

基质辅助激光解吸电离飞行时间质谱研究2: 四硫 富瓦烯化合物

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摘要 采用基质辅助激光解吸电离飞行时间质谱(MALDI-TOF-MS),对四硫富瓦烯化合物进行质谱表征。在所用的实验条件下,样品很容易解吸电离生成单电荷分子离子,得到单同位素分辨的质谱图。26种实际样品的质谱分析结果表明;MALDI-TOF-MS可以比其它质谱方法更有效、更方便地用于此类化合物的质谱分析,解决了此类化合物不易进行质谱鉴定的难题。

关键词 [飞行时间质谱法](#) [四硫富瓦烯](#) [结构表征](#)

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Studies on the matrix assisted laser desorption/ionization time of flight mass spectrometry 2: Tetrathiafulvalene compounds

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Abstract matrix assisted laser desorption/ionization time of flight (MALDI- TOF) mass spectrometry was used for the characterization of tetrathiafulvalene compounds. Under the experimental conditions of MALDI-TOF, the samples could be easily desorpted and ionized into singly charged ions. The mass spectra with mono isotope resolution thus could be obtained. The mass analytical results of twenty-six compounds showed that for the tetrathiafulvalene compounds MALDI-TOF was more effective, more convenient than other mass spectrometry methods. The problem that some tetrathiafulvalene compounds could not be identified by mass spectrometry was also resolved.

Key words [TIME-OFF FLIGHT MASS SPECTROMETRY](#) [TETRATHIAFULVALENE](#) [STRUCTURE CHARACTERISTICS](#)

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