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Recent Advancements in Fluorescence Chemosensors for Environmental Application



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Editors Book Series ID:
IIPER1681484586



Iterative International Publishers
Novi, Michigan, USA
Chikkamagaluru, Karnataka, India

Imprint IIP

Registered publisher under Raja Rammohun Roy Agency,
Government of India and also under Bowker My identifiers
agency, USA

Important dates:

Chapter/paper submission starts on: 01-12-2023
Last date for chapter/paper submission: 15-01-2024
Acceptance notification: 30-01-2024
Last date for registration: 10-02-2024

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Call for Chapters

Recent Advancements in Fluorescence Chemosensors for Environmental Application

Aims and Scope:

The edited book “Recent Advancements in Fluorescence Chemosensors for Environmental Application” aims to provide a comprehensive and up to date exploration of fluorescence based chemosensors for environmental application. Various organic molecules, nanocrystalline material such as nanoparticle, semiconductor quantum dots, carbon-based nanomaterials having good fluorescence behaviour can be used as chemosensors. This book aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on fluorescence spectroscopy which is used as effective tool in sensing of various ions, analytes, molecules present which have adverse effect to the environment. It will also provide a premier interdisciplinary platform for researchers, educators to publish the most recent trends in research in the field of fluorescence spectroscopy, nanomaterials, environmental chemistry etc., The focus of the book would be on advances in dye and nanomaterial based chemosensors, and their synthesis, characterization of nano based chemosensors, mechanism of detections and their diverse environmental application. This book will also provide a remarkable opportunity for the academic, research and industrial communities to address new challenges and share solutions and discuss future research directions in the below field but not limited to :

- Organic dyes as chemosensors- Design, synthesis, and application.
- Nanomaterial based chemosensors- synthesis, characterization, optical properties, application.
- Sensing of cations, anions, neutral small molecules, biomolecules, toxic gas etc
- Aggregation induced emission (AIE) based chemosensors
- Transition metal and lanthanides complexes as chemosensors
- Metal organic framework (MOF) as chemosensors: synthesis, characterization, optical properties, application
- Computational chemistry
- Analytical chemistry
- Environmental chemistry
- Biological applications
- Food science and technology
- Agricultural application
- Clinical application
- Any other relevant topics

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