

二茂铁衍生物LB膜修饰Pt电极的循环伏安法性能

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摘要 本文研究了单取代二茂铁酯和双取代亚麻酸二茂铁酯LB膜修饰Pt电极的循环伏安法性能,用修饰电极的循环伏安模型对实验结果进行拟合,计算了在转移压力分别为20,30,40mN·m<sup>-1</sup>

下LB膜修饰Pt电极的覆盖度,并分析和讨论了不同转移压力下修饰的二茂铁LB膜的电荷转移中介作用

关键词 [化学修饰电极](#) [二茂铁](#) [循环伏安法](#) [表面覆盖度](#) [L-B膜](#) [二茂铁酯](#) [亚麻酸二茂铁酯](#)

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## A study on the cyclic voltammetric behaviors of ferrocene derivative LB films modified Pt electrode

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**Abstract** The cyclic voltammetric behaviors of Pt electrode modified with ferrocene derivative LB films were studied in K<sub>4</sub>Fe(CN)<sub>6</sub> and ascorbic acid solns., resp. Cyclic voltammetric theory (model) of modified electrode was employed to obtain the experimental data using a computer fitting approach. Quant. agreement between experiment and theory was obtained. The coverage of LB films modified on Pt electrode under surface pressure of 20, 30, 40 nNm<sup>-1</sup> was estimated and the mediation of charge transfer of modified LB films under different surface pressure was discussed.

**Key words** [CHEMICAL MODIFIED ELECTRODE](#) [FERROCENE](#) [CYCLOVOLTAMGRAPH](#) [SURFACE COVERAGE](#) [L-B MEMBRANE](#)

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