MOLECULARLY IMPRINTED MATERIALS FOR ENVIRONMENTAL APPLICATIONS

SHORT DESCRIPTION
The present work is focused on the advancement and optimization of the Molecular Imprinting Technology (MIT) in order to produce functional materials with well-defined morphologies with respect to pore structure and selectivity for environmental applications. The scientific work aims at the optimal design and manufacture of molecularly imprinted materials (MIMs) to be applied in the fabrication of efficient and cost effective materials for selective removal of synthetic organic compounds from water samples, at very low concentrations (i.e., down to 1 ppb).

APPLICATION FIELD
• Analysis and Environmental Monitoring
• Selective Recognition and Separation of Organic Pollutants
• Sensor Technology

Target Compounds

MIP Synthesis by Microemulsion Polymerization

MIP Synthesis by Precipitation Polymerization

MIP Synthesis by Suspension Polymerization and Application as Packing Material in HPLC

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