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Jan Peter van der Hoek; Environmental Science & Technology, ... Environmental Science & Technology, Articles ASAP (Contaminants in Aquatic and Terrestrial Environments) ... Bromine Radical (Br • and Br 2 •–) Reactivity with Dissolved Organic Matter and Brominated Organic Byproduct Formation. Yu Lei, Xin Lei, Paul Westerhoff,

Environmental Science & Technology | Ahead of Print

An organic solar cell (OSC) or plastic solar cell is a type of photovoltaic that uses organic electronics, a branch of electronics that deals with conductive organic polymers or small organic molecules, for light absorption and charge transport to produce electricity from sunlight by the photovoltaic effect.Most organic photovoltaic cells are polymer solar cells.

Organic solar cell - Wikipedia

Our research focuses on the materials science and engineering of several technologies that will impact our society in the future. Energy generation and storage, chemical sensors, nanoelectronics, flexible displays, high performance composites, membrane technologies, coatings, and biomedical technologies are some of the areas we will broadly cover.

Ajayan Research Group

Anti-reflective coatings (ARCs) have evolved into highly effective reflectance and glare reducing components for various optical and opto-electrical equipments.

Anti-Reflective Coatings: A Critical, In-Depth Review

One potential alternative energy source is the use of microbial fuel cells (MFCs). MFCs follow a similar concept to traditional fuel cells ().However, MFCs utilise the bio-catalytic capabilities of viable microorganisms and are capable of using a range of organic fuel sources, by converting the energy stored in the chemical bonds, to generate an electrical current instead of relying for ...

Microbial fuel cells: An overview of current technology

Rodney M. Edmeades, Peter C. Hewlett, in Lea's Chemistry of Cement and Concrete (Fourth Edition), 1998 Selected petroleum products. Mineral oils, waxes, cut-back and emulsified asphalts comprise this group.In the case of the asphalt emulsions, the dispersion is broken by the drying out of the concrete, resulting in hydrophobing and some pore blocking.

Mineral Oil - an overview | ScienceDirect Topics

Abbreviation of Chemical Science. The ISO4 abbreviation of Chemical Science is Chem. Sci. . It is the standardised abbreviation to be used for abstracting, indexing and referencing purposes and meets all criteria of the ISO 4 standard for abbreviating names of scientific journals. ISO4 Abbreviation of Chemical Science

Chemical Science | □□□□□□ (ISO4) - Academic Accelerator

Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. Andrea C. Ferrari * a, Francesco Bonaccorso ab, Vladimir Fal'ko c, Konstantin S. Novoselov d, Stephan Roche ef, Peter Bøggild g, Stefano Borini h, Frank H. L. Koppens i, Vincenzo Palermo j, Nicola Pugno klm, José A. Garrido n, Roman Sordan o, Alberto Bianco p, Laura Ballerini q, Maurizio Prato ...

Science and technology roadmap for graphene, related two-dimensional ...
This work was mainly supported by Korea Carbon Capture and Sequestration Research and Development Center (KCRC) (grant no. 2012-0008907) funded by the Korea government (Ministry of Science, Information Communication Technology and Future Planning).

Selective Gas Transport Through Few-Layered Graphene and ... - Science
Chromate conversion coating or alodine coating is a type of conversion coating used to passivate steel, aluminium, zinc, cadmium, copper, silver, titanium, magnesium, and tin alloys.: p.1265 The coating serves as a corrosion inhibitor, as a primer to improve the adherence of paints and adhesives, as a decorative finish, or to preserve electrical conductivity.

Chromate conversion coating - Wikipedia
Non-metallic coatings — plastics, paints, and oils — can also prevent corrosion. "As scientists, we have the opportunity to make the world a better place. ECS has always been a big part of that because it’s the venue through which all of these scientific interactions are orchestrated."

What is Corrosion? - ECS
Earth has thousands of terragrams of natural nanomaterials moving around the planet annually. This is now accompanied by 1 to 10 Tg of incidental nanomaterials formed in or delivered to the atmosphere from, for example, factory and transportation emissions, mining, forest fires, and urban processes, as well as less than a terragram annually from engineered nanomaterials that make their way ...

Natural, incidental, and engineered nanomaterials and their ... - Science
It is obtained in cyclic, irregular, and dilute form on Earth with very limited power density from 0 to 1 kW / m 2 [1]. At ground level, solar energy received is affected by atmospheric clarity ...

(PDF) Solar Energy Technology - ResearchGate
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