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Application of a novel poly(SMAm)-Tris-Fe₃O₄ nanocomposite for selective extraction and enrichment of Cu(I) /Cu(II) from beer, soft drinks and wine samples, and speciation analysis by micro-volume UV-Vis spectrophotometry

By: [Zengin, HB](#) (Zengin, H. B.)¹; [Gurkan, R](#) (Gurkan, R.)¹
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pre-treated and diluted beverage samples before and after pre-oxidation of Cu(I) to Cu(II) due to be more sensitive of extraction process to Cu(II) at pH 6.0. The results were also compared with those obtained by FAAS analysis to ensure the reliability of the results. It was observed that there was a statistically good agreement between the results of both methods.

Keywords

Author Keywords: Copper speciation; Nanocomposite; Poly(SMAm) copolymer; Tris; UA-CPE; Micro-volume UV-vis spectrophotometry

Keywords Plus: SOLID-PHASE EXTRACTION; CLOUD-POINT-EXTRACTION; TRACE AMOUNTS; METAL-IONS; COPPER II ; PRECONCENTRATION; WATER; LEAD; STABILIZATION; SPECTROMETRY

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d and selectively used in pH-controlled sample matrices where extraction is ic composite material functionalized ized in detail by ATR-FT-IR, H-1 NMR, encing extraction efficiency such as at fixed concentrations including 47 nm by micro-volume UV-vis 150 µg L⁻¹ for Cu(II) and Cu(I) with inalyte, were obtained from a pre-n of Cu(I), Cu(II), and total Cu in the

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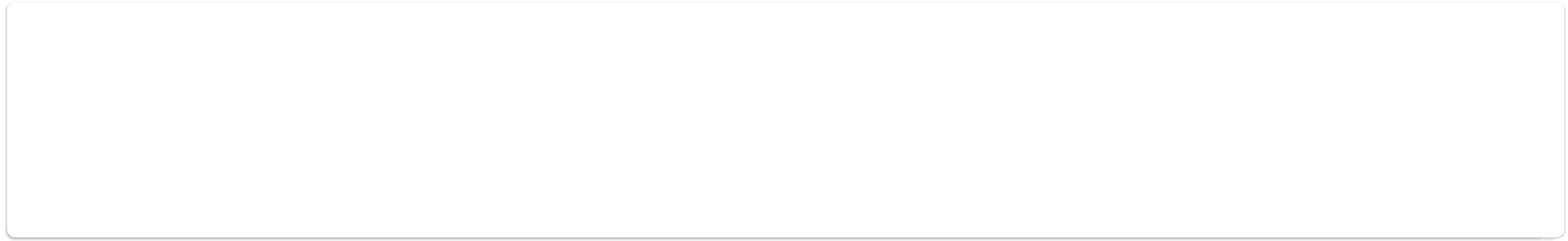
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