

advances in polyimide science pdf

The inherent specificity and electrochemical reversibility of enzymes poise them as the biorecognition element of choice for a wide range of metabolites. To use enzymes efficiently in biosensors, the redox centers of the protein should have good electrical communication with the transducing electrode, which requires either the use of mediators ...

Direct Metabolite Detection with an n-Type Accumulation

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Scanning wave photopolymerization enables dye-free

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Organic matter preservation is central to understanding biological potential on Mars through time. Whether it holds a record of ancient life, is the food for extant life, or has existed in the absence of life, organic matter in martian materials holds chemical clues to planetary conditions and processes.

Organic matter preserved in 3-billion-year-old mudstones

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

A design-to-device study, based on algorithmic encodings of structure-property relationships, is used to identify new materials with panchromatic optical absorption. 9431 dyes are mined from the literature and optimally paired together to afford co-sensitizing dyes with complementary optical absorption properties.

Advanced Energy Materials: Early View

ABSTRACT. Nanocomposites, a high performance material exhibit unusual property combinations and unique design possibilities. With an estimated annual growth rate of about 25% and fastest demand to be in engineering plastics and elastomers, their potential is so striking that they are useful in several areas ranging from packaging to ...

Nanocomposites: synthesis, structure, properties and new

Capillary electrophoresis (CE) is a family of electrokinetic separation methods performed in submillimeter diameter capillaries and in micro- and nanofluidic channels.

Capillary electrophoresis - Wikipedia

A brain-computer interface (BCI), sometimes called a neural-control interface (NCI), mind-machine

interface (MMI), direct neural interface (DNI), or brain-machine interface (BMI), is a direct communication pathway between an enhanced or wired brain and an external device.

Brain-machine computer interface - Wikipedia

IMAPS/ACerS International Conference and Tabletop Exhibition on Ceramic Interconnect and Ceramic Microsystems Technologies (CICMT). IMAPS is the largest society dedicated to the advancement and growth of microelectronics and electronics packaging technologies through professional education.

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