

# Huaming Sheng

## List of Publications by Year in descending order

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43  
papers

1,085  
citations

623574

14  
h-index

414303

32  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1718  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of ionized lignin model compounds with $\beta$ -O-4 linkages by positive and negative ion mode electrospray ionization tandem mass spectrometry based on collision-activated dissociation. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9057.	0.7	2
2	Reactivity of para-benzynes in solution and in the gas phase. <i>Tetrahedron Letters</i> , 2021, 74, 153161.	0.7	3
3	Fast Determination of the Lignin Monomer Compositions of Genetic Variants of Poplar via Fast Pyrolysis/Atmospheric Pressure Chemical Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2546-2551.	1.2	4
4	Development of a highly efficient decontamination approach for ceftolozane in the pharmaceutical manufacturing environment. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 177, 112846.	1.4	2
5	Quantitative Perspective on Online Flow Reaction Profiling Using a Miniature Mass Spectrometer. <i>Organic Process Research and Development</i> , 2020, 24, 2611-2618.	1.3	3
6	Practical guide on MALDI-TOF MS method development for high throughput profiling of pharmaceutically relevant, small molecule chemical reactions. <i>Tetrahedron</i> , 2020, 76, 131434.	1.0	13
7	Studies of the Fragmentation Mechanisms of Deprotonated Lignin Model Compounds in Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 11895-11903.	3.2	9
8	Development of an automated and High throughput UHPLC/MS based workflow for cleaning verification of potent compounds in the pharmaceutical manufacturing environment. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 188, 113401.	1.4	1
9	Differentiation of Deprotonated Acyl-, $N$ -, and $O$ -Glucuronide Drug Metabolites by Using Tandem Mass Spectrometry Based on Gas-Phase Ion-Molecule Reactions Followed by Collision-Activated Dissociation. <i>Analytical Chemistry</i> , 2019, 91, 11388-11396.	3.2	14
10	Mechanistic insight into the oxazoline decomposition of DFC-M, a synthetic intermediate of florfenicol. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 174, 235-241.	1.4	0
11	Identification of Protonated Primary Carbamates by Using Gas-Phase Ion-Molecule Reactions Followed by Collision-Activated Dissociation in Tandem Mass Spectrometry Experiments. <i>Organic Process Research and Development</i> , 2019, 23, 1159-1166.	1.3	4
12	Structural elucidation of a dimeric impurity in the process development of ceftolozane using LC/HRMS and 2D-NMR. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 174, 242-247.	1.4	3
13	Identification of ortho-Substituted Benzoic Acid/Ester Derivatives via the Gas-Phase Neighboring Group Participation Effect in (+)-ESI High Resolution Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 694-703.	1.2	1
14	Ion/molecule reactions of dimethylamine with protonated analytes facilitate the identification of tertiary N-oxide functionalities in a linear quadrupole ion trap mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2018, 429, 142-150.	0.7	3
15	Substituent Effects on the Reactivity of the 2,4,6-Tridehydropyridinium Cation, an Aromatic $\pi$ - $\pi$ - $\pi$ Radical. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6582-6589.	1.2	5
16	Polar Effects Control the Gas-Phase Reactivity of para-Benzynes Analogs. <i>ChemPhysChem</i> , 2018, 19, 2839-2842.	1.0	3
17	Mapping the dark space of chemical reactions with extended nanomole synthesis and MALDI-TOF MS. <i>Science</i> , 2018, 361, .	6.0	126
18	Differentiating Isomeric Deprotonated Glucuronide Drug Metabolites via Ion/Molecule Reactions in Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 9426-9433.	3.2	16

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19	Mechanistic Study of the Gas-Phase In-Source Hofmann Elimination of Doubly Quaternized Cinchona-Alkaloid Based Phase-Transfer Catalysts by (+)-Electrospray Ionization/Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 452-460.	1.2	7
20	Unusual (+)-Electrospray ionization induced fragmentation: Structural elucidation of an in-process synthetic intermediate of doravirine (MK-07439) using liquid chromatography/high-resolution tandem mass spectrometry and two-dimensional nuclear magnetic resonance. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 719-727.	0.7	1
21	Identification of Protonated Sulfone and Aromatic Carboxylic Acid Functionalities in Organic Molecules by Using Ion-Molecule Reactions Followed by Collisionally Activated Dissociation in a Linear Quadrupole Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 2017, 89, 7398-7405.	3.2	15
22	Initial Products and Reaction Mechanisms for Fast Pyrolysis of Synthetic Lignin Oligomers with $\beta$ -O-4 Linkages via Online Mass Spectrometry and Quantum Chemical Calculations. <i>ChemistrySelect</i> , 2017, 2, 7185-7193.	0.7	12
23	( $\sim$ )ESI/CAD MS Procedure for Sequencing Lignin Oligomers Based on a Study of Synthetic Model Compounds with $\beta$ -O-4 and 5-5 Linkages. <i>Analytical Chemistry</i> , 2017, 89, 13089-13096.	3.2	22
24	Characterization of aromatic organosulfur model compounds relevant to fossil fuels by using atmospheric pressure chemical ionization with $\text{CS}_2$ and high-resolution tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 953-962.	0.7	15
25	Alkali Cation Chelation in Cold $\beta$ -O-4 Tetralignol Complexes. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7152-7166.	1.1	6
26	Gas-phase ion-molecule reactions for the identification of the sulfone functionality in protonated analytes in a linear quadrupole ion trap mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1435-1441.	0.7	9
27	Identification of N-Oxide and Sulfoxide Functionalities in Protonated Drug Metabolites by Using Ion-Molecule Reactions Followed by Collisionally Activated Dissociation in a Linear Quadrupole Ion Trap Mass Spectrometer. <i>Journal of Organic Chemistry</i> , 2016, 81, 575-586.	1.7	22
28	Applications of $\text{TiCl}_3$ as a Diagnostic Reagent for the Detection of Nitro- and N-Oxide-Containing Compounds as Potentially Mutagenic Impurities Using Ultrahigh-Performance Liquid Chromatography Coupled with High-Resolution Mass Spectrometry. <i>Organic Process Research and Development</i> , 2016, 20, 59-64.	1.3	9
29	Nickel-Catalyzed Asymmetric Alkene Hydrogenation of $\beta$ , $\beta$ -Unsaturated Esters: High-Throughput Experimentation-Enabled Reaction Discovery, Optimization, and Mechanistic Elucidation. <i>Journal of the American Chemical Society</i> , 2016, 138, 3562-3569.	6.6	165
30	Antenna Biphenols: Development of Extended Wavelength Chiroptical Reporters. <i>Journal of Organic Chemistry</i> , 2016, 81, 1185-1191.	1.7	23
31	Glycolysis Inhibitors for Anticancer Therapy: A Review of Recent Patents. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , 2016, 11, 297-308.	0.8	55
32	Mass spectrometric identification of the N-monosubstituted N-hydroxylamino functionality in protonated analytes via ion/molecule reactions in tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 730-734.	0.7	13
33	Structural Comparison of Asphaltenes of Different Origins Using Multi-stage Tandem Mass Spectrometry. <i>Energy &amp; Fuels</i> , 2015, 29, 1309-1314.	2.5	33
34	Fast Pyrolysis of $^{13}\text{C}$ -Labeled Cellobioses: Gaining Insights into the Mechanisms of Fast Pyrolysis of Carbohydrates. <i>Journal of Organic Chemistry</i> , 2015, 80, 1909-1914.	1.7	37
35	Polar effects control the gas-phase reactivity of charged para-benzyne analogs. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 39-43.	0.7	7
36	On the factors that control the reactivity of meta-benzynes. <i>Chemical Science</i> , 2014, 5, 2205-2215.	3.7	24

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37	Identification of the sulfoxide functionality in protonated analytes via ion/molecule reactions in linear quadrupole ion trap mass spectrometry. <i>Analyst</i> , The, 2014, 139, 4296-4302.	1.7	12
38	Characterization of organosolv switchgrass lignin by using high performance liquid chromatography/high resolution tandem mass spectrometry using hydroxide-doped negative-ion mode electrospray ionization. <i>Green Chemistry</i> , 2014, 16, 2713-2727.	4.6	78
39	Identification of the Sulfone Functionality in Protonated Analytes via Ion/Molecule Reactions in a Linear Quadrupole Ion Trap Mass Spectrometer. <i>Journal of Organic Chemistry</i> , 2014, 79, 2883-2889.	1.7	16
40	Synthesis, biology and clinical significance of pentacyclic triterpenes: a multi-target approach to prevention and treatment of metabolic and vascular diseases. <i>Natural Product Reports</i> , 2011, 28, 543.	5.2	247
41	Metabolic Targeting of Cancers: From Molecular Mechanisms to Therapeutic Strategies. <i>Current Medicinal Chemistry</i> , 2009, 16, 1561-1587.	1.2	30
42	Synthesis of 3-Deoxypentacyclic Triterpene Derivatives as Inhibitors of Glycogen Phosphorylase. <i>Journal of Natural Products</i> , 2009, 72, 1414-1418.	1.5	14
43	Differentiation of Protonated Sulfonate Esters from Isomeric Sulfite Esters and Sulfones by Gas-Phase Ion-Molecule Reactions Followed by Diagnostic Collision-Activated Dissociation in Tandem Mass Spectrometry Experiments. <i>Analytical Chemistry</i> , 0, , .	3.2	1