Uranium to replace plastic? Chemistry breakthrough could pave the way for new materials
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The YouTube series attempts to put world class scientific papers into words that anyone can understand.

The latest discovery means that industry might now be in a position to develop new compounds that can't be made in any other way.

What's more, uranium is one of the elements we know the least about and while it is associated with nuclear weapons and nuclear power, the new discovery suggests other uses may be on the horizon.

Steve Liddle, Professor and Head of Inorganic Chemistry, and author of the paper, said: "This discovery will lead to some monumental developments that could change the way we live. Development work like this really could pave the way for new medicines and also the creation of truly biodegradable hard plastic.

"It is comparable to the discovery of liquid crystal displays, which happened 20 years before everyone sat up and realised that they could be used in modern computer displays and TVs."

More information: Benedict M. Gardner et al, Evidence for single metal two electron oxidative addition and reductive elimination at uranium, Nature Communications (2017). DOI: 10.1038/s41467-017-01363-0

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