

倒数示波计时电位法的研究:新线路的研制及应用

朱俊杰,郑建斌,沈岚,高鸿,卜海之

南京大学化学系;中国军事医学科学院药理毒理研究所

收稿日期 修回日期 网络版发布日期 接受日期

**摘要** 本文研制了获得倒数示波计时电位图的新线路,并加上电流反馈装置。这套装置具有灵敏度高、稳定性好等特点,应用此线路,我们用新的方法进行了峰电位的测量、痕量物质的分析及药品含量测定。

**关键词** [药物分析](#) [吡啶 P](#) [痕量分析](#) [卟](#) [电位法](#) [示波滴定](#) [倒数线路](#)

分类号 [0646](#)

## Investigation on reciprocal oscillographic chronopotentiometry-preparation and application of new circuit

ZHU JUNJIE,ZHENG JIANBIN,SHEN LAN,GAO HONG,BU HAIZHI

**Abstract** Reciprocal oscillog. chronopotentiometry is a new method which can overcome some weak points of classical oscillog. chronopotentiometry such as low sensitivity and poor linear relationship. A new circuit with feeding back current for obtaining reciprocal oscillogram has been designed. The main advantages of the circuit are its higher sensitivity and better linear relationship. In the experiment, the authors apply a new method to determine peak potential of some organic substances. If the authors connect the anodic stripping circuit with the reciprocal oscillog. chronopotentiometric instrument, min. detectable amount of metal ion can be down to  $10^{-9}$  mol/L. Experimental results also show there is a better linear relationship between peak height and concentration of depolarizer in solution of  $10^{-8}$  mol/L.

**Key words** [DRUGS ANALYSIS](#) [PYRIDINE P](#) [TRACE ANALYSIS](#) [OXIME](#)

DOI:

通讯作者

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF\(0KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [参考文献](#)

服务与反馈

▶ [把本文推荐给朋友](#)

▶ [加入我的书架](#)

▶ [加入引用管理器](#)

▶ [复制索引](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

相关信息

▶ [本刊中 包含“药物分析”的  
相关文章](#)

▶ 本文作者相关文章

- [朱俊杰](#)
- [郑建斌](#)
- [沈岚](#)
- [高鸿](#)
- [卜海之](#)