



# **Chromium Doped TiO<sub>2</sub> Sputtered Thin Films: Synthesis, Physical Investigations and Applications (SpringerBriefs in Applied Sciences and Technology)**

*Anouar Hajjaji, Mosbah Amlouk, Mounir Gaidi, Brahim Bessais, My Ali El Khakani*

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This book presents co-sputtered processes ways to produce chrome doped TiO<sub>2</sub> thin films onto various substrates such as quartz, silicon and porous silicon. Emphasis is given on the link between the experimental preparation and physical characterization in terms of Cr content. Moreover, the structural, optical and optoelectronic investigations are emphasized throughout. The book explores the potencial applications of devices based on Cr doped TiO<sub>2</sub> thin films as gas sensors and in photocatalysis and in the photovoltaic industry. Also, this book provides extensive leads into research literature, and each chapter contains details which aim to develop awareness of the subject and the methods used. The content presented here will be useful for graduate students as well as researchers in materials science, physics, chemistry and engineering.

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