

Chi-Kit Siu

Academic qualifications:

B. Sc. (1 st Hon.)	Chinese University Hong Kong	1997
M. Phil.	Chinese University Hong Kong	1999
Ph. D.	Chinese University Hong Kong	2003

Academic positions:

Assistant Professor	City University of Hong Kong	2009–present
Postdoctoral Fellow	York University	2005–2009
Postdoctoral Fellow	Technische Universität München	2003–2005

Awards:

Postdoctoral Fellowship	Alexander von Humboldt Foundation	2003–2005
Anna Leung-Yee Tang Scholarship	Chinese University of Hong Kong	1996–1997
Dow Chemical Pacific Ltd. Scholarship	Dow Chemical Pacific Ltd. (HK)	1995–1996

Selected Publications (out of total 33 refereed publications):

Gas-phase dissociations of peptide ions.

1. “Effect of the N-terminal basic residue on facile C_α–C bond cleavages of aromatic-containing peptide radical cations” *Phys. Chem. Chem. Phys.* **2011**, *13*, 5888-5896.
2. “Arginine-Facilitated α - and π -Radical Migrations in Glycylarginyltryptophan Radical Cations” *Chem. Asian J.* **2011**, *6*, 888-898.
3. “Formation, Isomerization, and Dissociation of α -Carbon-Centered and π -Centered Glycylglycyltryptophan Radical Cations” *J. Phys. Chem. B* **2010**, *114*, 2270-2280.
4. “Kinetics for Tautomerizations and Dissociations of Triglycine Radical Cations” *J. Am. Soc. Mass Spectrom.* **2009**, *20*, 996-1005.
5. “Dissociation of the N-C_α Bond and Competitive Formation of the [z_n - H]⁺ and [c_n+2H]⁺ Product Ions in Radical Peptide Ions Containing Tyrosine and Tryptophan: The Influence of Proton Affinities on Product Formation. *J. Am. Soc. Mass Spectrom.* **2008**, *19*, 1799-1807.
6. “Dissociations of Copper(II)-Containing Complexes of Aromatic Amino Acids: Radical Cations of Tryptophan, Tyrosine, and Phenylalanine.” *Phys. Chem. Chem. Phys.* **2008**, *10*, 5908-5918.
7. “Structure of the Observable Histidine Radical Cation in the Gas Phase: A Captodative α -Radical Ion” *Angew. Chem. Int. Ed.* **2008**, *47*, 9666-9668.
8. “Dipositively Charged Protonated a₃ and a₂ Ions: Generation by Fragmentation of [La(GGG)(CH₃CN)₂]³⁺” *Angew. Chem. Int. Ed.* **2008**, *47*, 8288-8291.

Solvation structures in nano-water droplets.

9. “Selective Formic Acid Synthesis from Nanoscale Electrochemistry” *Angew. Chem. Int. Ed.* **2010**, *49*, 8257-8259.
10. “Reactions of Large Water Cluster Anions with Hydrogen Chloride: Formation of Atomic Hydrogen and Phase Separation in the Gas Phase” *J. Am. Chem. Soc.* **2007**, *129*, 3238-3246.
11. “Ab Initio Molecular Dynamics Studies of Ionic Dissolution and Precipitation of Sodium Chloride and Silver Chloride in Water Clusters, NaCl(H₂O)_n and AgCl(H₂O)_n, n = 6, 10, and 14” *Chem. Eur. J.* **2006**, *12*, 6382-6392.
12. “Proton Transfer in Ionic Water Clusters” *Angew. Chem. Int. Ed.* **2006**, *45*, 4027-4030.
13. “Reaction Mechanisms for the Size-Dependent Hydrogen-Loss in Mg⁺(H₂O)_n: Solvation Controlled Electron Transfer” *Phys. Chem. Chem. Phys.* **2005**, *7*, 1005-1013.
14. “Reactions of Hydrated Electrons (H₂O)_n⁻ with Carbon Dioxide and Molecular Oxygen: Hydration of the CO₂⁻ and O₂⁻ Ions” *Chem. Eur. J.* **2004**, *10*, 4822-4830.
15. “Ab Initio Studies on Al⁺(H₂O)_n, HAlOH⁺(H₂O)_{n-1}, and the Size-Dependent H₂ Elimination Reaction” *J. Am. Chem. Soc.* **2002**, *124*, 10846-10860.
16. “Ab Initio Studies on the Mechanism of the Size-Dependent Hydrogen-Loss Reaction in Mg⁺(H₂O)_n” *Chem. Eur. J.* **2002**, *8*, 3177-3186.