

# Xianglei Kong

## List of Publications by Year in descending order

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66  
papers

1,295  
citations

430442

18  
h-index

377514

34  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1460  
citing authors

#	ARTICLE	IF	CITATIONS
1	Top-down MS, a powerful complement to the high capabilities of proteolysis proteomics. FEBS Journal, 2007, 274, 6256-6268.	2.2	157
2	Carbon Nanodots As a Matrix for the Analysis of Low-Molecular-Weight Molecules in Both Positive- and Negative-Ion Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry and Quantification of Glucose and Uric Acid in Real Samples. Analytical Chemistry, 2013, 85, 6646-6652.	3.2	151
3	Polylysine-Coated Diamond Nanocrystals for MALDI-TOF Mass Analysis of DNA Oligonucleotides. Analytical Chemistry, 2005, 77, 4273-4277.	3.2	139
4	Progressive Stabilization of Zwitterionic Structures in [H(Ser) <sub>2</sub> ] <sup>8+</sup> Studied by Infrared Photodissociation Spectroscopy. Angewandte Chemie - International Edition, 2006, 45, 4130-4134.	7.2	74
5	Proposed nomenclature for peptide ion fragmentation. International Journal of Mass Spectrometry, 2015, 390, 24-27.	0.7	63
6	Numerous Isomers of Serine Octamer Ions Characterized by Infrared Photodissociation Spectroscopy. ChemPhysChem, 2009, 10, 2603-2606.	1.0	37
7	Difference in formation of carbon cluster cations by laser ablation of graphene and graphene oxide. Journal of Mass Spectrometry, 2012, 47, 523-528.	0.7	32
8	Cluster-assistant generation of multiply charged atomic ions in nanosecond laser ionization of seeded methyl iodide beam. Chemical Physics, 2005, 310, 17-24.	0.9	30
9	Base-Mediated Cascade Substitution-Cyclization of 2-H-Azirines: Access to Highly Substituted Oxazoles. Organic Letters, 2017, 19, 3370-3373.	2.4	30
10	Supramolecular Radiosensitizer Based on Hypoxia-Responsive Macrocyclic. Advanced Science, 2022, 9, e2104349.	5.6	27
11	Cluster assistant generation of C <sub>2</sub> <sup>+</sup> and C <sub>3</sub> <sup>+</sup> ions in nanosecond laser ionization of seeded benzene beam. Chemical Physics Letters, 2004, 388, 139-143.	1.2	26
12	Chirality effects on proline-substituted serine octamers revealed by infrared photodissociation spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 1554-1558.	1.3	26
13	KI/TBHP-mediated oxidative cross-coupling of enamines and carboxylic acids under metal-free conditions: a facile access to functionalized 2H-azirines. Tetrahedron Letters, 2016, 57, 1446-1450.	0.7	26
14	Chiral differentiation of D- and L-isoleucine using permethylated β <sup>2</sup> -cyclodextrin: infrared multiple photon dissociation spectroscopy, ion-mobility mass spectrometry, and DFT calculations. Physical Chemistry Chemical Physics, 2018, 20, 30428-30436.	1.3	24
15	Structure of Protonated Threonine Dimers in the Gas Phase: Salt-Bridged or Charge-Solvated?. Journal of the American Society for Mass Spectrometry, 2015, 26, 1455-1461.	1.2	22
16	Chiral differentiation of D- and L-alanine by permethylated β <sup>2</sup> -cyclodextrin: IRMPD spectroscopy and DFT methods. Physical Chemistry Chemical Physics, 2017, 19, 14729-14737.	1.3	22
17	Large Carbon Cluster Anions Generated by Laser Ablation of Graphene. Journal of the American Society for Mass Spectrometry, 2011, 22, 2033-41.	1.2	21
18	Applications of Graphene in Mass Spectrometry. Journal of Nanoscience and Nanotechnology, 2014, 14, 4719-4732.	0.9	20

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19	Reinvestigation of the Structure of Protonated Lysine Dimer. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 422-426.	1.2	18
20	Structural characterizations of protonated homodimers of amino acids: Revealed by infrared multiple photon dissociation (IRMPD) spectroscopy and theoretical calculations. <i>Chinese Chemical Letters</i> , 2018, 29, 1333-1339.	4.8	18
21	Synthesis of Triazole-Epothilones by Using Cu <sub>2</sub> O Nanoparticles to Catalyze 1,3-Dipolar Cycloaddition. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 500-508.	1.2	17
22	Geometries of the Halocarbene anions HCF <sup>-</sup> and CF <sub>2</sub> <sup>-</sup> : ab initio calculation and Franck-Condon analysis. <i>Computational and Theoretical Chemistry</i> , 2004, 672, 133-139.	1.5	13
23	An Unexpected Potassium Iodide-Promoted Nucleophilic Substitution Reaction between 2-Acyloxy-Hazirines and Carboxylic Acids. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3161-3166.	2.1	13
24	Application of Infrared Multiple Photon Dissociation (IRMPD) Spectroscopy in Chiral Analysis. <i>Molecules</i> , 2020, 25, 5152.	1.7	13
25	Encapsulation of an Ionic Bond in Fullerenes: What is the Difference?. <i>Inorganic Chemistry</i> , 2019, 58, 3601-3605.	1.9	12
26	Structure of protonated tryptophan dimer in the gas phase investigated by IRPD spectroscopy and theoretical calculations. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 24-28.	0.7	11
27	Encapsulation of Platinum in Fullerenes: Is That Possible?. <i>Inorganic Chemistry</i> , 2017, 56, 6035-6038.	1.9	11
28	Franck-Condon simulation of photoelectron spectroscopy of HNO <sup>-</sup> and DNO <sup>-</sup> : including Duschinsky effects. <i>Chemical Physics</i> , 2003, 294, 85-94.	0.9	10
29	Application of Nanodiamonds in Biomolecular Mass Spectrometry. <i>Materials</i> , 2010, 3, 1845-1862.	1.3	10
30	Effects of Alkali Metal Ion Cationization on Fragmentation Pathways of Triazole-Epothilone. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1126-1134.	1.2	10
31	Generation of $M@C_{2n}$ (M = Ca, Sr, Ba, 2n = 50-230) by laser ablation of graphene. <i>International Journal of Mass Spectrometry</i> , 2014, 372, 1-7.	0.7	10
32	Medium-sized phosphorus cluster cations $P_n^{+1}$ ( $6 \leq n \leq 32$ ) studied by collision-induced dissociation mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1352-1357.	0.7	10
33	Collision-induced dissociation mass spectrometry of phosphorus cluster anions $P_n^{-1}$ ( $6 \leq n \leq 32$ ) studied by collision-induced dissociation mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1352-1357.	0.7	10
34	Structures and Superhalogen Properties of Pt <sub>2</sub> Cl <sub>n</sub> (2 ≤ n ≤ 10) Clusters. <i>Journal of Physical Chemistry A</i> , 2019, 123, 187-193.	1.1	10
35	Formation of endohedral metallofullerene (EMF) ions of (M@La, Y, nA <sub>6</sub> , 50A <sub>2</sub> mA <sub>194</sub> ) in the laser ablation process with graphene as precursor. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 865-872.	0.7	9
36	Chiral Differentiation of Non-Covalent Diastereomers Based on Multichannel Dissociation Induced by 213-nm Ultraviolet Photodissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2297-2305.	1.2	9

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37	Size Effect on Auophilic Interaction in Gold-Chloride Cluster Anions of Au <sub>n</sub> Cl <sub>n+1</sub> <sup>+</sup> (2 ≤ n ≤ 7). ACS Omega, 2019, 4, 650-654.	1.6	9
38	Dissociation of heme from gaseous myoglobin ions studied by infrared multiphoton dissociation spectroscopy and Fourier-transform ion cyclotron resonance mass spectrometry. Journal of Chemical Physics, 2006, 125, 133310.	1.2	8
39	Rapid MALDI mass spectrometric analysis with prestructured membrane filters and functionalized diamond nanocrystals. Analytica Chimica Acta, 2010, 659, 201-207.	2.6	8
40	Generation of (M = K, Rb, Cs, 2n = 80-220) by laser ablation of graphene. Rapid Communications in Mass Spectrometry, 2015, 29, 1774-1778.	0.7	8
41	Selection of Internal Standards for Quantitative Matrix-Assisted Laser Desorption/Ionization Mass Spectrometric Analysis Based on Correlation Coefficients. ACS Omega, 2019, 4, 8249-8254.	1.6	8
42	Chiral differentiation of - and -penicillamine by β <sup>2</sup> -cyclodextrin: Investigated by IRMPD spectroscopy and theoretical simulations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 241, 118653.	2.0	8
43	Use of graphene as a matrix to minimize reduction in the process of matrix-assisted laser desorption/ionization. Rapid Communications in Mass Spectrometry, 2013, 27, 1278-1282.	0.7	7
44	Metallofullerene ions of LnC <sub>2m</sub> <sup>+</sup> (1 ≤ n ≤ 9, 50 ≤ 2 m ≤ 198) generated by laser ablation of graphene/LuCl <sub>3</sub> . International Journal of Mass Spectrometry, 2017, 422, 105-110.	0.7	7
45	Charge-state Resolved Infrared Multiple Photon Dissociation (IRMPD) Spectroscopy of Ubiquitin Ions in the Gas Phase. Scientific Reports, 2017, 7, 16592.	1.6	7
46	A systematic study on the generation of multimetallic lanthanide fullerene ions by laser ablation mass spectrometry. Rapid Communications in Mass Spectrometry, 2018, 32, 1396-1402.	0.7	7
47	Serine-phosphoric acid cluster ions studied by electrospray ionization and tandem mass spectrometry. Journal of Mass Spectrometry, 2011, 46, 535-545.	0.7	6
48	Chiral differentiation of amino acids by the kinetic method by Fourier transform ion cyclotron resonance mass spectrometry via a different dissociation pathway. Rapid Communications in Mass Spectrometry, 2012, 26, 870-873.	0.7	5
49	Dimetallofullerene M <sub>2</sub> @C <sub>100</sub> or carbide cluster fullerene M <sub>2</sub> C <sub>2</sub> @C <sub>98</sub> (M = La, Y, and Sc): which ones are more stable?. RSC Advances, 2017, 7, 16149-16154.	1.7	5
50	Competition between metal cationization and protonation/reduction in MALDI process: An example of riboflavin. International Journal of Mass Spectrometry, 2018, 434, 209-214.	0.7	5
51	Wavelength-Dependent Ultraviolet Photodissociation of Protonated Tryptamine. Journal of Physical Chemistry A, 2020, 124, 5280-5287.	1.1	5
52	IRMPD spectroscopy of metal cationized ions generated by MALDI source with graphene as the matrix. International Journal of Mass Spectrometry, 2017, 419, 37-43.	0.7	4
53	Greatly Enhanced Electron Affinities of Au <sub>2n</sub> Cl Clusters (n = 1-4): Effects of Chlorine Doping. ACS Omega, 2019, 4, 17295-17300.	1.6	4
54	Versatile Double-Beam Confocal Laser System Combined with a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer for Photodissociation Mass Spectrometry and Spectroscopy. Analytical Chemistry, 2021, 93, 9056-9063.	3.2	4

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55	Differentiation of disaccharide isomers via a combination of IR and UV photodissociation mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2022, 36, e9218.	0.7	4
56	Generation of sodium halide endohedral metallofullerenes in the gas phase. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8826.	0.7	3
57	Search for Global Minimum Structures of P <sub>2n+1</sub> <sup>+</sup> (n = 1–15) Using xTB-Based Basin-Hopping Algorithm. <i>Frontiers in Chemistry</i> , 2021, 9, 694156.	1.8	3
58	Structural Diversity of Di-Metalized Arginine Evidenced by Infrared Multiple Photon Dissociation (IRMPD) Spectroscopy in the Gas Phase. <i>Molecules</i> , 2021, 26, 6546.	1.7	3
59	Chiral Differentiation of Amino Acids by In-Source Collision-Induced Dissociation Mass Spectrometry. <i>Mass Spectrometry</i> , 2014, 3, S0031-S0031.	0.2	2
60	Superhalogen Species of Titanium Oxide Related Clusters Generated by Laser Ablation. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6787-6791.	1.1	2
61	Phosphorus Clusters and Quantum Dots. <i>ACS Symposium Series</i> , 2019, , 79-102.	0.5	2
62	Homochiral or Heterochiral: A Systematic Study of Threonine Clusters Using a FT ICR Mass Spectrometer. <i>Symmetry</i> , 2022, 14, 86.	1.1	2
63	A novel method for photon unfolding spectroscopy of protein ions in the gas phase. <i>Review of Scientific Instruments</i> , 2022, 93, 043003.	0.6	2
64	Sodium-ion-induced reversal of chiral preference observed in proline clusters in the gas phase. <i>International Journal of Mass Spectrometry</i> , 2022, 478, 116868.	0.7	2
65	Intramolecular oxo-Diels-Alder rearrangement in collisionally activated dissociation of protonated ions of a macrocyclic molecule: triazole-epothilone dimer. <i>Journal of Mass Spectrometry</i> , 2014, 49, 755-762.	0.7	1
66	Geometrical Structures and Dissociation Channels of CuP <sub>2n</sub> <sup>+</sup> (n = 1–11): Studied by Mass Spectrometry and Theoretical Calculations. <i>ACS Omega</i> , 2022, 7, 7134-7138.	1.6	1