

## From Lithium Batteries to Perovskite Solar Cells: Atomic-Scale Insights into Energy Materials

*Prof. Saiful Islam,  
University of Bath, UK*

**Wednesday October 2nd, 12:00, Room MED 2 1124 (CoViz2)**

**Abstract:** Breakthroughs in clean energy technologies require advances in new materials and underpinning science. A greater fundamental understanding of energy materials depends upon characterization of their underlying structural and transport behavior. With the aid of 3D glasses, this talk highlights the use of advanced modeling methods in synergy with experimental work to gain atomic-scale insights into novel materials for lithium-ion batteries [1] and perovskite solar cells [2].

[Research details <http://people.bath.ac.uk/msi20>]

[1] N. Aristidou et al., Nature Commun., 8, 15218 (2017); D. Ferdani et al., Energy Environ. Sci., 12, 2264 (2019) .

[2] J. Dawson et al., J. Amer. Chem. Soc., 140, 362, (2018); J. Dawson et al., Energy Environ. Sci., 11, 2993 (2018).