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同轴式电化学电喷雾质谱离子源研究蒽电化学衍生十二胺

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Online Electrochemistry/Electrospray Mass Spectrometry with a Coaxial Probe for Investigation of Electrochemical Derivatization of Anthracene with Dodecylamine

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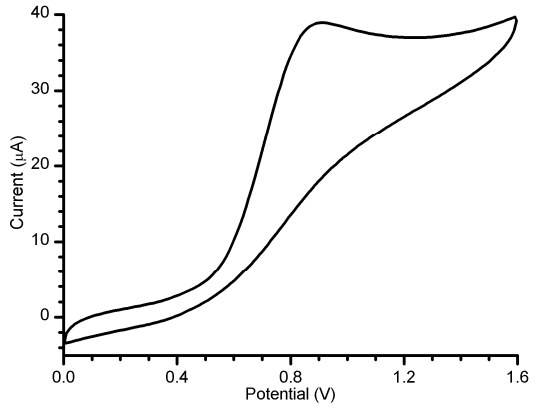


Fig.S1 Hydrodynamic voltammogram of 2 mmol·L^{-1} triethylamine/8 mmol·L^{-1} $AgClO_4$/MeCN. Sweep rate: 0.1 V·s^{-1}. Flow rate: 3.6 μL·min^{-1}.

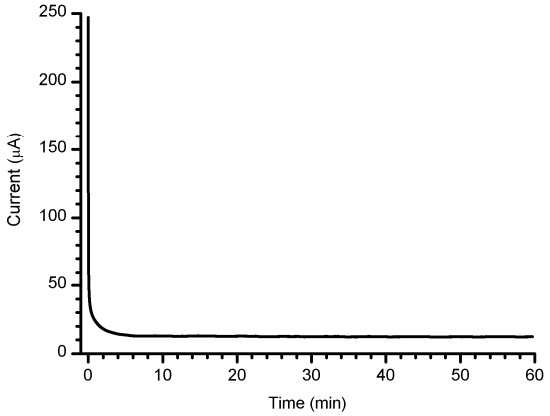


Fig.S2 Electrochemical current vs time profile of 2 mmol·L^{-1} aniline/8 mmol·L^{-1} $AgClO_4$/MeCN during a constant potential electrolysis at 1.0 V ($E_{pa} \approx$ 0.7 V). Flow rate: 3.6 μL·min^{-1}.

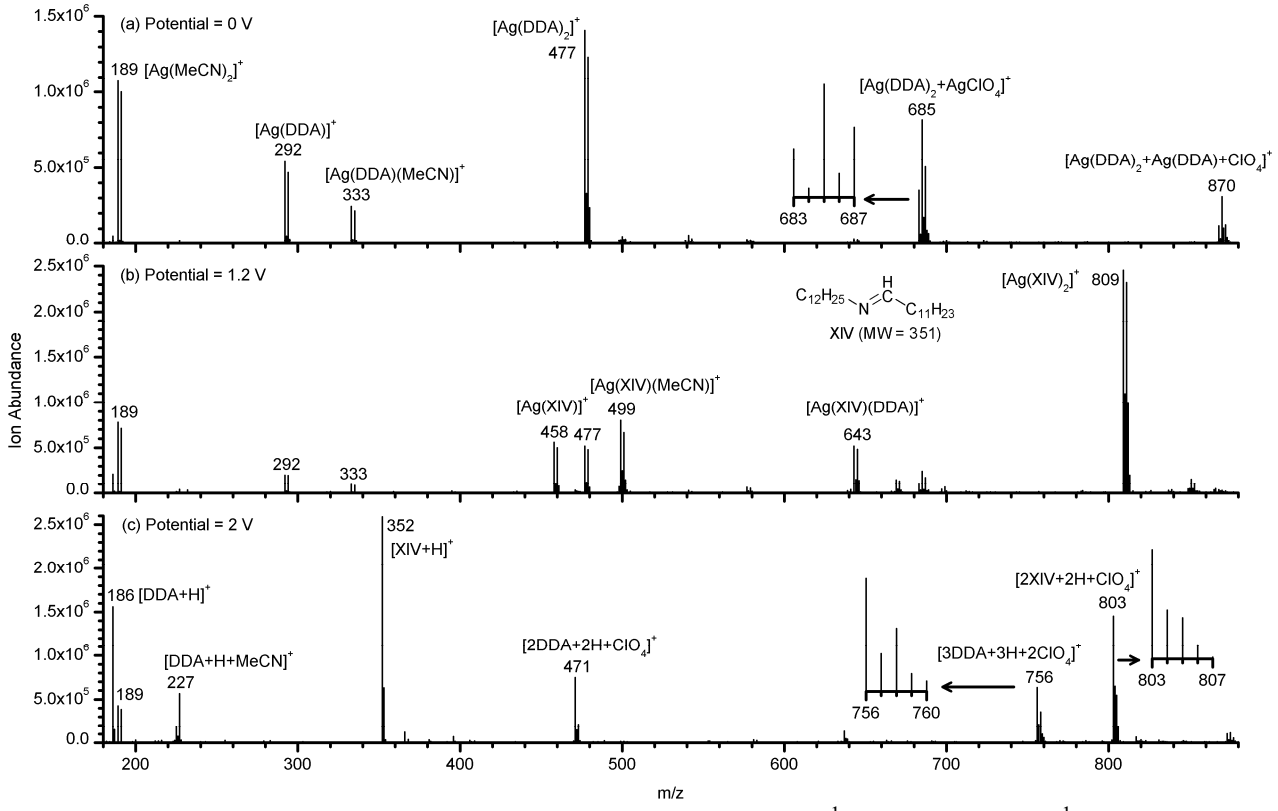
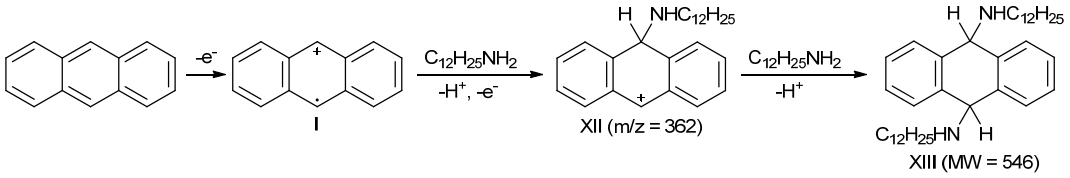


Fig.S3 Mass spectra (averaged from 10 scans) of 2 mmol·L^{-1} DDA/8 mmol·L^{-1} $AgClO_4$/MeCN obtained during an online EC/ESI-MS potential step experiment at potentials of (a) 0 V and (b) 1.2 V, and (c) 2 V. Flow rate: 3.6 μL·min^{-1}.



Scheme S1