

Yi-Sheng Wang

List of Publications by Year in descending order

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51
papers

1,706
citations

331670

21
h-index

276875

41
g-index

54
all docs

54
docs citations

54
times ranked

1779
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared Spectra of H+(H ₂ O) ₅₋₈ Clusters: Evidence for Symmetric Proton Hydration. <i>Journal of the American Chemical Society</i> , 2000, 122, 1398-1410.	13.7	337
2	Investigations of Protonated and Deprotonated Water Clusters Using a Low-Temperature 22-Pole Ion Trap. <i>Journal of Physical Chemistry A</i> , 2003, 107, 4217-4225.	2.5	117
3	Matrix-assisted laser desorption/ionization (MALDI) mechanism revisited. <i>Analytica Chimica Acta</i> , 2007, 582, 1-9.	5.4	108
4	Infrared spectra and isomeric structures of hydroxide ion-water clusters OH ⁻ (H ₂ O) ₁₋₅ : a comparison with H ₃ O ⁺ (H ₂ O) ₁₋₅ . <i>Molecular Physics</i> , 2001, 99, 1161-1173.	1.7	89
5	Selective Extraction and Enrichment of Multiphosphorylated Peptides Using Polyarginine-Coated Diamond Nanoparticles. <i>Analytical Chemistry</i> , 2008, 80, 3791-3797.	6.5	83
6	Vibrational predissociation spectra and hydrogen-bond topologies of H+(H ₂ O) ₉₋₁₁ . <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 938-944.	2.8	82
7	Matrix-assisted laser desorption/ionization mass spectrometry of polysaccharides with 2,4,6-trihydroxyacetophenone as matrix. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 2137-2146.	1.5	68
8	Identifying 2- and 3-coordinated H ₂ O in protonated ion-water clusters by vibrational pre-dissociation spectroscopy and ab initio calculations. <i>Journal of Chemical Physics</i> , 1997, 107, 9695-9698.	3.0	67
9	Hydrogel Micropatches for Sampling and Profiling Skin Metabolites. <i>Analytical Chemistry</i> , 2014, 86, 2337-2344.	6.5	62
10	Hydrogel Micropatch and Mass Spectrometry-Assisted Screening for Psoriasis-Related Skin Metabolites. <i>Clinical Chemistry</i> , 2016, 62, 1120-1128.	3.2	52
11	Efficient enrichment of phosphopeptides by magnetic TiO ₂ -coated carbon-encapsulated iron nanoparticles. <i>Proteomics</i> , 2012, 12, 380-390.	2.2	50
12	Fragmentation of heme and hemin ⁺ with sequential loss of carboxymethyl groups: A DFT and mass-spectrometry study. <i>Chemical Physics Letters</i> , 2005, 415, 362-369.	2.6	37
13	Graphene oxide membrane as an efficient extraction and ionization substrate for spray-mass spectrometric analysis of malachite green and its metabolite in fish samples. <i>Analytica Chimica Acta</i> , 2018, 1003, 42-48.	5.4	34
14	Selective Enhancement of Carbohydrate Ion Abundances by Diamond Nanoparticles for Mass Spectrometric Analysis. <i>Analytical Chemistry</i> , 2013, 85, 3836-3841.	6.5	33
15	Reducing Spatial Heterogeneity of MALDI Samples with Marangoni Flows During Sample Preparation. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1314-1321.	2.8	33
16	Time resolved laser-induced fluorescence of electrosprayed ions confined in a linear quadrupole trap. <i>Review of Scientific Instruments</i> , 2004, 75, 4511-4515.	1.3	28
17	Peptide analysis: Solid phase extraction-elution on diamond combined with atmospheric pressure matrix-assisted laser desorption/ionization-Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Biochemistry</i> , 2007, 367, 190-200.	2.4	26
18	Initial Ionization Reaction in Matrix-Assisted Laser Desorption/Ionization. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10853-10859.	2.6	25

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19	Solid-Phase Thermodynamic Interpretation of Ion Desorption in Matrix-Assisted Laser Desorption/Ionization. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13847-13852.	2.6	24
20	Simultaneous Mass Analysis of Positive and Negative Ions Using a Dual-Polarity Time-of-Flight Mass Spectrometer. <i>Analytical Chemistry</i> , 2006, 78, 7729-7734.	6.5	23
21	Critical factors determining the quantification capability of matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150371.	3.4	23
22	Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry: Mechanistic Studies and Methods for Improving the Structural Identification of Carbohydrates. <i>Mass Spectrometry</i> , 2017, 6, S0072-S0072.	0.6	23
23	Matrix-assisted laser desorption/ionization mechanism study with dihydroxybenzoic acid isomers as matrices. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 130-134.	1.5	21
24	Incoherent production reactions of positive and negative ions in matrix-assisted laser desorption/ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1078-1086.	2.8	20
25	Ultrasound ionization of biomolecules. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2569-2574.	1.5	18
26	Analysis of Initial Reactions of MALDI Based on Chemical Properties of Matrixes and Excitation Condition. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9635-9643.	2.6	18
27	Desorption dynamics of neutral molecules in matrix-assisted laser desorption/ionization. <i>Molecular Physics</i> , 2008, 106, 239-247.	1.7	17
28	On the Search for H ₅ O ₂ ⁺ -centered Water Clusters in the Gas Phase. <i>Journal of the Chinese Chemical Society</i> , 1999, 46, 427-434.	1.4	14
29	 $\frac{d}{dt} \left(\frac{d}{dt} \right) = \frac{d}{dt} \left(\frac{d}{dt} \right)$	2.6	14
30	A deeper look into sonic spray ionization. <i>RSC Advances</i> , 2014, 4, 61290-61297.	3.6	14
31	Coupled Space- and Velocity-Focusing in Time-of-Flight Mass Spectrometry—a Comprehensive Theoretical Investigation. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1722-1731.	2.8	10
32	Functionalized HgTe nanoparticles promote laser-induced solid phase ionization/dissociation for comprehensive glycan sequencing. <i>Analyst</i> , 2016, 141, 6093-6103.	3.5	10
33	Comprehensive molecular imaging of photolabile surface samples with synchronized dual-polarity time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 834-842.	1.5	9
34	Dissociation of heme from gaseous myoglobin ions studied by infrared multiphoton dissociation spectroscopy and Fourier-transform ion cyclotron resonance mass spectrometry. <i>Journal of Chemical Physics</i> , 2006, 125, 133310.	3.0	8
35	Bipolar Ion Detector Based on Sequential Conversion Reactions. <i>Analytical Chemistry</i> , 2007, 79, 1277-1282.	6.5	8
36	Ionizing nonvolatile samples using laser desorption-proton-transfer reaction with cluster reagent ions. <i>International Journal of Mass Spectrometry</i> , 2010, 291, 61-66.	1.5	8

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37	Enhancing carbohydrate ion yield by controlling crystalline structures in matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2017, 994, 49-55.	5.4	8
38	Contribution of thermal energy to initial ion production in matrix-assisted laser desorption/ionization observed with 2,4,6-trihydroxyacetophenone. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1716-1722.	1.5	7
39	Impact of uneven sample morphology on mass resolving power in linear MALDI-TOF mass spectrometry: A comprehensive theoretical investigation. <i>Journal of Mass Spectrometry</i> , 2018, 53, 361-368.	1.6	7
40	Synchronized dual-polarity electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 2254-2257.	2.8	6
41	Theoretical study of C ₆₀ (OH) ₂₀ and C ₆₀ (OH) ₁₈ fullerenols and B ₁₂ (OH) ₁₂ , Si ₂₀ O ₃₀ (OH) ₂₀ , and Ti ₂₀ O ₃₀ (OH) ₂₀ polyhydroxyl clusters and their Li-substituted derivatives. <i>Russian Journal of Inorganic Chemistry</i> , 2012, 57, 970-980.	1.3	4
42	Macromolecular Ion Accelerator. <i>Analytical Chemistry</i> , 2012, 84, 5765-5769.	6.5	4
43	Preparation of Homogeneous MALDI Samples for Quantitative Applications. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	4
44	Effective analysis of degree of polymerization of polysialic acids in mass spectrometry by combining novel sample preparation and dynamic instrument optimization methods. <i>Carbohydrate Research</i> , 2019, 471, 78-84.	2.3	4
45	A Dynamic Data Correction Method for Enhancing Resolving Power of Integrated Spectra in Spectroscopic Analysis. <i>Analytical Chemistry</i> , 2020, 92, 12763-12768.	6.5	4
46	Theoretical study of the impact of ion acceleration parameters on the mass resolving power in linear MALDI time-of-flight mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2022, 471, 116756.	1.5	4
47	A neutralization charge detection method for detecting ions under ambient and liquid-phase conditions. <i>Chemical Communications</i> , 2016, 52, 5187-5189.	4.1	3
48	Active Humoral Response Reverts Tumorigenicity through Disruption of Key Signaling Pathway. <i>Vaccines</i> , 2022, 10, 163.	4.4	3
49	Theoretical and experimental study of fullereneol molecules and ions C ₆₀ (OH) ₂₄ and C ₆₀ (OH) ₂₄ successively substituted by Alkali Metal atoms L (n = 1~24). <i>Russian Journal of Inorganic Chemistry</i> , 2011, 56, 580-590.	1.3	2
50	Macromolecular ion accelerator mass spectrometer. <i>Analyst</i> , 2013, 138, 7384.	3.5	2
51	An Efficient Sample Preparation Method to Enhance Carbohydrate Ion Signals in Matrix-assisted Laser Desorption/Ionization Mass Spectrometry. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	0