141, 3696-704	5	56
53	Identification and quantitation of lipid C=C location isomers: A shotgun lipidomics approach enabled by photochemical reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 2573-8	11.5	201
52	Intra-molecular reactions between cysteine sulfinyl radical and a disulfide bond within peptide ions. <i>International Journal of Mass Spectrometry</i> , <b>2015</b> , 378, 246-254	1.9	5
51	Proposed nomenclature for peptide ion fragmentation. <i>International Journal of Mass Spectrometry</i> , <b>2015</b> , 390, 24-27	1.9	51
50	Intra-molecular reactions as a new approach to investigate bio-radical reactivity: a case study of cysteine sulfinyl radicals. <i>Analyst, The</i> , <b>2014</b> , 139, 1327-30	5	8
49	Linkage determination of linear oligosaccharides by MS(n) (n > 2) collision-induced dissociation of Z $\ddot{u}$ lions in the negative ion mode. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 248-57	3.5	9
48	Assignment of the stereochemistry and anomeric configuration of sugars within oligosaccharides via overlapping disaccharide ladders using MS(n). <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 1441-50	3.5	23
47	Reactions of hydroxyalkyl radicals with cysteinyl peptides in a nanoESI plume. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 1192-201	3.5	6
46	A Mass Spectrometric Approach for Probing the Stability of Bioorganic Radicals. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 1918-1921	3.6	6
45	A mass spectrometric approach for probing the stability of bioorganic radicals. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 1887-90	16.4	12
44	Pinpointing double bonds in lipids by Patern-B $\ddot{u}$ hi reactions and mass spectrometry. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 2592-6	16.4	193
43	Titelbild: A Mass Spectrometric Approach for Probing the Stability of Bioorganic Radicals (Angew. Chem. 7/2014). <i>Angewandte Chemie</i> , <b>2014</b> , 126, 1739-1739	3.6	
42	Pinpointing Double Bonds in Lipids by Patern-B $\ddot{u}$ hi Reactions and Mass Spectrometry. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 2630-2634	3.6	32
41	Probing the radical and base dual properties of peptide sulfinyl radicals via mass spectrometry. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 11828-35	2.8	1
40	Characterization of a DAPI-RIT-DAPI system for gas-phase ion/molecule and ion/ion reactions. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 48-56	3.5	5
39	Gas-phase reactivity of peptide thiyl (RS $\ddot{u}$ ) perthiyl (RSS $\ddot{u}$ ) and sulfinyl (RSO $\ddot{u}$ ) radical ions formed from atmospheric pressure ion/radical reactions. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2013</b> , 24, 534-42	3.5	15
38	Radical cascades in electron transfer dissociation (ETD) - implications for characterizing peptide disulfide regio-isomers. <i>Analyst, The</i> , <b>2013</b> , 138, 6759-65	5	14

37	Radical induced disulfide bond cleavage within peptides via ultraviolet irradiation of an electrospray plume. <i>Analyst, The</i> , <b>2013</b> , 138, 2840-6	5	29
36	Tandem mass spectrometry (MSn) of peptide disulfide regio-isomers via collision-induced dissociation: Utility and limits in disulfide bond characterization. <i>International Journal of Mass Spectrometry</i> , <b>2013</b> , 343-344, 50-57	1.9	9
35	Competition of charge- versus radical-directed fragmentation of gas-phase protonated cysteine sulfinyl radicals. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 6226-33	16.4	19
34	Differentiation of the stereochemistry and anomeric configuration for 1-3 linked disaccharides via tandem mass spectrometry and 18O-labeling. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2012</b> , 23, 347-58	3.5	21
33	Electron transfer dissociation (ETD) of peptides containing intrachain disulfide bonds. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2012</b> , 23, 310-20	3.5	53
32	Gas-phase peptide sulfinyl radical ions: formation and unimolecular dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2012</b> , 23, 2011-9	3.5	21
31	Introduction to Mass Spectrometry <b>2011</b> , 1-57		
30	Gas-phase fragmentation of $[M+nH+OH]^{n+}$ ions formed from peptides containing intra-molecular disulfide bonds. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2011</b> , 22, 922-30	3.5	17
29	Rapid direct lipid profiling of bacteria using desorption electrospray ionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2011</b> , 301, 37-44	1.9	82
28	Study of Discontinuous Atmospheric Pressure Interfaces for Mass Spectrometry Instrumentation Development. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 6584-6592	7.8	51
27	Peptide fragmentation during nanoelectrospray ionization. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 6534-41	7.8	7
26	Plasma induced oxidative cleavage of disulfide bonds in polypeptides during nanoelectrospray ionization. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 2856-64	7.8	48
25	Birch Reduction of Benzene in a Low-Temperature Plasma. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 2051-2053	3.6	7
24	Birch reduction of benzene in a low-temperature plasma. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 2017-9	16.4	70
23	Transition metal complex cations as reagents for gas-phase transformation of multiply deprotonated polypeptides. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2009</b> , 20, 1718-22	3.5	24
22	Multiplexed four-channel rectilinear ion trap mass spectrometer. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 1570-9	7.8	15
21	Rapidly alternating transmission mode electron-transfer dissociation and collisional activation for the characterization of polypeptide ions. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 3492-7	7.8	41
20	Activation of intact electron-transfer products of polypeptides and proteins in cation transmission mode ion/ion reactions. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 1111-7	7.8	55

19	Evolution of instrumentation for the study of gas-phase ion/ion chemistry via mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2008</b> , 19, 173-89	3.5	36
18	Peptide fragmentation assisted by surfaces treated with a low-temperature plasma in nanoESI. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 8646-9	16.4	53
17	Peptide Fragmentation Assisted by Surfaces Treated with a Low-Temperature Plasma in NanoESI. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 8774-8777	3.6	5
16	Gas-phase ion/ion reactions of transition metal complex cations with multiply charged oligodeoxynucleotide anions. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2008</b> , 19, 281-93	3.5	19
15	Atmospheric pressure thermal dissociation of phospho- and sulfopeptides. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2008</b> , 19, 1897-905	3.5	13
14	Effects of cation charge-site identity and position on electron-transfer dissociation of polypeptide cations. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12232-43	16.4	70
13	Electron transfer dissociation of multiply protonated and fixed charge disulfide linked polypeptides. <i>International Journal of Mass Spectrometry</i> , <b>2007</b> , 265, 130-138	1.9	62
12	A pulsed triple ionization source for sequential ion/ion reactions in an electrodynamic ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2007</b> , 18, 369-76	3.5	26
11	Beam-type collisional activation of polypeptide cations that survive ion/ion electron transfer. <i>Rapid Communications in Mass Spectrometry</i> , <b>2007</b> , 21, 1567-73	2.2	20
10	Bidirectional ion transfer between quadrupole arrays: MS <sub>n</sub> ion/ion reaction experiments on a quadrupole/time-of-flight tandem mass spectrometer. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 8199-206	7.8	18
9	Ion trap collisional activation of c and z* ions formed via gas-phase ion/ion electron-transfer dissociation. <i>Journal of Proteome Research</i> , <b>2007</b> , 6, 3062-9	5.6	75
8	Ion trap versus low-energy beam-type collision-induced dissociation of protonated ubiquitin ions. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 1218-27	7.8	37
7	Alternately pulsed nanoelectrospray ionization/atmospheric pressure chemical ionization for ion/ion reactions in an electrodynamic ion trap. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 3208-12	7.8	89
6	Implementation of ion/ion reactions in a quadrupole/time-of-flight tandem mass spectrometer. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 4146-54	7.8	116
5	Ion/molecule reactions of cation radicals formed from protonated polypeptides via gas-phase ion/ion electron transfer. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 11792-8	16.4	49
4	Sonic spray as a dual polarity ion source for ion/ion reactions. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 3683-9	7.8	16
3	Mutual storage mode ion/ion reactions in a hybrid linear ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2005</b> , 16, 71-81	3.5	98
2	Pulsed dual electrospray ionization for ion/ion reactions. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2005</b> , 16, 1750-6	3.5	74

- 1 Positive ion transmission mode ion/ion reactions in a hybrid linear ion trap. *Analytical Chemistry*, **2004**, 76, 5006-15

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