ISSN 1463–9076 PCCPFQ6(14) 3765–3918 (2004)

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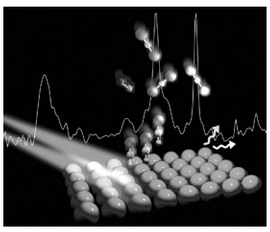
Physical Chemistry Chemical Physics



Cover
See E. Ozensoy and D. W. Goodman, pp. 3765–3778.
A model heterogeneous catalytic system where the reaction takes place at the gas/solid interface at elevated temperatures and pressures ($\sim$1 bar, $>$500 K). Using polarization modulation infrared reflection absorption spectroscopy (PM-IRAS), a molecular level understanding of both surface and gas phase species associated with the catalytic reaction can be achieved *in situ* under conditions that mimic industrial catalysis in a more realistic manner than traditional surface science experiments at low temperatures and pressures ($\sim 10^{-12}$ bar, $\sim$100 K).

Image kindly supplied by Professor David Goodman, Department of Chemistry, Texas A & M University, USA.

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ISSN 1463–9076
www.rsc.org/pccp

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An International Journal