

# Oxide Semiconductors (Science Of Solid State Monographs)

By Zdzisław Jarzicki



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Semiconductor Materials inorganic semiconductors and their solid branches of materials science; Explains principles of semiconductor device

<http://www.crcpress.com/Semiconductor-Materials/Berger/9780849389122>

### **Copper(I) Oxide Semiconductors - Materials Science -**

Aug 02, 2015 It is a principal oxide of copper. It is a red colored solid, Materials Science; Materials Testing; Oxide Semiconductors. Topics Covered.

<http://www.azom.com/article.aspx?ArticleID=8423>

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Oxide semiconductors, including titanium dioxide (TiO<sub>2</sub>), are increasingly being considered as replacements for silicon in the development of the next generation of

<http://www.amazon.com/Oxide-Semiconductors-Solar-Energy-Conversion/dp/1439848394>

### **CEEM | U.S. DOE Office of Science (SC) -**

organic/oxide, organic/organic, organic/metal, metal/semiconductor, metal/oxide, semiconductor/semiconductor, solid/solid The Office of Science

<http://science.energy.gov/bes/efrc/centers/ceem/>

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### **List of semiconductor materials - Wikipedia, the -**

Semiconductor materials are an important field of study in materials science. Most commonly used semiconductor materials are semiconductor. Oxide: 2:

[http://en.wikipedia.org/wiki/List\\_of\\_semiconductor\\_materials](http://en.wikipedia.org/wiki/List_of_semiconductor_materials)

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### **ECS Journal of Solid State Science and Technology -**

Electrochemical Society Effects of Diffusion of Hydrogen and Oxygen on Electrical Properties of Amorphous Oxide Semiconductor, Solid State Science

<http://jss.ecsdl.org/content/2/1/P5.full.pdf>

### **Thin, Fast, and Flexible Semiconductors - IEEE -**

Apr 27, 2011 Amorphous oxide semiconductors promise to In a polycrystalline solid, Wager is a professor of electrical engineering and computer science there and

<http://spectrum.ieee.org/semiconductors/materials/thin-fast-and-flexible-semiconductors>

### **Materials Science and Engineering/Diagrams/ -**

Materials Science and Engineering/Diagrams/Semiconductor Devices. Assume there is equilibrium at the gas-solid The metal oxide semiconductor field

[https://en.wikiversity.org/wiki/Materials\\_Science\\_and\\_Engineering/Diagrams/Semiconductor\\_Devices](https://en.wikiversity.org/wiki/Materials_Science_and_Engineering/Diagrams/Semiconductor_Devices)

### **Ferromagnetism in Oxide Semiconductors . | EMSL -**

Home Publications Ferromagnetism in Oxide Semiconductors . and understanding of such materials is proving to be a grand challenge in solid-state science.

<https://www.emsl.pnl.gov/emslweb/publications/ferromagnetism-oxide-semiconductors>

### **Complementary Metal Oxide Semiconductor Technology -**

Complementary Metal Oxide Semiconductor Technology With and On Paper. Thin Solid Films, Semiconductor Science and Technology,

<http://onlinelibrary.wiley.com/doi/10.1002/adma.201102232/abstract>

### **Metal oxide semiconductor | Article about metal -**

Today complementary metal oxide semiconductor (CMOS) chips are the foundation for computing applications; silicon germanium (SiGe) bipolar chips provide radio

<http://encyclopedia2.thefreedictionary.com/metal+oxide+semiconductor>

### **p-type oxide semiconductors as hole collectors in -**

p-type oxide semiconductors as hole collectors in dye-sensitized solid-state solar cells

[http://iopscience.iop.org/0268-1242/22/2/004?v\\_morerelated\\_ref=yes](http://iopscience.iop.org/0268-1242/22/2/004?v_morerelated_ref=yes)

### **Interfacial and electrical properties of InGaAs -**

InGaAs metal-oxide-semiconductor Science & Technology of [Manufacture or treatment of devices consisting of a plurality of solid state components or

<http://scitation.aip.org/content/aip/journal/apl/106/12/10.1063/1.4916539?TRACK=RSS>

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### **Selective photo-oxidation of light alkanes using -**

Activities of n-type solid metal oxide semiconductors for aerobic photo-oxidation of simple C 1-C 3 alkanes were examined at temperatures from ambient to ca. 550 K.

<http://www.sciencedirect.com/science/article/pii/S0926860X9385037P>

### **Oxide Semiconductor Thin-Film Transistors: A -**

of complementary metal oxide semiconductor processes for oxide thin film transistors, Semiconductor Science Science in Semiconductor

<http://onlinelibrary.wiley.com/doi/10.1002/adma.201103228/abstract>

### **Physical Structure and Inversion Charge at a -**

We show that the physical and electrical structure and hence the inversion charge for crystalline oxides on semiconductors can be understood and systematically

<http://www.sciencemag.org/content/293/5529/468.short>

### **Overview of electroceramic materials for oxide -**

oxide-based semiconductor materials, Advances in Solid State Circuit Overview of electroceramic materials for oxide semiconductor thin film

<http://link.springer.com/article/10.1007/s10832-013-9858-0>

### **Metal oxide adhesion - Wikipedia, the free -**

Metal oxide adhesion is important for applications like complementary metal oxide semiconductor devices.  $x$  is the thickness of the oxide layer. Solid surface

[http://en.wikipedia.org/wiki/Metal\\_oxide\\_adhesion](http://en.wikipedia.org/wiki/Metal_oxide_adhesion)

### **Oxide Semiconductor - Academia.edu -**

Materials Science, Oxide Semiconductor, Oxide Thin Film Transistor, Solid State Chemistry, Oxide Semiconductor, Oxide Thin Film Transistor,

[http://www.academia.edu/People/Oxide\\_Semiconductor](http://www.academia.edu/People/Oxide_Semiconductor)

### **Solid-State Solar-Thermal Energy - Office of -**

To advance fundamental science and to organic semiconductor, metal, oxide metal/semiconductor, metal/oxide, semiconductor/semiconductor, gas/solid,

<http://science.energy.gov/bes/efrc/centers/s3tec/>

### **Academia.edu | Documents in Semiconductor Oxides - -**

Oxide Semiconductor. 10. Solid State Chemistry. 526 conversion requires achieving semiconducting properties akin to those of conventional semiconductors like

[http://www.academia.edu/Documents/in/Semiconductor\\_Oxides](http://www.academia.edu/Documents/in/Semiconductor_Oxides)

### **Materials science perspectives for oxide -**

The prospects for the development of the materials science of oxide semiconductors maintaining Solid State Commun., 2003, vol Materials science perspectives

<http://link.springer.com/article/10.1134/S0020168510130030>

### **Symposium M - Oxide Semiconductors Defects, -**

Symposium M: Oxide Semiconductors-Defects, Institute of solid state physics, Oxide Semiconductor Thin Film Transistor Material and Device Understanding.

<http://www.mrs.org/f11-program-m/>

### **Phys.org - complementary metal oxide semiconductor -**

Space Science, Earth Science, Transformational research combines solid-state and biological components. Complementary metal oxide semiconductor

<http://phys.org/tags/complementary%20metal%20oxide%20semiconductor/>

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### **Vapor Detection Via Tin Oxide Solid State -**

Using solid state sensors with tin oxide semiconducting material is common method of vapor detection in process, environmental, and safety applications. Solid state

<https://nice.asu.edu/nano/vapor-detection-tin-oxide-solid-state-semiconductors>

### **Frontier of transparent oxide semiconductors -**

Deep-UV transparent conductive oxide; Reactive solid-phase Thin-film transistor fabricated in single-crystalline transparent oxide semiconductor. Science, 300

<http://www.sciencedirect.com/science/article/pii/S0038110103002089>

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### **Oxide semiconductors - Abstract - Semiconductor -**

The guest editors would like to thank the publishing team of Semiconductor Science and section of the development of oxide semiconductors and

<http://iopscience.iop.org/0268-1242/20/4/E01>

### **Semiconductor Properties of Iron Oxide Electrodes -**

The semiconductor electrode properties of thermally grown iron oxide and anodic oxide films on iron are compared. 3 Cathode with Li<sub>2</sub>S-P<sub>2</sub>S<sub>5</sub> Solid Electrolyte

<http://jes.ecsdl.org/content/126/3/419.abstract>