ACHIEVEMENT

i. OMS-2 could be synthesized in a facile manner
   - without the need of presence of \( K^+ \) ion.
   - \( SO_4^{2-} \) ion was found to play a crucial role in OMS-2 phase formation.

ii. OMS-2 as well as its metal modified forms have been found to be active for benzyl alcohol oxidation. A mechanism has been proposed for the enhanced activity towards the oxidation of benzyl alcohol to benzaldehyde.

iii. OMS-2 has been successfully tested for the first time as anode material for use in direct methanol fuel cells.