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Semiconductor Physics And Applications

Scientists have succeeded in combining two exciting material types together for the very first time: an ultrathin semiconductor just a single atom thick; and a superconductor, capable of conducting ...

~~For The First Time, Scientists Have Connected a Superconductor to a Semiconductor~~
For the first time, University of Basel researchers have equipped an ultrathin semiconductor with superconducting contacts. These extremely thin materials with novel electronic and optical properties ...

~~Ultrathin Semiconductors Equipped With Superconducting Contacts for the First Time~~
Crystalline semiconductors are the foundation of telecommunications, computing, and many other technologies employed in all aspects of contemporary life. Their physical characteristics are determined ...

Mooney Lab - Physics of Semiconductor Defects

Peter J. Price, Physics Today 'The reviewed book is one of those rare pleasant events. □ The book should be of interest to those dealing with the investigations and applications of low-dimensional ...

Electrons and Phonons in Semiconductor Multilayers

For the first time, University of Basel researchers have equipped an ultrathin semiconductor with superconducting contacts. These extremely thin materials with novel electronic and optical properties ...

Ultrathin semiconductors electrically connected to superconductors for the first time

With a view to future applications in electronics and quantum technology, researchers are focusing on the development of new components that consist of a single layer (monolayer) of a semiconducting ...

Semiconducting monolayer and superconductor brought together at last

For the first time, University of Basel researchers have equipped the 2D compound semiconductor MoS₂ with superconducting contacts. The researchers say that this combination coul ...

Swiss Team Adds Superconducting Contacts To 2D Semiconductors

The company hopes to become a world leader in the quantum computing and medtech sectors and has made significant progress over the last six months.

Archer Materials' deep tech could be game-changing for two key tech sectors

The little-known IGBT device helps trains, cars, and even lights operate more efficiently. And its market share is growing.

Ever Hear of an IGBT? It's One of the Most Power Efficient Devices Around

Creates a bus conductor University of Basel researchers have equipped an ultrathin semiconductor with superconducting contacts. According to SciTechDaily the extremely thin materials with novel ...

Boffins crosses a semiconductor with a superconductor

"Semiconductors can be made to conduct positive or negative charges and can therefore be designed to modulate and manipulate current," says Professor Martin Kuball of the University of Bristol's ...

Semiconductor measurement technique could pave way for carbon neutrality

The team will research on-chip geometries, enabling scale-up as likely required for applications. Due to the strong interaction of semiconductor materials with photons the

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researchers will achieve ...

University of Sheffield researchers awarded £6.1m to study light emitting semiconductors for quantum science and technology

Scientists from the University of Basel have fitted superconducting contacts in an ultrathin semiconductor, for the first time.

Researchers Fix Superconducting Contacts in Ultrathin Semiconductor

Prof Martin Kuball of the University of Bristol's School of Physics said: "Semiconductors can be ... there is an output current used in the application. Inside this electronic device is an ...

Scientists develop energy saving technique paving way for a carbon neutral society

Graphene and many other two-dimensional materials are either semiconductors ... new applications on the nanometre scale. Johanna Rosén, professor in the Department of Physics, Chemistry and ...

Are MXenes the future of nanotechnology?

Whether in smartphones, televisions or building technology, semiconductors play a central role in electronics and therefore in our everyday lives. In contrast to metals, it is possible to adjust their ...

Ultrathin semiconductors are electrically connected to superconductors for the first time

Researchers have equipped an ultrathin semiconductor with superconducting contacts. These extremely thin materials with novel electronic and optical properties could pave the way for previously ...

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