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Title: Liquid membrane/polyaniline film coated glassy carbon sensor for highly sensitive and selective determination of fluvoxamine in pharmaceutical and biological samples

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Biographies

Ahmad Soleymanpour obtained his MSc (1998) and PhD (2002) in Analytical Chemistry from Shiraz University, Iran. His PhD thesis was about the design and construction of several cation and anion sensors. He is an Associate Professor in School of Chemistry, Damghan University, Iran. His research interests are in the field of developing new sensors for cations, anions and drugs and also solid phase microextraction techniques.

Seyyed Ahmad Rezvani obtained his MSc degree in Analytical Chemistry from Mashhad University, Iran, in 2011. He also received his Ph.D. degree in Analytical Chemistry from Damghan University, Iran in 2016. His research interest is developing of new chemical sensors for cations, anions, drugs and also solid phase microextraction.

Research Highlights

- The sensor is the first reported potentiometric sensor for fluvoxamine.
- The sensor has wide linear range and low detection limit (7.8×10^{-8} M).
- The proposed sensor is highly selective towards fluvoxamine.
- The sensor can determine fluvoxamine in pharmaceutical and biological media.

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