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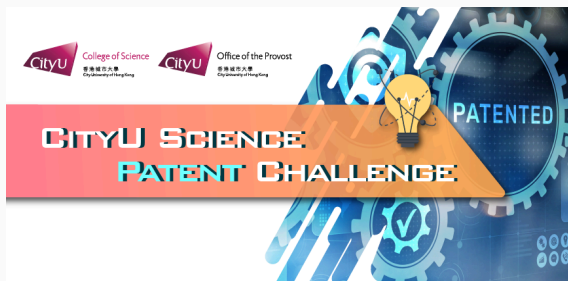
July 2022



CityU-Nature Conference a Resounding Success

The Department of Chemistry co-organised the "Nature Conferences: Chemistry of 2D Materials" held online 17-19 May 2022, with the highly prestigious science journal *Nature* and its sister journals. The 3-day conference gathered around 1,000 scientists who exchanged innovative views on the syntheses of 2D materials and their chemical functionalisation. [Read more](#)

News

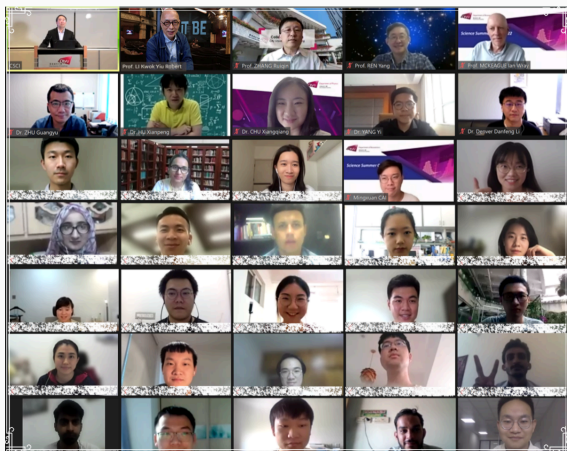


CityU Science Patent Challenge 2022 Opens to Secondary School Students

To excite their passion for science and discovery, this STEM competition introduces the concept of intellectual property and entrepreneurship to secondary school students. The winning teams will have the opportunity to own a patent, become a member of the CityU HK Tech 300 programme and receive HK\$100,000 per team as seed funds to develop their ideas further. [Register now](#)

New Streams of BSc Computing Mathematics Launched

The Department of Mathematics has introduced two new stream options—Enriched Mathematics, and Financial Mathematics—to the [BSc in Computing Mathematics programme](#) (JUPAS code: JS1206) with effect from academic year 2022/23. The streams will equip students with concrete knowledge in areas of data analytics and financial risk management.



First-hand Research Education Experience from Science Summer Camp 2022

Over 100 enthusiastic prospective PhD candidates participated in the fourth Science Summer Camp online on 19-20 July 2022. Despite the COVID-19 pandemic situation, the participants had a chance to explore research education opportunities with the departments, and meet with prospective PhD supervisors while staying at home safely around the world. [Read more](#)

Achievements

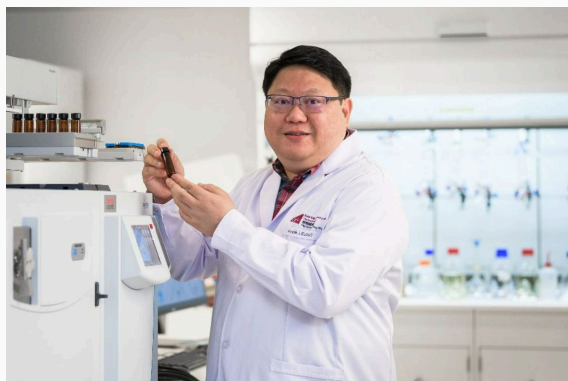


Three CityU Science-led Local Start-ups Received up to HK\$1 Million Each under HK Tech 300 Angel Fund

Three local start-ups led by faculty member and alumni of the College of Science have been selected to receive investment funding up to HK\$1 million each, under the HK Tech 300 Angel Fund from City University of Hong Kong. [Read more](#)

Professor Tong Yang Elected a Foreign Member of Academia Europaea

Professor Tong Yang, Chair Professor of Department of Mathematics, has been elected as a Foreign Member of Academia Europaea, for his exceptional achievements in the area of partial differential equations and kinetic systems.

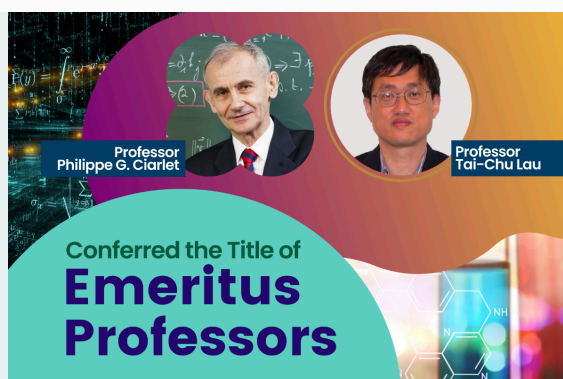


Professor Kenneth Leung Elected Fellows of the Royal Societies of Chemistry and Biology

Professor Kenneth Leung, Acting Head and Chair Professor of Department of Chemistry, has been elected Fellows of the Royal Society of Chemistry and the Royal Society of Biology, for his remarkable impact in chemical sciences, and his prominent contribution to the advancement of the biological sciences.

Professor Philippe G. Ciarlet and Professor Tai-Chu Lau Conferred the Title of Emeritus Professor

Professor Philippe G. Ciarlet, University Distinguished Professor in the College of Science, and Professor Tai-Chu Lau, Chair Professor of Department of Chemistry, have been conferred the title of Emeritus Professor upon retirement on 1 July 2022 in recognition of their distinguished contributions to education, research and professional services during their service at the University. [Read more](#)



Outstanding Achievements in Teaching, Research and Knowledge Transfer Recognised

Congratulations to the recipients of College Awards 2021/22:

Teaching Excellence Award:

Professor Kenneth Lo, Professor of Department of Chemistry

Outstanding Knowledge Transfer Award:

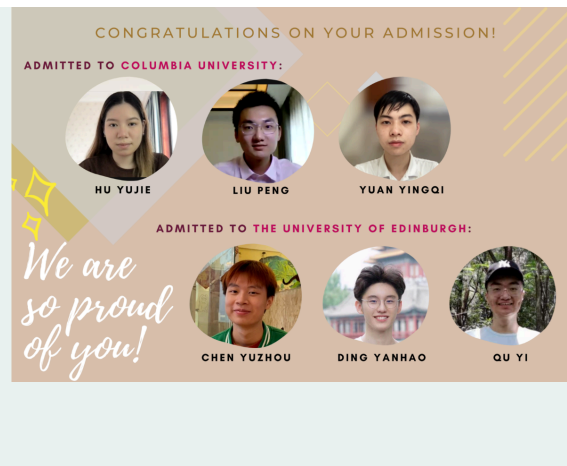
Dr. Vincent Ko, Associate Professor of Department of Chemistry

Outstanding Young Researcher Award:

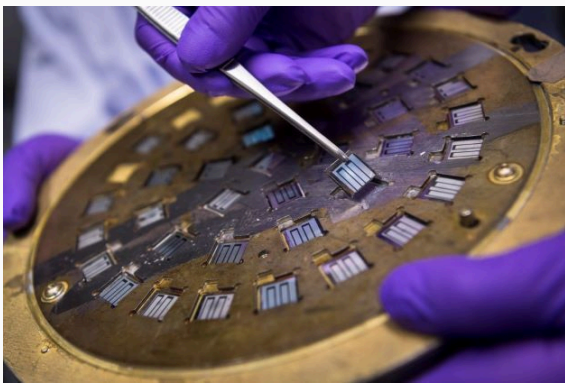
Dr. Zonglong Zhu, Assistant Professor of Department of Chemistry

Six Science Students Admitted to Joint Degree Programmes in Columbia University and University of Edinburgh

Six students from the College of Science were admitted to the Joint Bachelor's Degree Programmes in Columbia University, US and The University of Edinburgh, UK, for entry in the 2022/23 academic year. On completion of the curriculum requirements, students will earn two bachelor's degrees—one from CityU, and the other one from the partner university. [Read more](#)



Research

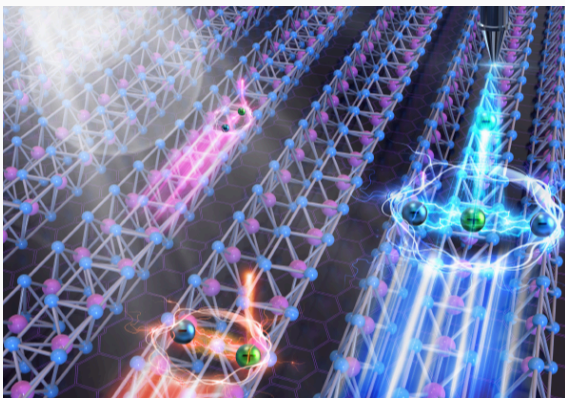
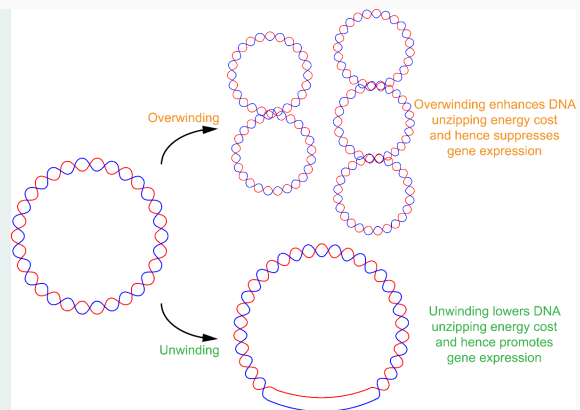


Efficiency of Perovskite Solar Cells Boosted to Record High

An international research team co-led by Dr. Zonglong Zhu, Assistant Professor of Department of Chemistry, is accelerating the commercialisation of perovskite photovoltaic technology with a new approach that boosts the efficiency of inverted perovskite solar cells (PSCs) to a record high of 25%. [Read more](#)

Physical Mechanisms Explaining DNA and RNA Twist Changes

The double-helix structure of DNA deforms by environmental stimuli, which will then affect gene expression, and eventually trigger a sequence of cellular processes. Recent researches led by Dr. Liang Dai, Assistant Professor of Department of Physics, observed substantial DNA deformations by ions and temperature changes. [Read more](#)



Fast-moving Excitons Observed for First Time in Metal

In a world first, a team co-led by Dr. Junzhang Ma, Assistant Professor of Department of Physics, has discovered that excitons—excited electrons bound to empty electron “holes”—can exist stably and travel rapidly through metal. The discovery unlocks potential to speed up digital communication. [Read more](#)



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