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An exploratory investigation into the behavior of materials with desirable electric properties has resulted in the discovery of a structural phase of two-dimensional (2D) materials. The new family of

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New family of atomic-thin electride materials discovered

Two-dimensional (2D) materials have attracted interest because of the unusual properties that emerge in these confined structures. There is a growing family of 2D metal carbides and nitrides known as ...

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The world of two-dimensional carbides and nitrides (MXenes)

1 Jiangsu Provincial Engineering ... designed materials and innovative structures are simultaneously printed within an integral metallic component to yield high performance and multifunctionality, ...

Material-structure-performance integrated laser-metal additive manufacturing

To make any engineered device, structure or product, you need the right materials. Materials science teaches us what things are made of and why they behave as they do. Materials engineering shows ...

What is materials science and engineering?

In a new report now published on Science Advances, Changhee Sohn and researchers in materials ... elements in a specific crystallographic position in a composite material via strain engineering.

Strain-driven autonomous control of cation distribution for artificial ferroelectrics

Peterborough City Council has submitted a bid to the government for extra funding for the forthcoming Peterborough university campus. Anglia Ruskin University (ARU) Peterborough is set to open its ...

Extra £20m of funding could be used to boost new Peterborough university campus

diverse fields of science and engineering. From nanotechnology to planetary science, from metallurgy to quantum materials, they have accelerated the identification, characterization, and ...

Comprehensive electronic-structure methods review featured in Nature Materials

involving finite element analysis (FEA) and computational fluid dynamics (CFD). These tools and others have further broadened the horizons of mechanical engineering. Materials science delves into ...

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What Is Mechanical Engineering?

The big holes in Swiss cheese help make it a tasty treat. Now, scientists at the U.S. Department of Energy's (DOE) Princeton Plasma Physics Laboratory (PPPL) are adding tiny, Swiss-cheese-type holes ...

Swiss-cheese design could help scientists harness the power of the sun

Leaves are the primary plant organs responsible for photosynthesis. Their size, shape and angles — all affected by cell patterning and growth — can also expose more of their surface to the sun, ...

Purdue plant biologists solve major cell puzzle on path to leaf engineering

With increase in global population demand for construction and infrastructure development has risen manifold in the past several decades This is largely in response to surging urbanization and the ...

Which are the top Importer of Global Crusher Backing Materials Market?

RELATED Earth grows large crystals, rare elements in just minutes "For most electronic products and materials ... A pair of engineering teams from Wake Forest University took home first and ...

Recycling of rare elements in electronics may help environment, create jobs

Unless we have control of the materials that drive our economy, we place our security in the hands of countries whose policies are not always in our best ...

Daemen: Can we encourage domestic production of clean energy minerals?

Canada-based NEO Battery Materials Ltd.—which intends to become a silicon anode materials supplier to the EV industry—entered into a Memorandum of Understanding (MOU) with South

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Korean silicon powder ...

Si-anode company NEO Battery Materials to partner with Korea Metal Silicon

which is typically a mixture of carbon fiber and another form of the element, usually graphite, says Ian McCue, an adjunct professor of materials science and engineering, also at Northwestern ...

How the burning heart of a jet engine functions without melting

Manufacturer offers 11 different blade, mid-mallet and mallet models; multi-material construction and new insert add level of forgiveness.

Ping '21 Putters Blend Technology, Human Element

It accounts for the majority of both construction materials and demolition waste. In Europe, concrete buildings are commonly constructed using precast concrete elements. If the old elements could ...

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