

| | Sign in |
|------------------------------------|------------------------------------|
| 🕘 🔗 🔶 Analytical | Sciences |
| The Japan Society for A | nalytical Chemistry |
| Available Issues Japanese | >> Publisher Site |
| Author: ADVANCED | Volume Page |
| Keyword: Search | Go |
| Add to Favorite/Citation Alerts | Add to Favorite Publications |

<u>TOP</u> > <u>Available Issues</u> > <u>Table of Contents</u> > Abstract

ONLINE ISSN : 1348-2246 PRINT ISSN : 0910-6340

Analytical Sciences Vol. 26 (2010), No. 8 p.921

[PDF (480K)] [References]

A Fast Way to Make a Monolithic Column for a High Pressure Electroosmotic Pump

Rong WANG¹), Feifang ZHANG¹), Bingcheng YANG¹) and Xinmiao LIANG²)

1) East China University of Science and Technology

2) Dalian Institute of Chemical Physics, The Chinese Academy of Sciences

(Received March 14, 2010) (Accepted May 25, 2010)

A simple way was proposed to make a monolithic column for a high pressure electroosmotic pump (EOP). It is *in-situ* synthesized inside the silica capillary from potassium silicate solution and no frit is required. Compared with common approaches to make columns for EOP, the present method is robust and fast (<4 h). For pure water, a stand-alone EOP operated at 15 kV applied voltage is capable of generating a flow rate of $3.1 \,\mu$ L/min and a maximum static pressure of ~5.4 MPa.

[PDF (480K)] [References]

Download Meta of Article[Help] <u>RIS</u> <u>BibTeX</u>

To cite this article:

Rong WANG, Feifang ZHANG, Bingcheng YANG and Xinmiao LIANG, *Anal. Sci.*, Vol. 26, p.921, (2010).

doi:10.2116/analsci.26.921 JOI JST.JSTAGE/analsci/26.921 Copyright (c) 2010 by The Japan Society for Analytical Chemistry

