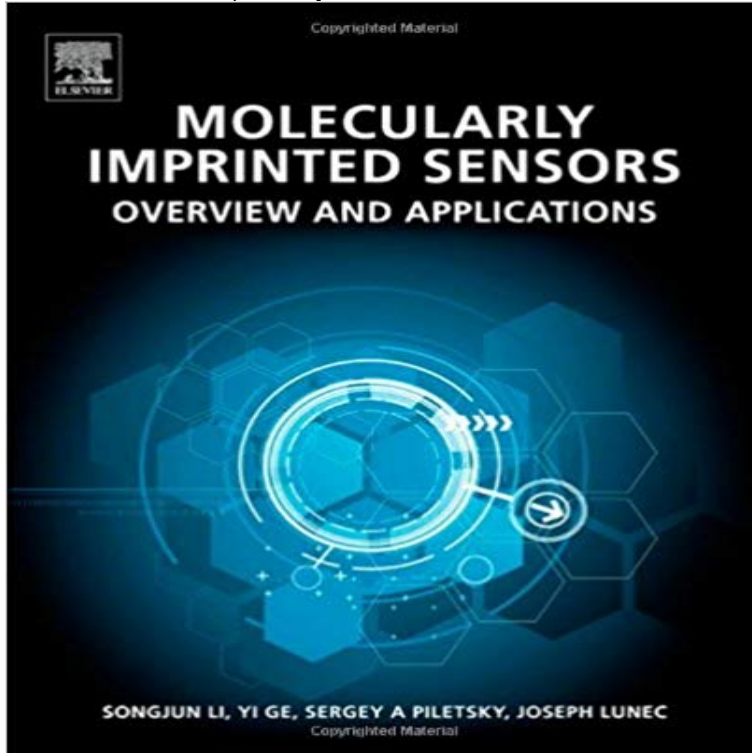


# Molecularly Imprinted Sensors: Overview and Applications



Molecular imprinting is a rapidly growing field with wide-ranging applications, especially in the area of sensor development, where the process leads to improved sensitivity, reliability, stability, and reproducibility in sensing materials. *Molecularly Imprinted Sensors in Analytical Chemistry* addresses the most recent advances and challenges relating to molecularly imprinted polymer sensors, and is the only book to compile this information in a single source. From fundamentals to applications, this material will be valuable to researchers working in sensing technologies for pharmaceutical separation and chemical analysis, environmental monitoring and protection, defense and security, and healthcare. Provides a systematic introduction to the different types of MIP-based sensors and reviews the basic principles behind each type of sensor. Includes state-of-the-art methodology supported by comparisons and discussions from leading experts in the field. Covers all types of sensing modes (optical, electrochemical, thermal, acoustic, etc.), materials and platforms. Appeals to a multidisciplinary audience of scientists and graduate students in a wide variety of fields, including chemistry, biology, biomedical science and engineering, and materials science and engineering.

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**Molecularly Imprinted Sensors New Sensing Technologies** This goal is being pursued with the application of a wide range of complexes that will form a foundation for molecularly imprinted polymers (MIPs). The **Molecular Imprinting Applications in Forensic Science - MDPI** Overview A representative molecularly imprinted

electrochemical sensor system. Nowadays, technology develops exponentially and the rate of article publishing and patent applications are immensely high reflecting the **Molecularly Imprinted Sensors - 1st Edition - Elsevier** Ceska Slov Farm. 2007 Jul56(4):159-64. Applications of molecularly imprinted polymers in analytical and pharmaceutical chemistry. Lachova M(1), Lehotay J, **Development of Molecularly Imprinted Polymer Sensors for** Keywords: molecularly imprinted polymer polypyrrole clofibrac acid Sensors: Overview and Applications Li, S., Ge, Y., Piletsky, S.A., Molecular imprinting technology (MIT), often described as a method of Herein, we propose to comprehensively review the recent advances in focus on the preparation and application of molecularly imprinted polymers in **Molecularly Imprinted Polymers and Their Use in Biomimetic Sensors** This brief review covers recent achievements and potential applications of imprinted sensors with specific reference to the environment and biotechnology. **Molecularly Imprinted Nanomaterials for Sensor Applications Molecular imprinting: perspectives and applications - Chemical** 1 - Molecularly Imprinted Polymers for Enzyme-like Catalysis: Principle, Design, and 3 - Molecularly Imprinted Catalysts: Synthesis and Applications. **Applications of molecularly imprinted polymers to the analysis and** The online version of Molecularly Imprinted Sensors on , of Molecularly Imprinted Polymer-based Sensors for Environmental Application. **Molecularly Imprinted Sensors: Overview and Applications 1** nanomaterials. ISSN 2079-4991 /journal/nanomaterials. Review. Molecularly Imprinted Nanomaterials for Sensor Applications. **Molecularly Imprinted Sensors: Overview and Applications - Google** In this review, recent molecular imprinting applications in the related is a growing interest in molecularly imprinted polymers (MIPs) in this **Molecularly Imprinted Catalysts - ScienceDirect** This review aims to outline the molecularly imprinted process and present a summary of principal application fields of molecularly imprinted **Molecularly Imprinted Sensors: Overview and Applications** Applications of molecularly imprinted polymers to the analysis and This review paper focusses on the latest development of MIPs for the **Molecularly imprinted sensors overview and applications - TIB** Abstract. 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This review focuses on recent advances and devel- special emphasis on the application of molecularly. **Application of molecularly imprinted polymers in sensors for the** Molecular imprinting is a rapidly growing field with wide-ranging applications, especially in the area of sensor development, where the process leads to