



Issue 21 (July 2021)

Event



College of Engineering

The Student Project Exhibition 2021, a signature event of the College, was held virtually on 29 and 30 June 2021. Some 30 student projects and 8 featured projects were presented in the form of interesting videos. Additionally, the College organised 8 live STEM workshops where participants were able to interact with our teachers in real time on various STEM topics.

Faculty Achievement



Department of Electrical Engineering

Prof Henry CHUNG received the 2021 IEEE PELS R David Middlebrook Achievement Award for his contribution to energy utilisation technologies for smart cities. The award was established in 2011 to honour an individual who has made outstanding contribution in the field of power electronics.

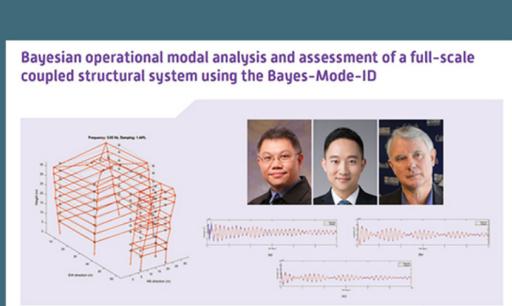
Faculty Achievement



Department of Materials Science and Engineering

Prof Alex JEN has received a grant of HK\$600,000 for the Croucher Advanced Study Institute 2021/22 for his proposal titled "Frontiers of Organic Semiconductors from Challenges to Opportunities".

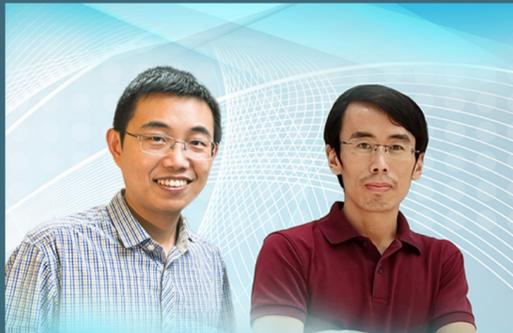
Faculty Achievement



Department of Architecture and Civil Engineering

An article entitled "Bayesian operational modal analysis and assessment of a full-scale coupled structural system using the Bayes-Mode-ID, Engineering Structures" by Dr Paul LAM et al. received the Commendation Merit in the Structural Excellence Award 2021 from the Hong Kong Institution of Engineers.

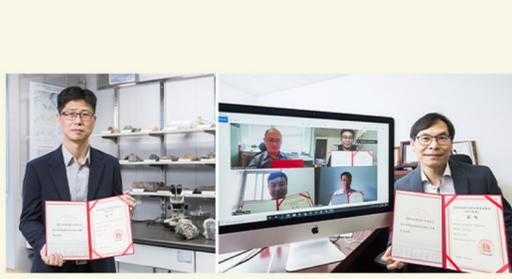
Faculty Achievement



Departments of Biomedical Engineering and Mechanical Engineering

A research team co-led by Dr SHEN Yajing and Dr YANG Zhengbao developed a new kind of soft sensor with skin-comparable characteristics. The research, published in *Science Robotics* under the title "Soft magnetic skin for super-resolution tactile sensing with force self-decoupling", could possibly improve the quality of life of people who suffer from serious injuries and disabilities.

Faculty Achievement



Departments of Architecture and Civil Engineering and Computer Science

A research team led by Prof WANG Yu, and a collaborative research project led by Prof Sam KWONG won the 2020 First Class Award and Second Class Award respectively in the Natural Science category at the Higher Education Outstanding Scientific Research Output Awards (Science and Technology).

Faculty Achievement



Department of Biomedical Engineering

Dr XU Chenjie and his research team have developed a new generation of microneedles which allows the intradermal delivery of living cells in a minimally invasive manner. The research findings were published in *Nature Biomedical Engineering*, titled "Cryomicroneedles for Transdermal Cell Delivery".

Faculty Achievement



Department of Biomedical Engineering

A research team co-led by Dr YU Xinge and scientists from Northwestern University in the US has designed a simple electromechanical device that can be used for deep tissue pathology diagnosis, such as psoriasis, in an automated and non-invasive fashion. The research findings were published in *Nature Biomedical Engineering*.

Faculty Achievement



Department of Materials Science and Engineering

The research work of Prof ZHI Chunyi and Dr FAN Jun, which revealed a 4-stage intercalation process and energy conversion in a graphite cathode of anions with different configurations, was published in *Nature Communications* under the title "Manipulating anion intercalation enables a high-voltage aqueous dual ion battery".

Student Achievement



Department of Architecture and Civil Engineering

Ms LIANG Jingmin, a taught postgraduate student, received the Certificate of Merit in the Esri Young Scholars Award 2021 competition. Her project titled "How Did Hong Kong's Housing Market React to COVID-19" was supervised by Dr LI Xin.

Alumni Achievement



Department of Mechanical Engineering

Mr Ronstar POON, a 2017 graduate of the BEng Mechatronics Engineering, won the 2nd Prize of the Hong Kong Institution of Engineers Trainee of the Year after completing his 2-year Scheme "A" training at The Hong Kong and China Gas Company Limited (Towngas) as a Graduate Trainee.

