



TiO₂ Nanotube Arrays: Synthesis, Properties, and Applications

Craig A. Grimes, Gopal K. Mor

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TiO₂ Nanotube Arrays: Synthesis, Properties, and Applications is the first book to provide an overview of this rapidly growing field. Vertically oriented, highly ordered TiO₂ nanotube arrays are unique and easily fabricated materials with an architecture that demonstrates remarkable charge transfer as well as photocatalytic properties. This volume includes an introduction to TiO₂ nanotube arrays, as well as a description of the material properties and distillation of the current research. Applications considered include gas sensing, heterojunction solar cells, water photoelectrolysis, photocatalytic CO₂ reduction, as well as several biomedical applications.

Written by leading researchers in the field, *TiO₂ Nanotube Arrays: Synthesis, Properties, and Applications* is a valuable reference for chemists, materials scientists and engineers involved with renewable energy sources, biomedical engineering, and catalysis, to cite but a few examples.

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