

Flow Chemistry in Supercritical Fluids

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Supercritical fluids are gases compressed until they are nearly as dense as liquids.^[1] This lecture will focus particularly on supercritical CO₂ and H₂O. It will use examples from our research group on Nottingham to show how the properties of these two fluids can be exploited for flow chemistry from the small scale^[2] to full commercial scale.^[3] Examples include hydrogenation,^[4] oxidation^[5, 6] and acid catalysed reactions.^[7, 8]

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