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Authors: Jinling Pang, Dongxing Yuan, Xiaojia Huang

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***On-line* combining monolith-based *in-tube* solid phase microextraction and high-performance liquid chromatography-fluorescence detection for the sensitive monitoring of polycyclic aromatic hydrocarbons in complex samples**

Jinling Pang, Dongxing Yuan, Xiaojia Huang*

State Key Laboratory of Marine Environmental Science, Key Laboratory of the Ministry of Education for Coastal and Wetland Ecosystem, College of the Environment and Ecology, Xiamen University.

*Corresponding author. Tel: 086-0592-2189278; Fax: 086-0592-2183137

E-mail: hxj@xmu.edu.cn

Corresponding Address: P. O. Box 1009, Xiamen University, Xiamen 361005, China

HIGHLIGHTS

- A new monolith-based microextraction column was synthesized.
- The microextraction column displayed satisfactory extraction performance for PAHs.
- IT-SPME was *on-line* coupled with HPLC-FLD for the analysis of PAHs.
- Method for the monitoring of PAHs in water and milk samples was developed.

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