



Generation of H₂ and Hydrogenation

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Message from the Guest Editors

Over at least the last century, researchers have made significant attempts to achieve synthesis of new organic compounds through hydrogenation. However, the opposite reaction, i.e., the generation of H₂, has also been thoroughly studied in recent decades in order to find a carbon-free energy source as an alternative to petrol. To think the two processes are completely separate would be to overlook the reality of how they are intrinsically linked: Gaseous hydrogen is produced industrially from hydrocarbons by a process known as steam reforming; however, donor molecules, such as formic acid, or alcohols, such as isopropanol or the common ethanol as well as dihydroanthracene, are alternative sources to H₂. What is more, due to the current demand of petrol as an energy source, H₂ is far from easy to obtain.

