

Contemporary Polymer Chemistry

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Contemporary Polymer Chemistry

Since the beginning of civilization, humans have exploited new materials to improve their lives, from the prehistoric Stone Age, Bronze Age, and Iron Age to the modern Silicon Age. With each period ...

Synthesis method expands material possibilities

Expanding markets and new chemical modifications will make the cosmetic and medical ingredient even more common than it already is ...

Hyaluronic acid is just getting started

A range of new devices manifesting—that are low-power edge computing options—could become a good supplement for cloud computing technology.

Polymer Nano-Memristors for Edge Computing

a research fellow at the Institute of Non-Classical Chemistry in Leipzig. The researchers developed a microscopic theory of polymer gel, each link of which carries an electric dipole—two ...

Researchers develop microscopic theory of polymer gel

New York, USA - April 14, 2021 - Earlier this month, Alfa Chemistry announced it would start to supply photoactive polymers, which could be used for organic photovoltaics research. The company ...

Functional Polymer News: Alfa Chemistry Launches Photoactive Polymers for Organic Photovoltaics Research

Although many tests are currently being used to evaluate the high-energy radiation tolerance of polypropylene, most have little in common with the polymer's performance ... slightly after irradiation.

The Gamma Radiation Tolerance of Polypropylene: Measurement and Enhancement

The impact of bioorthogonal reactivity has been far-reaching with applications spanning protein synthesis, drug discovery, in vivo chemistry and polymer ... be addressed by modern molecular ...

Bioorthogonal chemistry

You'd be hard-pressed to walk down nearly any aisle of a modern food store without coming ... Here's a look at the chemistry of polyester resins,

and how just one slight change can turn ...

Plastics: PETG

This unique book provides a fundamental introduction to all aspects of modern plasma chemistry ... micro- and nanotechnologies 9. Organic and polymer plasma chemistry 10. Plasma-chemical fuel ...

Plasma Chemistry

Of all the modern technologies we've come to take ... graphite or a mix of carbon and other compounds. In fact, the chemistry is quite varied, with anodes, cathodes and the electrolyte solutions ...

History of the rechargeable battery

A new approach to glassmaking treats the material like plastic, allowing scientists to injection mold vaccine vials, sinuous channels for carrying out lab chemistry, and other complex shapes.

Glass molded like plastic could usher in new era of complex glass shapes

Agriculture is one of the oldest human inventions, but nanotech provides modern innovations that could ... Custom-made nanoscale systems can use precision chemistry to achieve high-efficiency ...

Tiny nanotechnologies are poised to have a huge impact on agriculture

This is evident in areas such as forensics, polymers, food & beverage and pharmaceuticals. With these tools, labs can identify dangerous substances, support polymer innovation, ensure the safety and ...

Spectroscopy Week: Virtual Users Meeting

In the modern world, the lithium ion batteries ... During testing, the researchers explored a number of different polymer types but the NiSalen chemistry was the only device that turned out ...

New breed of Battery can charge 10 times faster than Lithium Ion

A rechargeable lithium ion battery consists of two electrodes that are immersed in an electrolyte solution and that are separated by a permeable polymer membrane ... Tesla for its vehicles have ...

Understanding the Role of Cobalt in Batteries

The lead-acid rechargeable battery is a not-quite-modern marvel ... Not all electrolytes are created the same, however, and the chemistry of a non-rechargeable battery means that it can store ...

Better Battery Management Through Chemistry

(Nanowerk News) Since the beginning of civilization, humans have exploited new materials to improve their lives, from the prehistoric Stone Age, Bronze Age, and Iron Age to the modern Silicon ... The ...

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