

Curriculum Vitae



Robert Lindsay

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Current Position

Senior Lectureship in Corrosion Science and Engineering, School of Materials,
University of Manchester (01/08/11 -)

Research Interests

Primarily, Rob's research activity is concerned with mechanistic understanding of surface/interface properties of relevance to corrosion, along with gaining insight into the structure and chemistry of oxide surfaces. A range of experimental approaches are employed, including both laboratory and synchrotron based *state of the art* surface probes (e.g. surface X-ray diffraction and vibrational sum frequency spectroscopy). Research involves collaboration with a number of other groups, both within the UK and outside, including close links with theoreticians, who provide greater insight into the experimental data. Currently, significant funding for the research work is provided by BP, AkzoNobel, and Tata Steel.

Selected Recent Publications

- *Structure of a model TiO₂ photocatalytic interface*
H. Hussain *et al*, Nature Mat. (2016) doi:10.1038/nmat4793.
- *Structure of model dye/titania interface: Geometry of benzoate on rutile-TiO₂(110)(1x1)*
W. Busayaporn *et al*, J. Phys. Chem C 120, 14690 (2016).
- *An ex situ study of the adsorption of calcium phosphate from solution onto TiO₂(110) and Al₂O₃(0001)*
M. Murphy *et al*, Surf. Sci. 646, 146 (2016).
- *Corrosion inhibition of carbon steel with 2-mercaptobenzimidazole in hydrochloric acid*
P. Morales-Gil *et al*, Corros. Sci. 101, 47 (2015).
- *Geometry of α -Cr₂O₃(0001) as a function of H₂O partial pressure*
M.H.M. Ahmed *et al*, J. Phys. Chem. C 119, 21426 (2015).
- *Wet chemically prepared rutile TiO₂(110) and TiO₂(011): Substrate preparation for surface studies under non-UHV conditions*
M.H.M. Ahmed *et al*, Surf. Sci. 630, 41 (2014).

Selected Other Activities

Co-chair of Interdisciplinary Surface Science Conference, ISSC-21 (Manchester, April 2017).
Guest Editor for special issue of Metals on Corrosion Inhibition (2016 -).
Member of EPSRC UK Photoelectron Spectroscopy Roadmap working group (2015 -).
Chair of Faraday Discussion on *Corrosion Chemistry* (London, April 2015).
Associate Director of Materials for Demanding Environments Centre for Doctoral Training (2014 -).