

# **Transport In Metal-Oxide-Semiconductor Structures: Mobile Ions Effects On The Oxide Properties (Engineering Materials) By Hamid Bentarzi**

**By Hamid Bentarzi**

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## **Experimental study on subband structures and hole -**

Experimental study on subband structures and hole transport in (110) Si -type metal-oxide-semiconductor field-effect transistors under high magnetic field

<http://scitation.aip.org/content/aip/journal/jap/109/3/10.1063/1.3543990>

**Spatially Resolved Transport Studies and -**

The objective of the contract was the investigation of hot electron transport on a microscopic scale in metal oxide semiconductor (MOS) structures in order to assess

<http://oai.dtic.mil/oai/oai?verb=getRecord&metadataPrefix=html&identifier=ADA329531>

**Theoretical Approaches of Mobile Ions Density -**

Theoretical Approaches of Mobile Ions oxide of the metal oxide-semiconductor structures Structures Book Subtitle Mobile Ions Effects on

[http://link.springer.com/chapter/10.1007/978-3-642-16304-3\\_6](http://link.springer.com/chapter/10.1007/978-3-642-16304-3_6)

**www.mse.ncsu.edu -**

Title Journal Year; Improving both strength and ductility of a Mg alloy through a large number of ECAP passes: Materials Science & Engineering. A, Structural

<http://www.mse.ncsu.edu/research/publications//page-50>

**Symposium S: Nanostructured Metal Oxides for -**

Symposium S: Nanostructured Metal Oxides for Advanced Applications is a technical symposium from the 2013 MRS Spring Meeting in San Francisco, California. The focus

<http://www.mrs.org/s13-program-s/>

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Engineering Library; Kellogg Kroc Library; New Books . CHEMISTRY PHYSICS LIBRARY July 19, 2011: ASTRONOMY: BIOLOGY: BOTANY: CHEMICAL TECHNOLOGY: CHEMISTRY

<http://library.nd.edu/chemistry/about/recentacquisitions11/July12.shtml>

**First-principles Study of Electron Transport -**

First-principles Study of Electron Transport through Atomistic Metal-Oxide-Semiconductor Structures Xiaodong Zhang\*, Leonardo Fonseca\*\* and Alexander A. Demkov\*

<http://www.nsti.org/publications/MSM/2002/pdf/322.pdf>

**Mesoscopic transport in Si metal- oxide- -**

Title: Mesoscopic transport in Si metal-oxide-semiconductor field-effect transistors with a dual-gate structure: Authors: Matsuoka, Hideyuki; Ichiguchi, Tsuneo

<http://adsabs.harvard.edu/abs/1994JAP....76.5561M>

### **Materials | Free Full-Text | Zinc Oxide From -**

and are thus promising candidates as high-performance engineering materials. and semiconductor properties of ZnO are coalescence of mobile metal

<http://www.mdpi.com/1996-1944/7/4/2833/htm>

### **Symposium GG: Microelectromechanical Systems-- -**

and macroscopic definitions and assumptions for transport properties may and Materials Engineering, sensor with Metal-Oxide-Semiconductor

<http://www.mrs.org/f08-abstract-gg/>

### **Oxide charges densities determination using -**

BTS in MOS Structures HAMID BENTARZI, of semiconductor devices and that mobile ions in of Mobile Ions in the Oxide of the Metal

[http://www.academia.edu/3284732/Oxide\\_charges\\_densities\\_determination\\_using\\_charge-pumping\\_technique\\_with\\_BTS\\_in\\_MOS\\_structures](http://www.academia.edu/3284732/Oxide_charges_densities_determination_using_charge-pumping_technique_with_BTS_in_MOS_structures)

### **Transport in Metal-oxide-semiconductor Structures -**

Transport in Metal-oxide-semiconductor Structures: Mobile Ions Effects on the Oxide Properties. Added by Hamid Bentarzi.

abebooks.fr; Publisher: Springer

[http://www.academia.edu/3284725/Transport\\_in\\_Metal-oxide-semiconductor\\_Structures\\_Mobile\\_Ions\\_Effects\\_on\\_the\\_Oxide\\_Properties](http://www.academia.edu/3284725/Transport_in_Metal-oxide-semiconductor_Structures_Mobile_Ions_Effects_on_the_Oxide_Properties)

### **Transport analysis of filamentary dielectric -**

Transport analysis of filamentary dielectric breakdown model for metal-oxide-semiconductor tunnel structures

[http://ieeexplore.ieee.org/xpl/freeabs\\_all.jsp?isnumber=15934&arnumber=742759&count=75&index=69](http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?isnumber=15934&arnumber=742759&count=75&index=69)

### **Transport in metal- oxide- semiconductor -**

Transport in metal-oxide-semiconductor structures : mobile ions effects on the oxide properties. [Hamid Bentarzi] in the MOS

Oxide. Series Title: Engineering

<http://www.worldcat.org/title/transport-in-metal-oxide-semiconductor-structures-mobile-ions-effects-on-the-oxide-properties/oclc/668191388>

### **MOSFET - Wikipedia, the free encyclopedia -**

3.1 Metal oxide semiconductor structure; 3.2 MOSFET structure and channel formation; carrier transport in the active mode may become limited by velocity

<http://en.wikipedia.org/wiki/Metal%E2%80%93oxide%E2%80%93semiconductor>

### **Charge transport and storage in ion implanted -**

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<http://www.sciencedirect.com/science/article/pii/0378596382901660>

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<http://www.mdpi.com/search?q=semiconductor%20metal%20oxide>

### **Research Books: Physics/Electromagnetism/ -**

Physics: Electromagnetism: Semiconductor Physics. Hamid Bentarzi (2011) Transport in Metal-Oxide-Semiconductor Structures: Mobile Ions Effects on the Oxide

<http://www.researchbooks.org/Books/Physics/Electromagnetism/Semiconductor-Physics/>

### **Effects of reaction time on the morphological, -**

researchers have focused on controlling nanostructures of metal oxide semiconductor materials because of its numerous structures and enriched properties.

<http://www.sciencedirect.com/science/article/pii/S1369800113003223>

**utcan.ut.ac.ir** -

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Applications Functional Metal Oxide

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