



Roles in UPSIGN: Chairman (from Dec 31 2017), core group member and energy research lead.

Name: Professor Jawwad Darr

Title: Professor of Materials Chemistry

Employer: University College London, UK

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Personal or research website: www.ucl.me.uk



Track record of UK-Pakistani engagement or future aspirations for UPSIGN:

- visiting professor at COMSATS IRC in Biomedical Materials since 2008
- Supported Pakistani PhDs on study visits to my lab
- Given numerous talks to Pakistani universities
- Supported training and grant writing for Pakistani academics
- Developing capacity for renewable energy and energy storage in Pakistan
- co-founder member of UPSIGN

Professional Biography:

Dr Jawwad A. Darr joined UCL in 2007 and is vice dean enterprise for MAPS (Maths and Physical Sciences) at UCL. His research group is one of the leading exponents of continuous hydrothermal (supercritical water) flow synthesis, CHFS, reactors for the production of nanoceramics[1,2] and devices. The technology has been developed in numerous publications for high throughput synthesis to scale-up via a CHFS pilot plant process capable of >1kg per hour) Professor Darr has strong interactions with UK industry related to the discovery of new ceramic nanomaterials in energy (solid oxide fuel cells, Na and Li ion batteries, supercapacitors, transparent conducting oxides), materials discovery/catalysis (reduction of CO₂, water splitting/oxidation catalysis) and healthcare applications (biomedical ceramics, adjuvants). He has won grants in excess of 13 M pounds to date and has over 130 publications with a h index of 38.

[1] Clean materials technology group website, www.ucl.me.uk.

[2] J.A. Darr et al. Chem. Rev. DOI: 10.1021/acs.chemrev.6b00417] (2017).