



# Chemistry & Industry

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## Welcome to the Current Issue

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Features

### Fuelling change

By Gunter Festel

*The demand for alternative fuels is rising due to the strong and increasing demand for crude oil, rising crude oil prices and stricter emission standards. It is expected that alternative fuels, based on natural gas, coal and biomass, will at first be supplements to conventional fuels and eventually will replace them.*

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Features

### Model behaviour

By Thomas Screen

*With the ever-tightening limits on metal contamination of active pharmaceutical intermediates and the increasing adoption of precious metal (PM) catalysed steps in their synthesis, interest in new ways of reducing downstream metal contamination is increasing. The problem can be tackled at source by using PM containing perovskite catalysts, which minimise the release of PM into the process.*

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Features

### Troubled water

By Steve Callister and Tom Stephenson

*Industrial effluents, such as landfill leachate or pharmaceutical wastewater, have high ammonia levels. Also, many wastewater treatment works are consented by the UK Environment Agency for ammonia at < 5 mg/l NH<sub>3</sub>-N in treated effluent. Hence, the requirement for an alarm is critical as the consequences of nitrification failure can be serious.*

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