Buku Baharu/ New Books

November 2025

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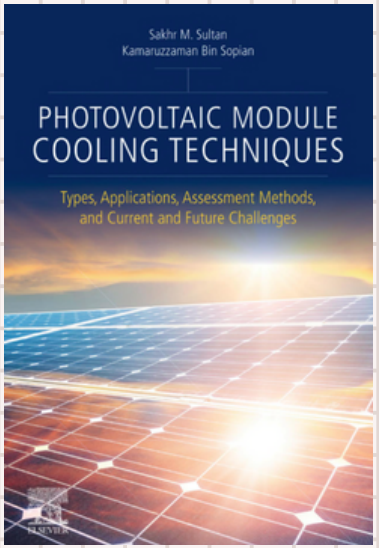

Title : **Photovoltaic module cooling techniques : types, applications, assessment methods, and current and future challenges**
Author : **Sakhr M. Sultan, Kamaruzzaman Bin Sopian**
ISBN : **9780443339370**
Publisher : **Elsevier**
Year : **2025**
Call Number : **TK8322 .S8354 3**

Abstract

Photovoltaic Module Cooling Techniques: Types, Applications, Assessment Methods, and Current and Future Challenges offers an up-to-date, central resource covering the latest photovoltaic module cooling techniques and their application, performance assessment methods, and the current and future challenges. The book begins by introducing photovoltaic technology before reviewing existing types and applications of PV cooling techniques and their effects on performance. This book is of interest to all those working on photovoltaics performance, efficiency, and development, including researchers, advanced students, faculty, engineers, R&D, manufacturers, designers, and policymakers.

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More Info :
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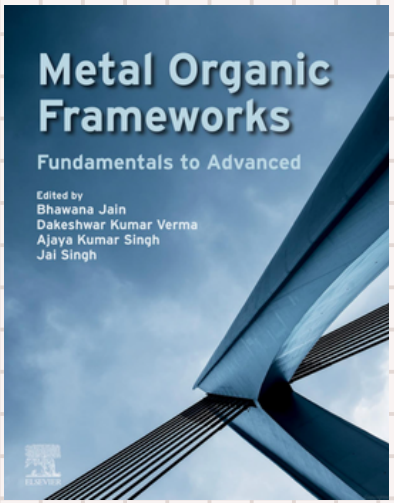

Title : **Metal organic frameworks : fundamentals to advanced**
Editor : **Bhawana Jain, Dakeshwar Kumar Verma, Ajaya Kumar Singh, Jai Singh**
ISBN : **9780443152597**
Publisher : **Elsevier**
Year : **2024**
Call Number : **QD411. M483 3**

Abstract

Metal Organic Frameworks: Fundamentals to Advanced offers a substantial and complete treatment of published results. The book includes a summary of current research, along with an in- depth explanation of Metal organic frameworks (MOFs) and applications in this versatile area. Metal organic frameworks (MOFs) are structured frameworks made up of metal ions and organic molecules. These materials are similar to sponges and can absorb, retain and remove molecules from their pores. As a result, metal-organic frameworks (MOFs) are the most rapidly evolving substances in chemistry with the highest surface areas due to their well-ordered pore structure.The exciting and vast surface area allows for more chemical reactions and molecule adsorption, hence this new resource provides the newest updates on the topics covered.

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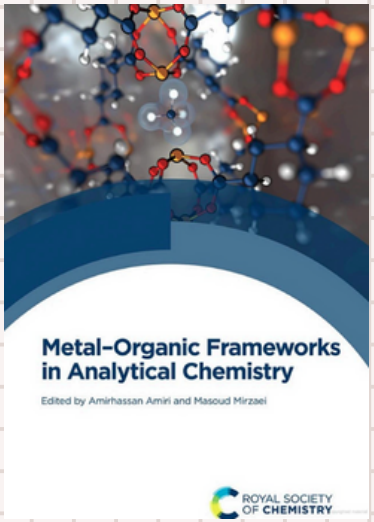

Title : **Metal-organic frameworks in analytical chemistry**
Editor : **Amirhassan Amiri, Masoud Mirzaei**
ISBN : **9781839166907**
Publisher : **Royal Society of Chemistry**
Year : **2023**
Call Number : **QD71.2.M483 3**

Abstract

One of the current research lines in analytical chemistry is the design and utilization of novel materials with higher selectivity and improved analytical performance in various steps of chemical analysis. In this sense, Metal–Organic Frameworks (MOFs) have attracted attention as a potential alternative to current commercially available materials. MOFs present an interesting set of properties, such as diverse structural topologies, modifiable pore size, high porosity, tuneable surface area, diverse composition, and versatile functionality.

This book covers multipurpose usage MOFs in sample preparation, integration, and detection stages of analytical chemistry. Along with the application of MOFs in green analytical methodologies. It will serve as a reference book for researchers, scientists and engineers who are interested in developing new materials as well as researchers who are interested in new application development.

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