# 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 2019/20

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

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| **Awardee (Dept):** | Dr Leung Chi Fai, Assistant Professor (SES) |
| **Publication Title/KT project:** | The Important Role of Coordination Geometry on Photophysical Properties of Blue-Green Emitting Ruthenium(II) Diisocyano Complexes Bearing 2-Benzoxazol-2-ylphenolate |

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

**The publication concerns the design, preparation and photophysical studies of a series precious metal (ruthenium) compounds which exhibit rare blue-green photoluminescence. In particular, the influence of the spatial arrangement of the organic moieties (ligands) attached to the metal centre is found to have profound influence on the emission properties. As a result of the different ligand spatial arrangement, two isomeric forms of the ruthenium compound are isolated and found to demonstrate varied emission properties. In addition, one of these isomers demonstrates rigidochromic effect, where the emission energy varies with the rigidity in a polymerizing matrix.**

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

**The PI would like to thank the Faculty for the prize. The funding will be used to financially support the on-going research on the development of novel photofunctional metal-based chromophores.**

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

**A peer-reviewed publication will be submitted from the work supported partially by this prize.**