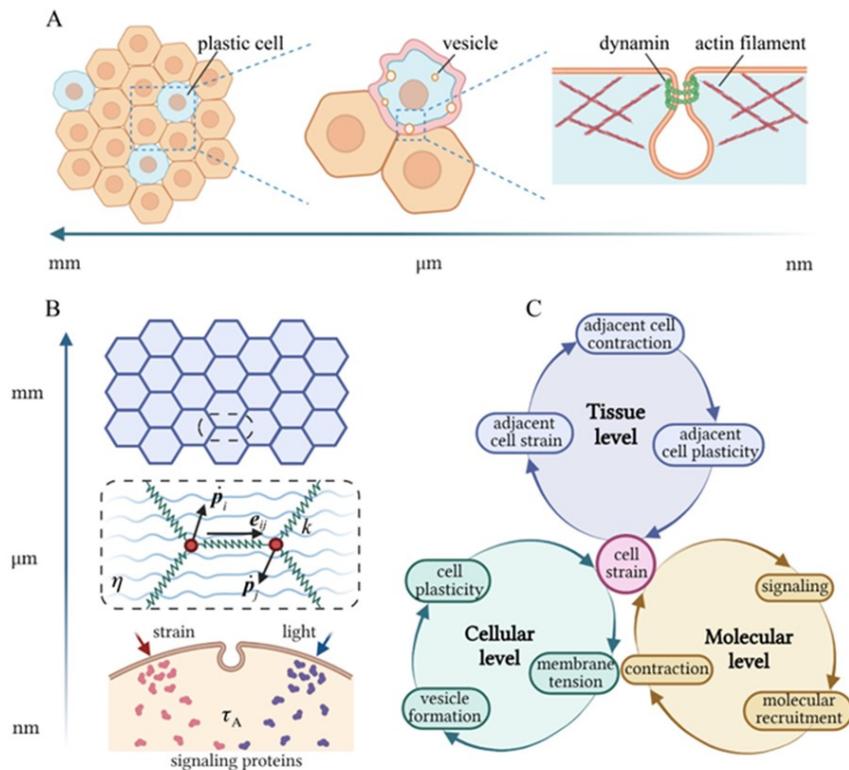




HKU ME scientists make breakthrough in cell and tissue mechanics



A research team led by Professor Yuan Lin (including Mr. Fuqiang Sun, Dr. Chao Fang, and Dr. Xueying Shao) from the Department of Mechanical Engineering at the University of Hong Kong has made major breakthrough in elucidating the initiation and propagation of plastic deformation in cells and tissues, a fundamental question not well understood by scientists before...[Read more](#)

Shaping the future of electronic devices



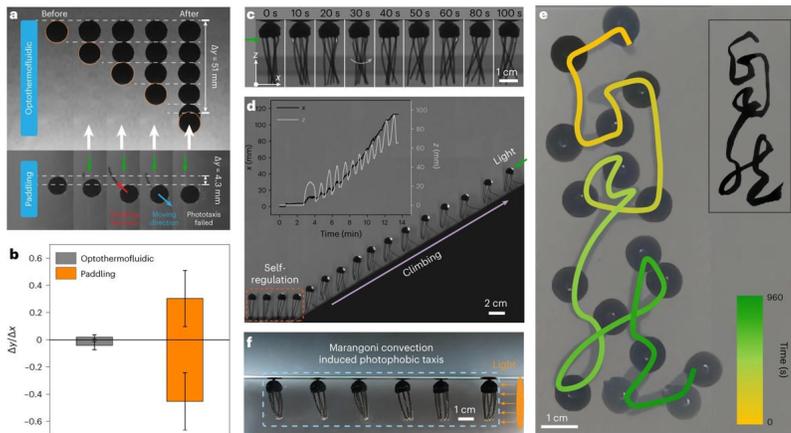
While increasingly people's daily lives depend on apps on their mobile phones, software development is but one of the many concerns of scientists. Nanomaterials, 2D chips or even chips empowered by artificial intelligence are among the 'hardware' that could bring vast changes...[Read more](#)

Next-generation magnesium-ion batteries: Quasi-solid-state approach to multivalent metal ion storage

Professor Dennis Y.C. Leung of the Department of Mechanical Engineering and his team worked on the research for the topic "Next-generation magnesium-ion batteries: the quasi-solid-state approach to multivalent metal ion storage". The research findings were recently published in Science Advances on August 9, 2023...[Read more](#)



Self-regulated underwater phototaxis of a photoresponsive hydrogel-based phototactic vehicle



Professor Nicholas Fang and his team had worked on the research for the topic "Self-regulated underwater phototaxis of a photoresponsive hydrogel-based phototactic vehicle". This work is a collaboration with Prof Xiaoshi Qian at Shanghai Jiaotong University. The research is recently published by Nature Nanotechnology of August 2023...[Read more](#)

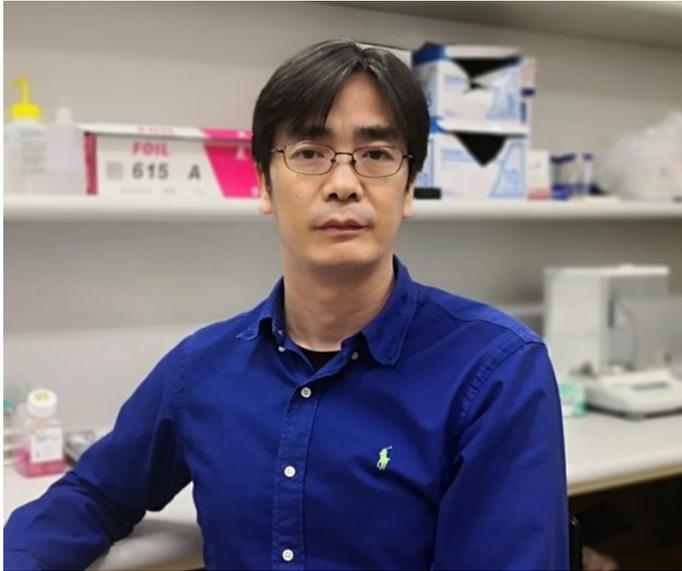
HKU Engineering 'Super Steel' team develops New Ultra Stainless Steel for Hydrogen Production

A research project led by Professor Mingxin Huang at the Department of Mechanical Engineering of the University of Hong Kong (HKU) has made a brand-new breakthrough over conventional stainless steel and the development of stainless steel for hydrogen (SS-H2).

This marks another major achievement by Professor Huang's team in its 'Super Steel' Project, following the development of the anti-COVID-19 stainless steel in 2021, and ultra-strong and ultra-tough Super Steel in 2017 and 2020 respectively...[Read more](#)



"A mechanism-based theory of cellular and tissue plasticity", a paper in PNAS



Professor Yuan Lin of the Department of Mechanical Engineering and his team worked on the research for the topic "A mechanism-based theory of cellular and tissue plasticity". The research findings were recently published in PNAS on October 23, 2023...[Read more](#)

AWARDS

Best Experimental Paper 2022-2023, selected by Society for Cardiac Robotics Navigation

A research team led by Professor Ka-Wai Kwok of The University of Hong Kong (HKU)'s Department of Mechanical Engineering developed a robotic system for the control and tracking of cardiac catheters for electrophysiology (EP) under magnetic resonance imaging (MRI). This multi-disciplinary work has been selected as the Best Experimental Paper 2022-2023 at the Seventh annual meeting of Society for Cardiac Robotics Navigation (SCRN) recently, in Washington D.C. in October...[Read more](#)



8th International Invention Innovation Competition in Canada (iCAN 2023)

Professor Dennis Y.C. Leung, Professor Anderson H.C. Shum and their teams bagged awards in the 8th International Invention Innovation Competition in Canada (iCAN 2023)...[Read more](#)



Miss Xiaodie Chen Wins Best Poster Presentation Award at the 2023 TERMIS-AP Conference

Miss Xiaodie CHEN, a final-year PhD student supervised by Professor Min Wang in the Department of Mechanical Engineering, has won the Best Poster Presentation Award (SYIS) at the Tissue Engineering and Regenerative Medicine International Society Asia-Pacific Chapter Conference 2023 (2023 TERMIS-AP) which was held on October 16-19, 2023 in Hong Kong's Science Park...[Read more](#)



PhD student Xue HAN receives a student paper award at an international acoustics conference

Miss Xue HAN, a 2nd year PhD student, made a presentation at the Acoustics 2023 Sydney, 2-8 Dec (Annual Conference of the Acoustical Society of America, joint with the Acoustical Society of Australia) and received a Student and Early Career Best Paper Award from the Acoustical Society of America Noise Technical Committee...[Read more](#)



Innovation and Technology Fund

Professor Xiaobo Yin had received the Innovation and Technology Fund for the project "Scarlet Greenhouse Envelope: Improving Greenhouse Production and Energy Efficiency".

The Innovation and Technology Fund (ITF), administered by the Innovation and Technology Commission, aims to increase the added value, productivity and competitiveness of our economic activities... [Read more](#)

