

Special Issue Reprint

Mesoporous Metal Oxide Films

www.mdpi.com/books/reprint/2724

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ISBN 978-3-03936-884-6 (Hardback)
ISBN 978-3-03936-885-3 (PDF)



This book, entitled “Mesoporous Metal Oxide Films”, contains an editorial and a collection of ten research articles covering fundamental studies and applications of different metal oxide films. Mesoporous materials have been widely investigated and applied in many technological applications owing to their outstanding structural and physical properties. In this book, important developments in this fast-moving field are presented from various research groups around the world. Different preparation methods and applications of these novel and interesting materials have been reported, and it was demonstrated that mesoporosity has a direct impact on the properties and potential applications of such materials. The potential use of mesoporous metal oxide films and coatings with different morphology and structures is demonstrated in many technological applications, particularly chemical and electrochemical sensors, supercapacitors, solar cells, photoelectrodes, bioceramics, photonic switches, and anticorrosion agents.

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