

## **Prof. Meng Ni Awarded Research Grant from National Natural Science Foundation/Research Grant Council (NSFC/RGC) Joint Research Scheme**



Huge congratulations to Prof. Ni Meng on receiving a grant of around HK\$ 1.2 Million from the National Natural Science Foundation/Research Grant Council (NSFC/RGC) Joint Research Scheme! Prof. Ni's winning project is "Coupling hydrogen production by high temperature electrolysis with iron-and-steel works to recover industrial waste-heat for low-carbon metallurgy".

The iron-and-steel industry is an extremely important, energy-demanding, and polluting industry due to the use of huge amount of coke for reduction in the blast furnace. In this project, a new integrated system combining the reversible solid oxide cell (RSOC) with the iron-and-steel works and the renewable power is proposed. The RSOC will use the waste heat from the iron-and-steel works and the excess renewable power for hydrogen production, which will be used for direct reduction in the iron-and-steel works.

Prof. NI is currently a Professor and Associate Head (Research) of Department of Building and Real Estate. He is a Humboldt Fellow (Germany). His research focuses on high temperature fuel cells, rechargeable metal-air batteries, flow batteries, novel electrochemical

cells for low-grade heat harvesting, and energy materials. He is serving as a **Senior Editor** for **Sustainable Energy Technologies and Assessments**: <https://www.journals.elsevier.com/sustainable-energy-technologies-and-assessments> (Elsevier) and a former Associate Editor for Science Bulletin (Elsevier). Recently, he has been invited to be an **Associate Editor** for **International Journal of Green Energy**: <https://www.tandfonline.com/toc/ljge20/current> (Taylor & Francis) and **International Journal of Energy Research**: <https://onlinelibrary.wiley.com/journal/1099114x> (Wiley). He is also one of the founding editors of **Energy and AI**: <https://www.journals.elsevier.com/energy-and-ai/> (Elsevier).

Have a read of Prof Ni Meng's profile :

<http://www.bre.polyu.edu.hk/staff/bsmengni/index.htm>

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