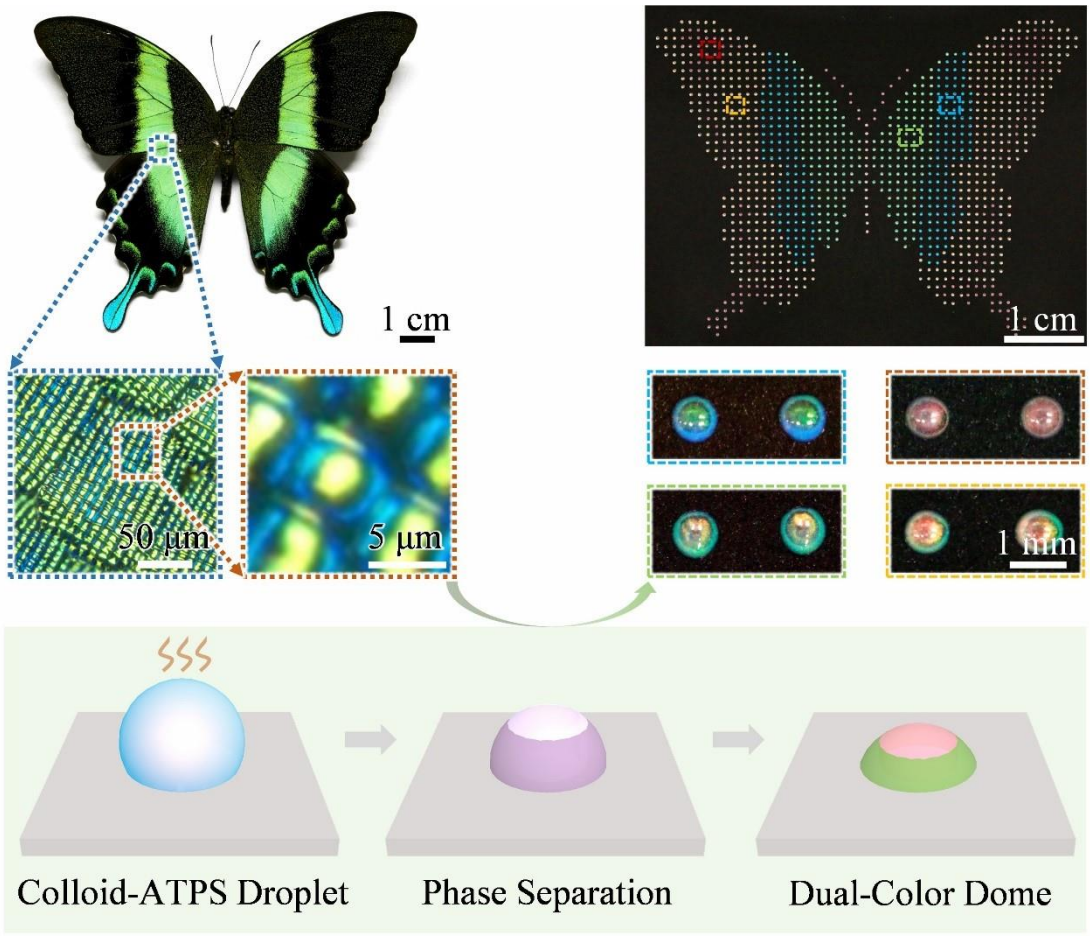
Department of
MECHANICAL ENGINEERING
The University of Hong Kong

Oct 2022/ No.6

RESEARCH

One-Pot Self-Assembly of Dual-Color Domes Using Mono-Sized Silica Nanoparticles

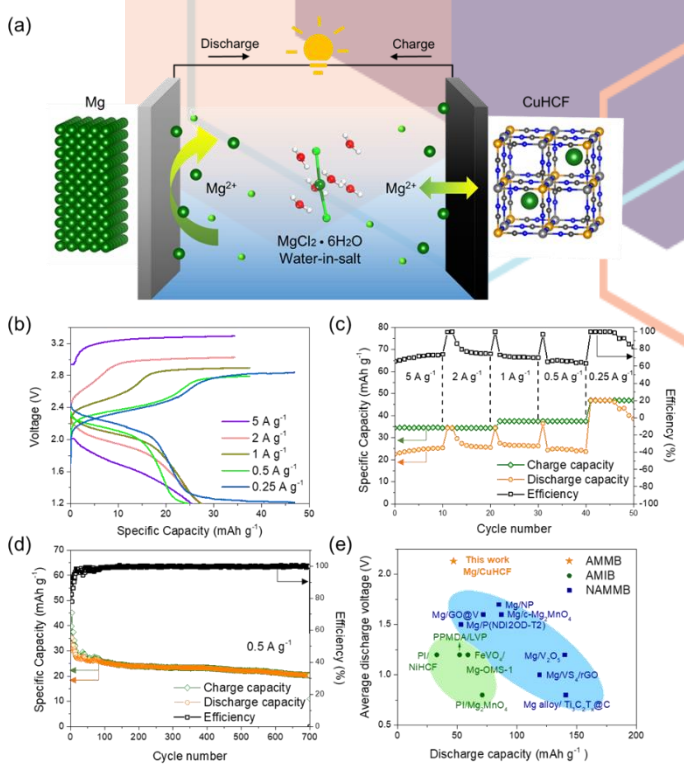


"One-Pot Self-Assembly of Dual-Color Domes Using Mono-Sized Silica Nanoparticles", a paper in Nano Letters.

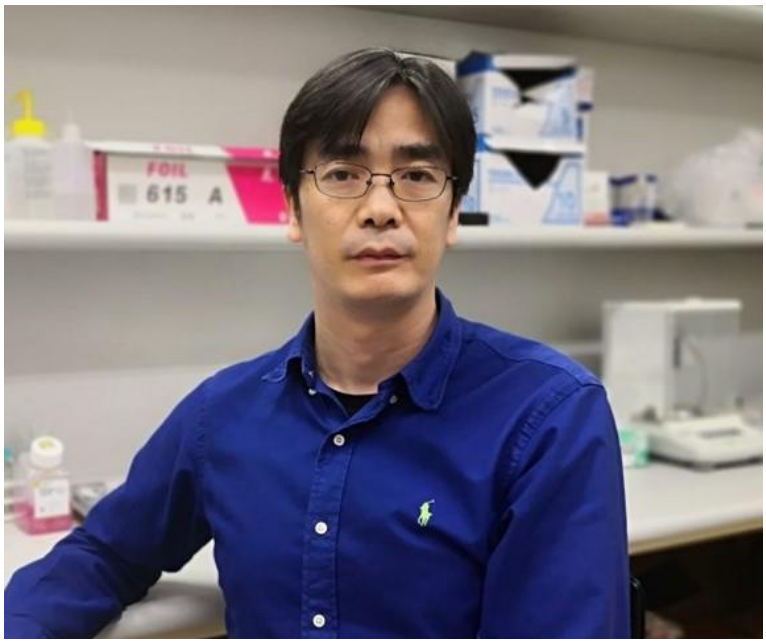
Chang Li, a PhD student and a research team led by Professor Anderson Ho Cheung Shum, Professor of Department of Mechanical Engineering devised a "One-Pot Self-Assembly of Dual-Color Domes Using Mono-Sized Silica Nanoparticles". This work is a collaboration with Professor Yanlin Song and Associate Professor Huizeng Li from the Institute of Chemistry, Chinese Academy of Sciences. Recently, the research work has been published in Nano Letters on June 22, 2022…Read more

Reversibility of a High-Voltage Mg Metal Battery Enabled by a Water-in-Salt Electrolyte

In a research team led by Prof. Dennis Y.C. Leung, Professor of Department of Mechanical Engineering, Sarah Leong, a PhD student, and her teammates designed a highly reversible aqueous Mg metal battery. The battery exhibits a high voltage plateau of 2.4–2.0 V over 700 cycles, with a Coulombic efficiency of up to 99% at 0.5 A g–1.This research work has been recently published in ACS Energy Letters on July 21, 2022…Read more



Ultrastrong and multifunctional aerogels with hyperconnective network of composite polymeric nanofibers



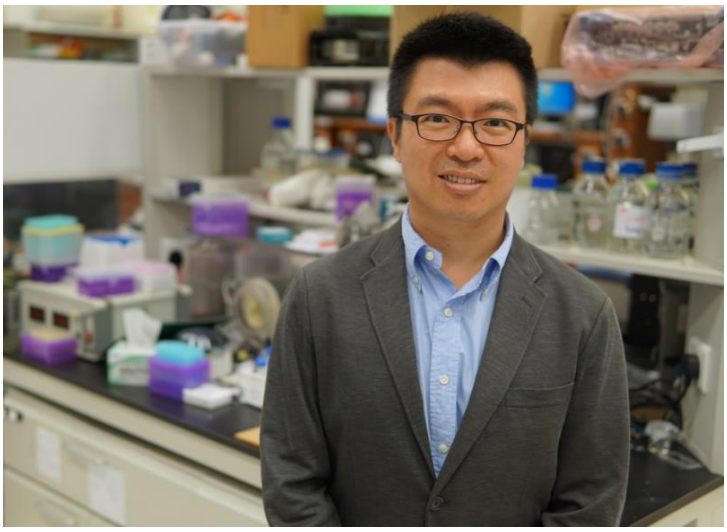
Dr Yuan Lin of the Department of Mechanical Engineering had worked on the research for the topic "Ultrastrong and multifunctional aerogels with hyperconnective network of composite polymeric nanofibers". The research has beenis recently published by Nature Communications on July 22, 2022...Read more

AWARDS

Professor Yuguo Li received The 14th Guanghua Engineering Science and Technology Prize

Professor Yuguo Li, Chair Professor of Building Environment and Associate Dean (Research) of Engineering, received The 14th Guanghua Engineering Science and Technology Prize by the Chinese Academy of Engineering in recognition of his significant achievements and contributions in the field of engineering technology and engineering management. The Guanghua Engineering Science and Technology Prize is regarded as the highest award in the field of Engineering Science and Technology in China…Read more

Professor Anderson Shum was appointed as the President of The Hong Kong Young Academy of Sciences



Professor Anderson Ho Cheung Shum, Professor of the Department of Mechanical Engineering and Associate Vice-President (Research and Innovation) of the University, was appointed as President of The Hong Kong Young Academy of Sciences (YASHK) after the Executive Committee of HKYAS had appointed the second term of members...Read more

Dr Chow Chi Yung Philip awarded China's Excellent Young Scientists Fund 2022

Young researchers at the University of Hong Kong (HKU) have achieved outstanding results in the Excellent Young Scientists Fund (Hong Kong and Macau) for 2022.

Ten HKU young scientists have been awarded the prestigious fund under the National Natural Science Foundation of China, an organisation managed by the Ministry of Science and Technology (MOST).

This has been the fourth consecutive year for HKU to be awarded the highest number of projects among its peer institutions…Read more

Two ME teams won Awards at the 6th Engineering InnoShow, HKU

Organised by Innovation Academy, the Engineering InnoShow were scheduled to be held at the end of each semester, and where students can showcase their innovative projects and achievements to their peers and public as a way of knowledge exchange and giving back to the society.

The sixth Engineering InnoShow "Innovation Unbounded" showcased a number of innovative Engineering student projects at Tam Wing Fan Innovation Wing on May 31, 2022...Read more

HKIE Environmental Division Prize for 2021-2022 Best Final-Year Environmental Project

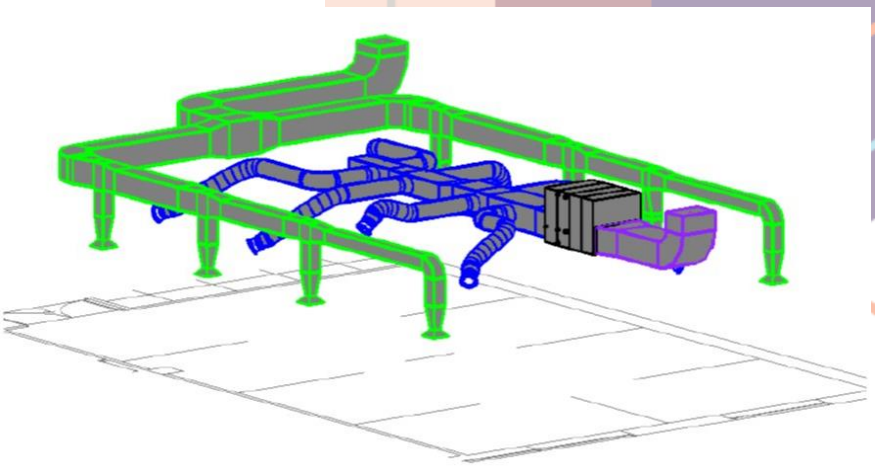
Congratulations to our UG students Cheung Yan Hin, Hins, Lui Wing Hin, Oscar and Ng Yau Shing, Alex (Supervisor: Dr. LIU C. H.) for receiving the Group Project Winner of 2021/2022 Best Final Year Environmental Project Award hosted by Environmental Division, HKIE for the project "Desktop flow visualization"…Read more

ASHRAE Hong Kong Chapter - Dr. Edwin Hsueh-Chi Tao Scholarship 2021-2022

Congratulations to our student Mr. Chan Lok Kan for receiving the ASHRAE HKC – Dr. Edwin Hsueh-Chi Tao Scholarship in recognition of his outstanding academic performance and contribution in ASHRAE...Read more

Final Year Students winning the ASHRAE Design Competition 2022

Congratulations to our final year students Cheung Wan Ki, Chow Sze Wah, Sum Ho Yin, Yung Ho Lam who have just won the first place in the HVAC Design Calculations Category of the ASHRAE Design Competition 2022. This is the fourth year that HKU participated in the competition. Since receiving the Rising Star Award in 2019, student teams were able to reach the podium for three consecutive years in 2020, 21 & 22…Read more



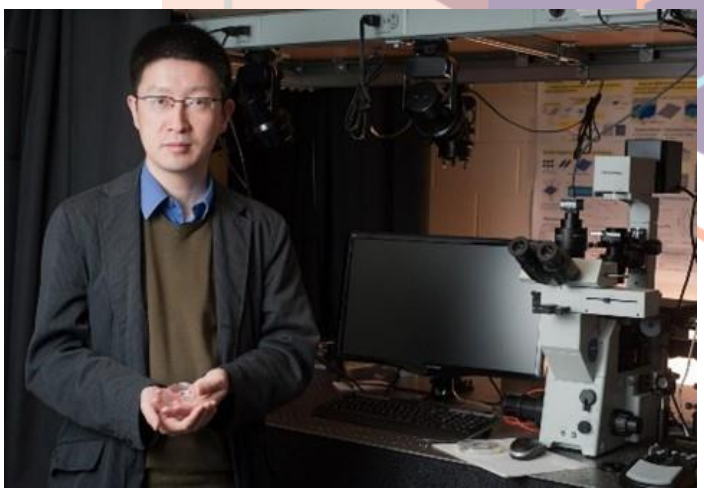
Race Tech William Kimberley Award in the Formula Student UK 2022 Concept Class competition

HKU Racing has finished the Formula Student UK 2022 Concept Class competition in Silverstone, UK, bringing the Race Tech William Kimberley Award back to Hong Kong.

Formula Student (FS) is Europe's most established educational engineering competition. Backed by industry and high-profile engineers such Patron, Ross Brawn OBE, the competition aims to develop enterprising and innovative young engineers and encourage more young people to take up a career in engineering…Read more

NEWS

New staff - Professor Nicholas Xuanlai Fang



Professor Nicholas Xuanlai Fang joined the department of mechanical engineering as full professor in July 2022. Professor Fang received his Bachelor's (1996) and Master's(1998) Degree of Physics from Nanjing University, China; and his PhD of Mechanical Engineering from UCLA (2004). He was on the faculty of Mechanical Engineering at University of Illinois (Urbana-Champaign) from 2004 to 2010 , and at MIT from 2011 to 2022…Read more

Biomedical Innovation and Outreach Programme (B.I.O.2022)

Biomedical Innovation and Outreach Programme (B.I.O.2022) has successfully been held throughout June and July. Aiming at exposing students to biomedical advancement in both academia and industry, and establishing a platform for connection, communication, collaboration and commercialization, an international conference in hybrid mode has attracted over 150 attendees whereas the outreach activities have served over 170 participants...Read more

1+1 Radio Control Model Airplane Flying Experience Camp (Indoor and outdoor)

Organised by HKU Mechanical Engineering department, Tam Wing Fan Innovation Wing and Hong Kong Model Engineering Club (HKMEC), the 1+1 Radio Control Model Airplane Flying Experience Camp was held on 9 August, 2022 and 18 August, 2022

In this two-day camp, students from secondary takes the chance to learn RC plane build and flying. We successfully promoted the energy of the engineering faculty and exchange our knowledge with the participants…Read more

ME Newsletter is published by Department of Mechanical Engineering of The University of Hong Kong

@Mech.HKU @mechhku mech@hku.hk

www.mech.hku.hk (852) 3917 2635