Materials Form Function Function Environment

'Hard' materials



Structure:Robust, ultralight materials e.g. carbon fibres

bloomberg.com

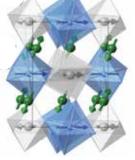
Function: materials with key chemical properties (eg solar)



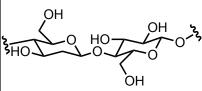
What do we do at Kent?

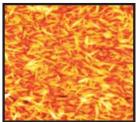
Materials for magnetism - new generation data storage





Philos. T. R. Soc. A, 2019, 377, 7 Chem. Commun., 2019, 55, 3331 Plastics unwrapped - can we use natural cellulose to make biodegradeable plastic?





Langmuir 2017, 33, 32

Most natural polymers dissolve in water - can you identify any?





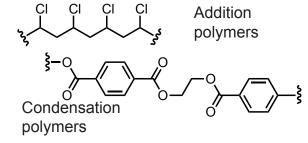


'Soft' materials - plastic

The 20th century saw the rise of plastics in modern society







But degradation a huge issue



forbes com

What can you do at Kent?

Learn about the *theory* and *practice* of materials chemistry

Choose a computational or synthetic research project, use your understanding Learn by teaching the local community



