THIS WEEK IN CHEMISTRY

12TH APRIL - 18TH APRIL 2015



PLANETARY COLLISION THEORY FOR ISOTOPE DISCREPANCY

UK researchers suggest a collision with a Mercury-sized planet could have led to the higher than expected ratio of Nd-142 to Nd-144. This collision could also have led to uranium being incorporated into Earth's core, providing the energy source for its magnetic field.

DOMESTIC SPONGE HAS HIGH CAPACITY TO ABSORB BPA

By accidentally dropping one into a tank of Bisphenol A (BPA) solution, researchers discovered the household sponge has a high capacity to absorb it. BPA is used to make plastics, but there are concerns about its environmental effects in industrial waste water.





PORTABLE SENSOR CAN DETECT WHEN MEAT IS DECAYING

A sensor based on carbon nanotubes and using a cobalt-containing metalloporphyrin can detect the amines produced by decaying meat. The porphyrin binds to these amines, producing electrical resistance in the nanotubes, which can then be easily measured.

VODKA & RUM AS CHEAP CHROMATOGRAPHY SOLVENTS

High-Performance Liquid Chromatography (HPLC) is used to analyse components of mixtures. The solvents used are expensive & difficult to dispose of. A new study used commercial distilled alcohols as effective low-cost solvents, combined with ammonia and vinegar.







INGREDIENTS FOR LIFE FROM METEORITES & SOLAR WIND

- Italian scientists successfully synthesised a wide range of organic compounds, including the bases that make up DNA, using only formamide, powdered meteorite, and a simulated solar wind. It
- suggests meteorites could have brought these compounds to Earth.



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