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# Advanced Materials for Membrane Preparation

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## About the eBook

This eBook gives readers an overview of the state-of-the-art materials science of synthetic membranes. Membranes for natural gas treatment, separation of organics, fuel cells, high and low temperature catalytic membrane reactors are some of the subjects covered by this volume.

### Contents

- ▶ Oxygen Production Using Perovskite Hollow Fibre Membrane Modules
- ▶ New Membranes for Hydrogen and Syngas Production
- ▶ New Concepts in Molecular Sieve Membrane Preparation - What can we learn from Zeolite Membrane Preparation for MOF Membrane Synthesis?
- ▶ Review: Nanofluidic and Gas Transport in Carbon Nanotube Membranes
- ▶ Recent Progress and Challenges on Mixed Matrix Membranes in Both Material and Configuration Aspects for Gas Separation
- ▶ Mixed Matrix Membranes Based on Metal Organic Frameworks
- ▶ Preparation and Characterization of Polymeric Membranes for Fuel Cells

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