

Concepts In Thermal Physics

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Concepts In Thermal Physics

A love of chemistry that started in high school, matched with a supportive family and an achievement mindset, have guided Jennifer Sample's innovative career. Sample earned her 10th patent last year. ...

Achievement Mindset Helps Jennifer Sample Master the Process of Invention

Recently, I participated in an autocross event for the first time in several years. Since I was a little rusty and hadn't run before with the club that was hosting, I was paired up with an instructor. ...

What Is 'Back-Siding A Cone' And How Does It Help Your Driving?

Topological states of electrons such as quantum Hall effect (QHE) and topological insulators (TI) are some of the most important developments in contemporary condensed matter physics ... concepts in ...

EFRI NewLaw: Controlling Thermal Transport with Topologically Guided Heat Carriers

With the recent discovery of thermodynamics, there wasn't much left in physics to ... theoretical in concept. It absorbs all light radiation and is at a state of thermal equilibrium.

The Ultraviolet Catastrophe

Two University of Dayton sustainability experts worked on a paper on ocean thermal energy conversion (OTEC) highlighted in a Climate Analytics blog post. University of Dayton professor Bob Brecha and ...

ISI staffers' paper explores Caribbean Islands' potential use of ocean thermal energy conversion

1 Departamento de Física Teórica de la Materia Condensada and Condensed Matter Physics Center (IFIMAC), Universidad Autónoma de Madrid, 28049 Madrid, Spain. 2 Donostia International Physics Center, ...

Manipulating matter by strong coupling to vacuum fields

An invisibility cloak may seem like science fiction, but despite that, many scientists and engineers have put much time into developing the concept ... some very advanced physics, hide objects ...

Active Camouflage Material Shows Promise At Hiding From Infrared Or Visual Detection

Of these three principle modalities, LiDAR is the most nascent technology to be commercialized for mass-market use, even though the concept of using light to ... At the heart of the discussion is some ...

Understanding wavelength choice in LiDAR systems

Now, scientists at Fraunhofer IAF have presented pioneering integration concepts with GaN-based integrated ... Fraunhofer Institute for Applied Solid State Physics IAF is researching GaN-based ...

GaN low-voltage designs enable compact 3-phase motor inverter IC

VIJAYAWADA: Sreelekha Bhuvaneshwari, a BSc Physics final-year student in SRM University-AP, filed a patent for her work "A fibre material with moisture retention capacity with thermal tolerance ...

SRM varsity student files patent for thermal tolerance

A research team, led by Professor Dai-Sik Kim in the Department of Physics at UNIST has developed a new technique of predefining the crack pattern on a flexible substrate by a sequential ...

New study presents transformative metasurface based on zero-gap embedded template

Acquisition expands GT-SUITE capabilities in power electronics WESTMONT, Ill. (PRWEB) Gamma Technologies (GT), a global leader and innovator in ...

Gamma Technologies Acquires Power Design...

Recent advancements in "proof-of-stake" blockchain networks, carbon offsetting, alternative energy, and more will lead to an environmentally friendlier future for NFTs, experts say ...

The Crypto World Is Getting Greener. Is It Too Little Too Late?

Specifically, SiC-based substrates provide superior thermal conductivity when compared to Si-based ... considerations in the design process that are as material constraints as physics-based. In ...

A Week of GaN: 3 MMICs Target Ka-band, Reduced Area, and 5G Base Stations

an abstract yet bedrock physics concept. Chesterfield's students will prototype ways to maximize or minimize heat transfer and then study the result with special cameras that can detect thermal ...

WKU's Week of STEM sparks inspiration for teachers

Okkham's exploration of the philosophical concept of nominalism and his preference ... The visitor suggests setting up an infrared camera to catch the thermal emissions from the dragon's breath ...