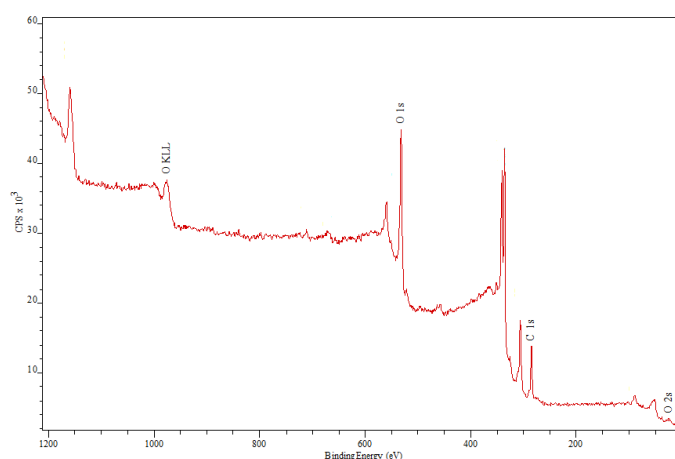


Advanced Materials Research Group project summary

Project Title	Coated metal hydrides for thermal energy storage applications
Researcher	Priyen Mistry Email: emxpm3@nottingham.ac.uk
Project Summary	While coatings on thin films have been studied extensively, their effect on spheres remains unknown. This approach may not only improve the hydrogenation kinetics of metal hydrides but also provide solutions for cyclability issues and concerns surrounding safe handling of the material. Current areas of research include the effects of transition metal coatings, applied via magnetron sputtering, on FeTi and Mg based alloys for low and high temperature hydrogen thermal stores respectively.



TEM analysis



XPS analysis