

有机质谱学

质谱学方法研究 $H^+(H_2O)_n$ ($n=4\sim 16$) 团簇的解离过程

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摘要

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Study of the $H^+(H_2O)_n$ ($n=4-16$) Dissociation Using Mass Spectrometry

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Abstract The forms of water vapor in the atmospheric circumstance were observed using a triple quadrupole mass spectrometer. There was not any single H_2O , which were detected, and $H^+(H_2O)_n$, $n=3-37$ were the main forms of water in gas phase. The collisional induced dissociation (CID) mass spectrometry was studied, which showed that the main dissociation products of $H^+(H_2O)_n$ ($n=4-16$) were $H^+(H_2O)_4$ and/or $H^+(H_2O)_5$.

Key words [water](#) [cluster](#) [atmospheric](#) [circumstance](#) [mass](#) [spectrometry](#) [dissociation](#)

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