

PERSONAL PARTICULARS

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PRESENT APPOINTMENT: SENIOR SCIENTIST (GRADE I)
TEAM LEADER OF CATALYST TESTING
HETEROGENEOUS CATALYSIS
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RESEARCH INTEREST

1. Heterogeneous catalysis
 - H₂/syngas production from natural gas and biomass.
 - CO₂ capture and utilization
 - Conversion of biomass to fuel and chemicals
2. Catalyst/nanomaterial synthesis and application in catalysis
3. Surface science
 - Mechanistic study of catalysis reaction, including *in situ* study of the gas adsorption and reactions on solid surfaces using XPS, UPS, Raman, FTIR and TPR/TPD techniques.