

semiconductor heterojunctions and nanostructures pdf

A semiconductor material has an electrical conductivity value falling between that of a metal, like copper, gold, etc. and an insulator, such as glass.

Semiconductor - Wikipedia

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PUBLICATIONS - Ho Ghim Wei Research Group

research. Strongly correlated electron materials and functional materials with reduced dimensions Research on correlated electron materials enriches our understanding of solid state physics and offers a route toward novel useful devices.

UCB :: MSE : Wu group :: Research

Nanowire arrays of SnS/SnS₂ heterojunctions are grown on transparent indium tin oxide (ITO) coated-glass and Si/SiO₂ substrates via chemical vapor transport (CVT).

materials science - Institute of Physics

Thermoelectric materials show the thermoelectric effect in a strong or convenient form. The thermoelectric effect refers to phenomena by which either a temperature difference creates an electric potential or an electric potential creates a temperature difference.

Thermoelectric materials - Wikipedia

In recent years, Dirac materials have been widely investigated because of their electronic symmetry protections and possible technology applications.

physica status solidi (RRL) – Rapid Research Letters

Molybdenum disulfide (MoS₂) thin-film transistors were fabricated with ion gel gate dielectrics. These thin-film transistors exhibited excellent band transport with a low threshold voltage (<1 V), high mobility (12.5 cm²/(V·s)) and a high on/off current ratio (10⁵).

Highly Flexible MoS₂ Thin-Film Transistors with Ion Gel

JNN is a multidisciplinary peer-reviewed journal covering fundamental and applied research in all disciplines of science, engineering and medicine.

Journal of Nanoscience and Nanotechnology (JNN)

Highly Sensitive Air-Stable Easily Processable Gas Sensors Based on Langmuir-Schaefer Monolayer Organic Field-Effect Transistors for Multiparametric H₂S and NH₃ Real-Time Detection

ACS Applied Materials & Interfaces (ACS Publications)

Better understanding the crystal-facet engineering of a crystal with tailored architecture has demonstrated a significant implication for rational design and synthesis of promising micro-/nanostructure.

Cuprous oxide (Cu₂O) crystals with tailored architectures

2018: Chairman The 10th Asian Conference on Organic Electronics (A-COE2018), City University of Hong Kong, Hong Kong, 5-8 December 2018. Organizing Committee Member & Theme 3 - Session Chairman

Staff Profile - City University of Hong Kong

a Flowchart for the low-temperature crystallization of amorphous TiO₂ nanotubular arrays by solid-gas reaction. In a Teflon-lined stainless autoclave, the as-anodized amorphous TiO₂ nanotubes fabricated by anodization reacted with water vapor to yield anatase phase.

Nano-Micro Letters

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Graphene-like two-dimensional (2D) transition metal dichalcogenides (TMDCs) have been attracting a wide range of research interests. Molybdenum disulfide (MoS₂) is one of the most typical TMDCs.

Two-dimensional MoS₂: Properties, preparation, and

The WCPEC brings together researchers, scientists, and technology leaders from industry, academia and government in an interactive environment conducive to strengthening collaborations and sharing knowledge across the field of photovoltaics.

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Dr. Thomas Maschmeyer, is Professor of Chemistry and serves as Founding Director of the Australian Institute for Nanoscale Science and Technology (AINST), of the Laboratory of Advanced Catalysis for Sustainability (School of Chemistry), and of the University of Sydney Energy Storage Research Network.

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