

THE EDUCATION UNIVERSITY OF HONG KONG
FACULTY OF LIBERAL ARTS AND SOCIAL SCIENCES

Research Output/Impact/Knowledge Transfer Prize
for the Dean's Research Fund 2018-19

**Brief Introduction of Awardee's
Research/KT Publication/Study/Output and Future Research/KT Development**

Awardee (Dept): Dr. Leung Chi Fai, Assistant Professor (SES)
Publication Title/KT project: Efficient photocatalytic water reduction by a cobalt(II)
tripodal iminopyridine complex

A. *Briefly introduce your research/KT publication/study/output for which you have received the prize.*

The output concerns the design and evaluations of a molecular catalyst for mediating photo-driven generation of hydrogen, which is expected to be a important energy vector in fuel cell technology. Such materials are useful for converting solar energy into storable chemical forms.

B. *How you used/will use your prize and perhaps its usefulness to your research/KT development?*

The prize will be important in extending my current studies on the above materials and lead will to further publications and funding opportunities such as GRF and ITF.

C. *Expected research/KT outcomes/outputs/impacts arising from this prize.*

**Two journal publications are expected with the following title:
*Photocatalytic reduction of water with a carbocation photosensitizer and 3d transition-metal catalysts.***