UNIVERSITY OF AMSTERDAM
Faculty of Science

RESEARCH PRIORITY AREA SUSTAINABLE CHEMISTRY

Invitation to a John van Geuns Foundation lecture by

Prof. Fan DONG

University of Electronic Science and Technology of China (UESTC)

Interfacial Mechanisms of Atmospheric Chemistry and Environmental Catalysis

Tuesday 15 April 2025 | A1.04 | 11am

This lecture will introduce the research background in the fields of environmental catalysis and air pollution control, and the basic principles of photocatalysis and electrocatalysis. I will present our research platform of comprehensive in-situ characterization techniques for the interfacial active sites and reaction mechanisms, and our thoughts on dealing with the current scientific issues. The following advances in our group will be discussed in detail: (1) photochemical conversion mechanisms of reactive nitrogen in the atmospheric environment; (2) interfacial mechanisms of photo/electrocatalytic NH_3 Synthesis from NO_x; (3) photocatalytic conversion of CO_2 into C1/C2 solar fuels and (4) exploring the integration of environmental catalysis and artificial intelligence.

Fan Dong *is Distinguished Professor at the Institute of Fundamental and Frontier Sciences, University of Electronic Science and Technology of China. He serves as the director of the Research Center for Carbon-Neutral Environmental & Energy Technology at UESTC, and as the Editor of ACS ES&T Engineering. Prof. Dong has published more than 200 papers, that were cited over 50,000 times. He is recognized as a Highly Cited Researcher by Clarivate Analytics and Elsevier (H-index=114). His research interests span environmental and energy catalysis, advanced in situ characterization technology, and gas sensors.*



If you wish to meet with Prof. Dong, please contact Gadi Rothenberg, g.rothenberg@uva.nl