

张婧

王炳娟

邹洪

摘要：采用气相色谱法分析圆珠笔油墨中的易挥发成分，并对国内外厂家生产的109种品牌红、蓝、黑三种颜色的圆珠笔进行分类鉴别，用间甲苯酚作为内标物，结晶紫和铜酞箐作为内参比物，绘制字迹形成时间曲线，建立鉴定圆珠笔油墨字迹形成时间的方法，鉴定结果可为比对圆珠笔油墨种类和检验圆珠笔油墨字迹形成时间提供科学依据。

关键词：

文章全文为PDF格式，请下载至本机浏览。[[下载全文](#)]

如您没有PDF阅读器，请先下载PDF阅读器 [Acrobat Reader](#) [[下载阅读器](#)]

[Study of identifying the categories and the writing age of ballpoint pen ink by GC](#)

Abstract: This paper introduces a technique that identify the volatile components and writing age of 109 kinds of blue, black and red ball-point pen inks that come from different manufactures and different batch numbers in many countries by gas chromatography. M-cresol is internal standard and the dye in ink, crystal violet and copper phthalocyanine are internal reference substance. A writing age curve of has been established. The results can be provided by this method in the field of forensic science.

Key words:

[【大 中 小】](#) [[关闭窗口](#)]