Poster MS22

Molecular Imprinting & Supercritical Fluid Technologies. A Powerful Combination for Imaging, Separation and Drug Delivery

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This presentation will show the potentiality of combining molecular imprinting and supercritical fluid technologies. The development of polymeric matrixes with affinity to certain templates/target molecules using supercritical CO_2 has a wide range of potential applications, with many advantages compared to conventional processes, not just in terms of the final polymer characteristics but also in terms of the greenness and complexity of the process. Several examples will be highlighted such as pharmaceutical purification, drug delivery, development of fluorescent sensors, extraction of high-value compounds from natural matrixes and separation of contaminants from diesel and aqueous environmental samples.

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