

Advances In Permanent Magnetism

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Advances In Permanent Magnetism

Permanent magnets constructed from metal ions and organic linkers using molecular design principles could bring transformative advances in areas such as energy conversion, transportation, and ...

A hard permanent magnet through molecular design

Permanent magnets can be ranked according to their "energy product ... Between 1946 and 1952 the study of rare earth metals had been greatly accelerated by advances in chemical separation techniques ...

Dayton Contributes to the History of Magnetic Materials

And advances in brushless motor technology continue apace ... The motor's rotor consists of a steel shaft with permanent magnets or a magnetic ring fixed around the circumference of the shaft. The ...

Brushless, slotless, and cogless

In its relatively short existence, the aerospace industry has seen more changes than any other major industry. Some of the recent developments of wireless sensors on aircraft structures and health ...

How Advanced Sensors And Actuators Are Enabling High-Tech Smarter Aircraft

Still, permanent magnets are an attractive way to reduce the size of an MRI scanner, especially given advances of the last few decades in magnetics technology. The same rare earth elements that ...

Portable MRI Machine Comes To The Patient

Traction motors have continued to improve, becoming lighter and more powerful, thanks in part to advances in materials. Many of the most effective electric drive motors used on today ' s electric ...

Analysis: The Growing Impact of Rare Earth Elements

Scientists have long known that the Antarctic ice sheet has physical tipping points, beyond which ice loss can accelerate out of control.

Antarctica Is Headed for a Climate Tipping Point by 2060

Permanent magnetic chucks are manufactured from magnetized materials ... Common materials used for magnetic chucks include: Steel Aluminum Brass Recent advances in magnetic materials have increased ...

Magnetic Chucks Information

Recent advances in magnetic resonance imaging (MRI ... find and remove the cause, and prevent permanent damage or death (Javad et al., 2005). Jane Fitzgerald-Hines, BSN RN CNRN, is a mentor ...

Posterior Reversible Encephalopathy Syndrome: A Case Study

Winners of the Global Cooling Prize were recently honored for their cooling advances, creating products ... single- or multi-phase permanent-magnet (PM) and BLDC motor drives.

This Week in PowerBites: Motors with Printed Stators, USAF Approves eVTOL

You can't not see the planes. Beta Technologies' two prized prototypes take up the center of its bustling headquarters inside a hangar at Burlington ...

Flight Path: BTV ' s Beta Technologies Is on the Cusp of a Breakthrough for Electric Aviation

Optical sensors are attractive because of their inherent compatibility with magnetic resonance imaging (MRI). Existing implantable optical components use permanent, nonresorbable materials that must ...

Bioresorbable optical sensor systems for monitoring of intracranial pressure and temperature

Its permanent magnet synchronous electric motor that drives ... or half that time with a 240-volt outlet. The new PHEV advances the technology of the Mitsubishi i-MiEV small electric car.

2018 Mitsubishi Outlander

A new study, released today in the scientific journal Advances in Therapy is providing ... 3D printers may one day become a permanent fixture of the operating theatre after UNSW scientists showed ...

Body Fluids News and Research

Since 2011, 94% of fellows secured a permanent position after their fellowship ... stars are constantly bustling with plasma flows and magnetic fields, which muddles observations of exoplanets ...

STFC invests in next generation of science leaders

The excitation of the rotor in the BMW iX motors is not induced by fixed permanent magnets, but the feed-in ... toolkit also underpins further advances towards highly automated driving.

BMW iX: Heralding a new era in electric luxury

Military secrecy limits public access to details of accidents that show technological advances are still no ... of an unidentified object with high magnetism in the area, at a depth of 50 to ...

Danger in the depths: submarine disasters highlight risks

“ We recognize the significant investment in the COVID-19 vaccine response and listing new advances in medicines ... and AU\$288.5 million to include transcranial magnetic stimulation (TMS) therapy for ...

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