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modulation of the optical properties are conceivable among materials such as some metal nitrides, and there are materials that show electrochromism yet their main application may be as counterelectrodes in metal-oxide-based electrochromic devices ...

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Description. Electrochromic materials are able to change their optical properties in a persistent and reversible way under the action of a voltage pulse. This book explores electrochromism among the metal oxides, with detailed discussions of materials preparation



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(primarily by thin film technology), materials characterization by (electro)chemical and physical techniques, optical properties, electrochromic device design, and device performance.

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properties, electrochromic device  
design, and device ...

## **Handbook of Inorganic Electrochromic Materials**

Handbook of inorganic electrochromic materials. By Claes-Göran Granqvist, Elsevier, Amsterdam 1995, XVI, 633 pp., hardcover, \$147.00, ISBN 0-444-89930-8

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Concepts 1 1.2 Survey of Electrochromic

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Oxide Films 5 1.3 Applications Areas for  
Electrochromic Devices 9 1.4 Some  
Notes on the History of Electrochromism  
13 PART ONE: CASE STUDY ON  
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Charles W. Hills Literature Seminar  
February 19, 1998 Electrochromic materials have garnered much attention for their optical properties. 1,2,3,4 By definition, these materials change color upon electrochemical activation. This fact makes

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Electrochromic materials, also known as chromophores, affect the optical color or opacity of a surface when a voltage is applied. Among the metal oxides, tungsten oxide ( $WO_3$ ) is the most extensively studied and well-known electrochromic material. ... Handbook of Inorganic Electrochromic Materials.

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## **Electrochromism - Wikipedia**

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version: Granqvist, Claes G. Handbook of  
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Amsterdam ; New York : Elsevier, 1995

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among the metal oxides, with detailed discussions of materials preparation (primarily by thin film technology), materials characterization by (electro)chemical and physical techniques, optical properties, electrochromic device design, and device performance. The vast quantity of information presented is structured in

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a systematic manner and the optical data is interpreted within a novel conceptual framework.

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cycling, good thermal and chemical stability, and...

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The adopted electrochromic system is based on thin film layers of tungsten trioxide ( $\text{WO}_3$ ) as electrochromic material (EC), vanadium pentoxide ( $\text{V}_2\text{O}_5$ )

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O 5) as counter electrode (CE), lithium aluminum fluoride ( $\text{LiAlF}_4$ ) as ion conductor and two layers of indium tin oxide as transparent conductors (ITO1 and ITO2).

## **Photometric characterization of an all solid state ...**

Electrochromic materials, both organic

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and inorganic, have widespread applications in light-attenuation, displays and analysis. Written in an accessible manner, this book provides a comprehensive treatment of all types of electrochromic systems and their many applications.

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