

## **BRE Academics teaching BRE2031-Environmental Science Were Awarded Research Grants from Environmental Protection Department**

Congratulations to our Associate Professor Dr. Meng Ni and Research Assistant Professor Dr. Yongtao Tan for their success on winning 2 research grants from Environment and Conservation Fund (ECF), Environmental Protection Department (EPD) of HK SAR. Both Dr. NI and Dr. Tan teach BRE2031-Environmental Science. Both are very active researchers in Energy and Environment.

### **About their projects:**

**Dr. Yongtao Tan** was awarded a research grant for a project entitled: Study on Green Retrofit of Aged Residential Buildings in Hong Kong

This project aims to collect and identify the best practices (technologies, programmes, or schemes) of green retrofit of buildings and analyze their application to Hong Kong; develop green retrofit guidelines for aged residential buildings in Hong Kong, and provide Government suggestions to initiate relevant schemes to help building owners.

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**Dr. Meng NI** was awarded a research grant for a project entitled: A new method for simultaneous plastic waste treatment and electricity generation using high performance direct waste solid oxide fuel cells (DW-SOFC)

This project aims to develop advanced electrochemical systems for simultaneous plastic waste treatment and energy recovery. Advanced fuel cells will be fabricated, characterized and tested. Comprehensive mathematical models will be developed to simulate the coupled transport and reaction processes in the fuel cells for subsequent system optimization.

### **About Dr. Tan and Dr. Ni:**

**Dr. Tan** obtained his Bachelor Degree (*BEng in Civil Engineering*) and Master Degree (*MSc in Engineering Management*) from Southeast University, Nanjing, China. And he obtained his PhD degree from The Hong Kong Polytechnic University. He is currently a Research Assistant Professor in the Department of Building & Real Estate, The Hong Kong Polytechnic University. Dr. Tan's major research interests are competitiveness and strategic management in construction, sustainable construction and sustainable urbanization. He has published 20 papers on top refereed journals (9 papers in SCI/SSCI journals; Web of Science **h-index: 4**) and 4 book chapters. He has won the ECS fund in the 2015/16 round. Dr. Tan is also an active reviewer for international journals, such as Journal of Construction Engineering and Management, Journal of Civil Engineering and Management, Habitat International. He has served as session chair for 2 international conferences. He is also the council member of The Chinese Research Institute of Construction Management (CRIOCM) and A.M. ASCE.

More information can be found at: <http://www.bre.polyu.edu.hk/staff/bstan/index.htm>

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**Dr. Meng NI** received his Bachelor, Master and Doctoral degrees in 2000, 2003 and 2007, respectively. He is currently an Associate Professor at Department of Building and Real Estate. He is the group leader for **Building Energy Research Group** at BRE and the group leader for **Environmental Energy Research Group** at Research Institute for Sustainable Urban Development (RISUD). Dr. Ni's research interests include **renewable and sustainable energy technologies (i.e. fuel cells and solar energy), numerical heat and mass transfer, building energy and built environment**. Dr. Ni has published **over 90 papers** in prestigious scientific journals and he is the first author or sole author for most of his publications. Dr. Ni's publications have received more than **4000 SCI citations (excluding self-citations)**. His current **H-index is 28 (web of science)**. Dr. Ni is a member of American Society for Mechanical Engineers and The Electrochemical Society. He is the **Associate Editor** for 3 academic journals: (1) *Sustainable Energy Technologies and Assessments* (Elsevier); (2) *Science Bulletin* (Springer); and (3) *Frontiers in Environmental Science*. He is serving as a member of **Editorial Board for 9 scientific journals** and an **active reviewer** for over 60 scientific journals. He has delivered over **20 keynote/invited lectures** at international conferences. He has served as a committee member for 7 international conferences and a session chair for 5 international conferences. Dr. Ni received **Young Scientist Award** from The Hong Kong Institution of Science in 2007 and **Top Reviewer Award** from *Applied Energy* in 2011. Recently, Dr. Ni also received outstanding reviewing awards from 6 excellent journals, including *Applied Thermal Engineering*, *Applied Energy*, *Energy Conversion and Management*, *Journal of Power Sources*, *Chemical Engineering Journal*, and *Electrochimica Acta*.

More information about Dr. Ni can be found at: <http://www.bre.polyu.edu.hk/staff/bsmengni/index.htm>  
Dr. Ni's journal publications can be found at: <http://www.researcherid.com/rid/D-3589-2009>

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