

Professor Yulong Ding

University of Birmingham, UK
Phase Change Materials (PCMs) based Technologies for Heating and Cooling Decarbonisation



Professor Yulong Ding is the founding Chamberlain Chair of Chemical Engineering and Director of University of Birmingham Centre for Energy Storage. He invented liquid air energy storage technology and led the initial stage of its developments and validation, which is commercialised by Highview Power. He developed composite phase change materials for thermal energy storage and associated large-scale manufacture technologies, leading to large scale commercial applications with a total installation of >300MW / >1.2GWh so far. His work on passively cooled container technology has been on large scale commercial demonstration for cold chain transportation applications.

He has published over 450 technical papers with ~350 in peer-reviewed journals (GS H Index of ~ 71) and filed 70+ patents. He currently serves on the Molten Salts Advisory Group of the UK Department for Business, Energy and Industrial Strategy; UK Royal Society Net Zero Panel; IChemE Publication Medal Assessment Panel; and European Technology, and Innovation Platform Working Group on Smart Networks for Energy Transition (ETIPSNET). He led the heating and cooling briefing of a policy document on Climate Change: Science and Solutions published recently by the Royal Society. He is an associate editor of Energy Storage and Saving (Elsevier) and Discovery Energy (Springer), and serves on the editorial boards of Journal of Energy Storage (Wiley), Journal of Thermal Science (Springer), and Particuology (Elsevier).

Professor Ding's work was recognised by the election to Fellow of Royal Academy of Engineering (2020); the award of IChemE Clean Energy Medal (2021); the IChemE Global Awards in three categories of Energy, Research Project and Outstanding Achievement Awards in 2019; the Distinguished Energy Storage Individual Award (Beijing International Energy Storage and Expo, 2018); the Cryogenic Energy Storage Research Chair Award (Royal Academy of Engineering, 2014).

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Professor Ibrahim Dincer

Ontario Tech. University, Canada
Innovative Hydrogen Production Technologies and Future Directions



Professor Ibrahim Dincer is a full professor of Mechanical Engineering and a leading researcher in the area of sustainable energy technologies. He has authored/co-authored many books and book chapters, along with many refereed journal and conference papers. Dr. Dincer has chaired many national and international conferences, symposia, workshops and technical meetings and delivered many keynotes and invited lectures. Dr. Dincer is an active member of various international scientific organizations and societies, and serves as editor-in-chief, associate editor, regional editor, and editorial board member on various prestigious international journals. He is a recipient of several research, teaching and service awards, including the Premier's research excellence award in Ontario, Canada.

During the past seven years Dr. Dincer has been recognized by Thomson Reuters as one of the Most Influential Scientific Minds in Engineering and one of the most highly cited researchers. During the past 25 years his research and activities have been diverse and primarily focussed on sustainable energy solutions, sustainable communities and cities, district energy systems, green buildings, renewable energy technologies, energy storage technologies, hydrogen energy technologies, and waste to energy technologies. His group has developed various novel technologies for commercialization. He is known for his engineering education related talks as a committed educator.

He is President of Hydrogen Technologies Association, and Editor-in-Chief of International Journal of Energy Research; Energy Storage; International Journal of Exergy; International Journal of Global Warming; International Journal of Research, and Innovation and Commercialisation. Also Special Issues Coordinating Editor, International Journal of Hydrogen Energy.

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Zoom