



RESEARCH

EXCELLENCE

研究卓越

Driving Global Scientific Progress

CityUHK's research achievements in 2024/25 underscore a thriving ecosystem of curiosity, creativity and collaboration. This rapidly rising global reputation further accentuates the University's leadership in high-quality research output, exceptional research strengths and international academic impact.

推動全球科研進步

城大在2024/25年度的研究碩果纍纍，足證其致力培養求知慾、創意及協作精神，構建一個蓬勃生態圈。城大的國際聲譽躍升，進一步印證城大在高質量科研產出、卓越研究實力及國際學術影響力方面的領先地位。

RESEARCH EXCELLENCE

研究卓越

#1
in Hong Kong
全港第一



Nature Index's "2025 Research Leaders: Leading Institutions" rankings
《自然指數》「2025 科研領導者」排名

Percentage of Highly Cited Researchers named by Clarivate in 2024
(by faculty size)

城大學者入選科睿唯安「2024年度最廣獲徵引研究人員」比率

Percentage of the world's "Top 2% Scientists" named by Stanford University in 2024
(by faculty size)

城大學者入選史丹福大學「2024年全球首2%頂尖科學家」比率

#1
in Asia
全亞洲第一



"Citations per Faculty" in the QS World University Rankings 2026

QS 2026年世界大學排名「教員論文平均被引用次數」

CityUHK commends 32 top 1% of global scholars.
城大表彰32位全球首1%頂尖學者。



領先排名與學術影響力

城大在《自然指數》發布的「2025科研領導者」排名中表現出色，榮膺香港第一，位列全球第70、亞太區第37，印證城大在高質量科研產出、卓越科研實力及國際學術影響力方面的領先地位。

該排名涵蓋全球逾18,000個機構，包括大學、研究機構、政府部門及其他組織，統計在頂尖期刊中的文章貢獻份額，涵蓋《自然》、《科學》、《刺針》等權威刊物。

廣獲徵引研究人員

城大32位學者榮膺科睿唯安「2024年度最廣獲徵引研究人員」，人數位列全球第29、亞洲第八及香港第二。該名單旨在表彰對科學及社會科學有重大影響力的研究學者，他們因在各自學科範疇發表多篇論文，獲徵引的次數位居最高1%之列而膺選。

全球首2%頂尖科學家

根據史丹福大學於2024年10月公布的「全球首2%頂尖科學家」，城大有近210位教研人員榜上有名。

Leading Rankings and Academic Influence

CityUHK achieved outstanding results in the "2025 Research Leaders: Leading Institutions" rankings, released by *Nature Index*, placing No. 1 in Hong Kong, 70th globally and 37th in the Asia-Pacific region. This achievement reaffirms CityUHK's leading position in high-quality research output, exceptional research capabilities, and international academic influence.

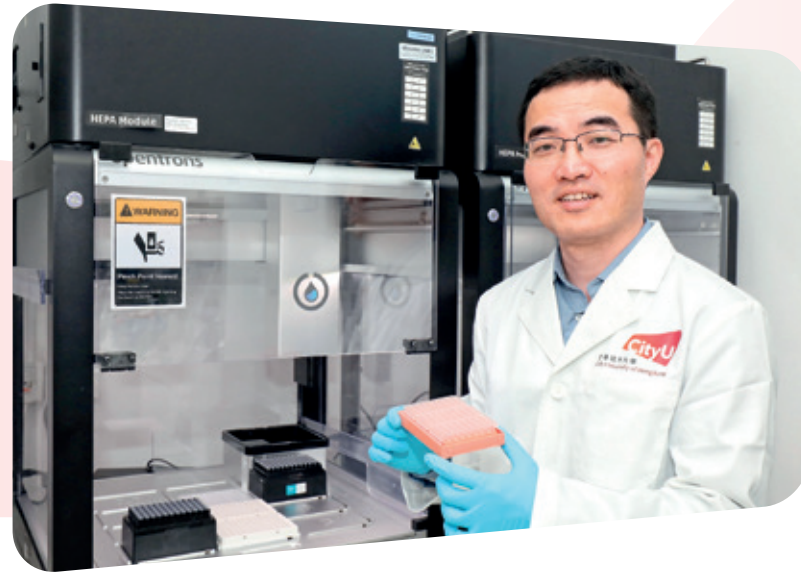
The ranking encompasses over 18,000 institutions worldwide, including universities, research organisations, government departments and other bodies. It is determined by each institution's article share in top-tier journals, such as *Nature*, *Science* and *The Lancet*.

Highly Cited Researchers

Thirty-two CityUHK faculty members were named Highly Cited Researchers in 2024 by Clarivate, placing the University 29th worldwide, 8th in Asia and 2nd in Hong Kong. The list recognises scientists and social scientists who have demonstrated substantial influence in their fields by publishing multiple highly cited papers ranked in the top 1% by citations.

World's Top 2% Scientists

According to a report published by Stanford University in October 2024, nearly 210 CityUHK faculty members were ranked among the world's top 2% scientists.



Professor Zheng Zongli
鄭宗立教授

促進產學研合作

城大四個創新項目獲「產學研1+計劃」撥款支持，彰顯城大致力推動知識轉移與產業應用，以創新研究貢獻社會，發揮影響力。

獲撥款項目包括：

- 由系統工程學系馮憲平教授領導的「化學添加劑優化電鍍銅在先進電子封裝和三維積體電路中的應用」。
- 由物理學系劉奇教授領導的「開創下一代鋰離子電池的先進正極材料」。
- 由材料科學及工程學系張其春教授領導的「基於本徵安全水系電池的規模儲能和備用電源開發及應用」。
- 由生物醫學科學系鄭宗立教授領導的「治療遺傳性疾病的體內體細胞人類基因組編輯：將新型基因組編輯和工程交付載體轉化為臨床試驗」。

RAISe-ing the Bar

Four innovative projects received funding from the Research, Academic and Industry Sectors One-plus Scheme (RAISe+ Scheme), highlighting CityUHK's commitment to driving knowledge transfer and industry applications, contributing to society through innovative research and amplifying its impact.

The funded projects are as follows:

- Chemical Additive-Enabled Advancements in Electroplated Copper for Advanced Electronic Packaging and 3DIC Applications, led by Professor Feng Shien-ping, from the Department of Systems Engineering.
- Breakthrough Cathode Materials for Next-generation Lithium-ion Batteries, led by Professor Liu Qi, from the Department of Physics.
- Development and application of large-scale energy storage and UPS systems based on intrinsically safe aqueous batteries, led by Professor Zhang Qichun, from the Department of Materials Science and Engineering.
- In Vivo Somatic Human Genome Editing for Genetic Diseases: Translating Novel Genome Editing and Engineered Delivery Vectors into Clinical Trials, led by Professor Zheng Zongli, from the Department of Biomedical Sciences.

Funding Success Highlights 研究資助成果

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RGC Senior Research Fellow Scheme and RGC Research Fellow Scheme 2024/25 (Number of awardees)

Six outstanding CityUHK scholars, including four Chair Professors, received funding exceeding HK\$42 million in total under the Research Grants Council (RGC) schemes.

獲2024/25年度研資局高級研究學者計劃及研資局研究學者計劃資助的學者人數

城大六位優秀學者獲研究資助局（研資局）撥款逾4,200萬港元，當中包括四位講座教授。

Ten interdisciplinary science initiatives received record funding of HK\$60 million through the Collaborative Research Fund 2024/25.

Thirty-two distinguished CityUHK scholars received funding from the National Natural Science Foundation of China (NSFC) for 2024, showcasing the University's strong research capability. This included the prestigious National Science Fund for Distinguished Young Scholars, which awarded RMB 4 million to Professor Xu Chenjie, from the Department of Biomedical Engineering, and RMB 2.3 million to Professor Wang Wenxiong, from the School of Energy and Environment, for a major project under the Key Programme funding.

Three CityUHK scholars received joint funding of over HK\$8.8 million under the NSFC/RGC Collaborative Research Scheme for 2024/25, while five scholars were awarded a total of over HK\$6 million through the NSFC/RGC Joint Research Scheme for 2024/25.



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Research Impact Fund 2024/25 (Number of projects and funding)

Five research projects were awarded HK\$26.4 million in total.

獲2024/25年度研究影響基金撥款的項目數量及資助金額

五個研究項目合共獲得2,640萬港元資助。

此外，十項跨學科研究計劃獲2024/25年度協作研究金撥款6,000萬港元，創歷年新高。

城大32位傑出學者榮獲2024年國家自然科學基金委員會（基金委）資助，印證城大科研實力雄厚。其中，生物醫學工程學系徐臣杰教授獲「國家傑出青年科學基金項目」撥款400萬人民幣；能源及環境學院王文雄教授獲「重點項目」撥款230萬人民幣。

城大三位學者的研究項目獲2024/25年度基金委及研資局合作研究重點項目計劃資助，總額逾880萬港元。另有五位學者獲基金委及研資局聯合科研資助基金撥款，總額逾600萬港元。

Key Research Projects 重點研究項目

In 2024/25, CityUHK scholars' groundbreaking work was published in top-tier journals, including *Nature*, *Science*, *Nature Communications*, and the flagship medical journal *Med*.

城大學者於2024/25年度取得科研突破，其研究成果獲刊載於頂尖學術期刊，包括《自然》、《科學》、《自然通訊》及綜合性醫學旗艦期刊《醫學》。



Professor Lu Jian led research to develop stronger and more ductile alloys.

呂堅教授領導有關研製強度及延展性更高的合金研究。

High-performance Materials

Professor Han Jian, from the Department of Materials Science and Engineering, collaborated with local and overseas experts to propose an innovative concept that reshapes our understanding of the dynamic processes within crystalline materials, providing new insights for materials processing and microstructure regulation.

Professor Lu Jian, Dean of the College of Engineering, led a team that developed a supranano magnesium alloy with 2.6-GPa ductility, breaking through the performance limits of conventional metallic materials. Their research was featured as a cover story in *Nature*.

高性能材料

材料科學及工程學系韓健教授與本地及海外學者合作，提出嶄新理論，重塑我們對晶體材料內部動態過程的理解，為材料加工及微觀結構調節提供新思路。

工學院院長呂堅教授領導團隊，成功研製出延展性達2.6-GPa的超納鎂合金雙相材料，突破傳統金屬材料的性能極限。有關研究曾獲選為《自然》期刊封面故事。

Professor Chan Chi-hou and his team co-developed an innovative SPNN platform.

陳志豪教授與團隊共同研發SPNN平台。



Towards 6G Communications

Professor Chan Chi-hou, Chair Professor of Electrical Engineering and Director of the State Key Laboratory of Terahertz and Millimeter Waves, co-led the development of a terahertz spoof plasmonic neural network (SPNN) platform with Professor Cui Tiejun, an academician of the Chinese Academy of Sciences, significantly enhancing diffractive information recognition and processing.

Additionally, Professor Chan's team recorded a breakthrough in antenna technology, creating a synthetic moving-envelope metasurface antenna capable of generating and controlling multiple frequency components. This innovation greatly improves the performance of wireless communication systems and paves the way for 6G mobile networks.

邁向6G通訊

電機工程學系講座教授、太赫茲及毫米波全國重點實驗室主任陳志豪教授，與中國科學院院士崔鐵軍教授共同領導團隊，研發「太赫茲人工等離激元神經網絡」(SPNN)平台，顯著提升衍射信息的識別與處理能力。

陳教授團隊亦在天線技術方面取得突破，研發出「合成移動包絡超表面天線」，可同時產生及調控多組頻率，大幅提升無線通訊系統的效能，為第六代流動網絡(6G)鋪路。

Quantum Materials and Nanotechnology

In collaboration with other researchers from local universities, Professor Ly Thuc Hue, from the Department of Chemistry, discovered a polar quasicrystal vortex in twisted-bilayer molybdenum disulfide. They observed a novel vortex electric field for the first time, opening new possibilities for quantum computing, spintronics and nanotechnology.

量子材料與納米技術

化學系李淑惠教授與本地院校研究人員合作，在扭轉雙層二硫化鉬中發現極性準晶體渦旋，首次觀測到嶄新的渦旋電場，為量子計算、自旋電子學及納米技術領域開拓新機遇。

The next-generation CTC detection platform will further enhance the efficiency and sensitivity of cancer early screening and disease monitoring.

新一代的循環腫瘤細胞檢測平台將提供更高效、更高靈敏度的癌症早期篩查和疾病監測技術。



Biotech & Health

Professor Michael Yang Mengsu, Yeung Kin Man Chair Professor of Biomedical Sciences, collaborated with cross-institutional and cross-disciplinary teams in the Chinese Mainland to develop a single-cell screening and selection system for patients with asthenozoospermia (reduced sperm motility), offering new hope for treating infertility.

In addition, Professor Yang is leading a research team to develop a next-generation platform for detecting circulating tumor cells (CTC), paving the way for more precise cancer diagnosis and treatment. The project is among the first batch to receive funding under the RAISE+ Scheme.

生物和健康科技

楊建文講座教授(生物醫學)楊夢甦教授，聯同中國內地的跨院校、跨學科研究團隊，研發針對弱精症患者的單細胞篩選系統，為不孕症患者帶來新希望。

此外，由楊教授領導的研究團隊正在開發新一代的循環腫瘤細胞檢測平台，有助研發精準癌症診斷和治療方式。研究獲得政府「產學研1+計劃」首輪撥款資助。

Digital Medicine and Global Collaborations

The CityUHK Institute of Digital Medicine (IDM) established a collaboration with the Samsung Advanced Institute for Health Sciences & Technology in South Korea to focus on AI-driven healthcare solutions and jointly advance innovative medical technologies.

The IDM also co-hosted the first Times Higher Education's Digital Health series in Asia, further strengthening its influence and forward-looking vision in the field of smart healthcare.

數碼醫學與全球合作

城大數碼醫學研究院與南韓三星融合醫科學院建立夥伴關係，重點研究人工智能驅動的醫療解決方案，攜手推動創新醫療技術。

數碼醫學研究院亦與泰晤士高等教育合辦亞洲首個「數字健康系列」峰會，進一步鞏固其在智慧醫療領域的影響力與前瞻視野。

Patents and Knowledge Transfer

CityUHK is once again on the prestigious Top 100 Worldwide Universities Granted U.S. Utility Patents 2024 list, ranking 32nd globally and 6th in Asia. The University has achieved the best performance among Hong Kong universities for the ninth consecutive year. This accomplishment further reinforces CityUHK's position as a leading hub for research and innovation in Hong Kong, dedicated to developing impactful solutions that address pressing global challenges.

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Top 100 Worldwide
Universities Granted U.S.
Utility Patents (2016-2024)
全球首100家獲頒最多美國
專利的大學 (2016-2024年)

專利及知識轉移

城大再度入選全球首100家獲頒最多美國專利的大學，在2024年的排名中位列全球第32、亞洲第六，連續九年在港大學生中排名第一，進一步鞏固城大作為香港創新研究樞紐的領導地位，致力開發創新方案，以應對全球迫切挑戰。

The establishment of the National Intellectual Property Operation (Hetao Shenzhen) Transformation Pilot Platform marks a significant step forward in cooperation between Hong Kong and Shenzhen in technology transfer and IP.

國家知識產權營運（深圳河套）轉化試點平台的成立標誌着香港及深圳在技術轉移和知識產權領域的合作邁出重要一步。



The two-day HK Tech 300 Expo featured more than 60 investment roadshows, showcasing how the University's world-class research achievements and innovative entrepreneurial ideas are transformed into practical applications that drive positive social impact. 一連兩日的創新創業博覽「HK Tech 300 Expo」舉辦超過60場創業投資路演，展示城大成功將世界級的科研成果及創新創業意念轉化為實際應用，為社會帶來正面影響。



To promote regional intellectual property (IP) protection and collaboration, CityUHK co-hosted the first Shenzhen-Hong Kong Intellectual Property Forum and held the launch ceremony for the National Intellectual Property Operation (Hetao Shenzhen) Transformation Pilot Platform in December 2024. This initiative aligns with the national strategy of advancing new quality productive forces and strengthening IP development.

During the year, start-ups nurtured by CityUHK's flagship innovation and entrepreneurship programme, HK Tech 300, continued to generate significant benefits for society and industry. The innovative achievements of nearly 300 start-ups were showcased at the inaugural HK Tech 300 Expo in May 2025. The programme also announced plans to expand its global influence through the HK Tech 300 International Start-up Competition.

為促進區域知識產權保護與合作，城大於2024年12月聯合主辦首屆「深港知識產權論壇」，並舉行「國家知識產權營運（深圳河套）轉化試點平台」設立儀式，全面配合國家推動新質生產力及知識產權的發展策略。

年內，城大旗艦創新創業計劃HK Tech 300培育的初創企業，持續為社會及業界帶來顯著效益。近300家初創企業的創新成果在2025年5月首度舉辦的創新創業博覽「HK Tech 300 Expo」中亮相，城大在活動上亦宣布計劃透過「HK Tech 300國際創新創業千萬大賽」，擴展全球影響力。

Achievements at International Invention Exhibitions

At the 50th International Exhibition of Inventions Geneva, CityUHK researchers garnered a total of 33 awards: one Special Prize, five Gold Medals with the Congratulations of the Jury, nine Gold Medals, 16 Silver Medals and two Bronze Medals.

At the 4th Asia Exhibition of Innovations and Inventions Hong Kong, CityUHK secured 25 awards: two Special Prizes, 12 Gold Medals, nine Silver Medals and two Bronze Medals—ranking highest among all Hong Kong universities.

揚威國際發明展

城大研究人員於第50屆日內瓦國際發明展囊括33個獎項，包括一項特別獎、五項評審團嘉許金獎、九項金獎、16項銀獎和兩項銅獎。

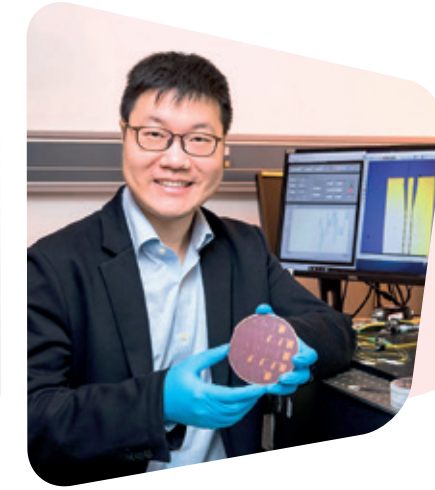
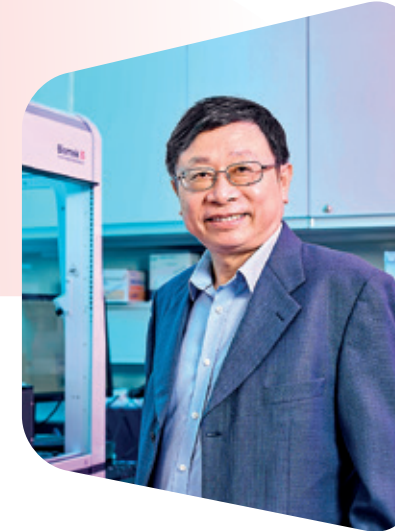
城大在第四屆亞洲創新發明展覽會—香港榮獲25個獎項，包括兩項特別獎、12項金獎、九項銀獎和兩項銅獎，為全港大學之冠。

The CityUHK teams made their debut at the Silicon Valley International Invention Festival 2024, attaining five awards: one Semi-Grand Prix and four Gold Medals.

城大團隊首度參與2024年矽谷國際發明節，勇奪五個獎項，包括一項特別大獎及四項金獎。



(From left) Professor Huang Yu and Professor Wang Cheng
(左起) 黃聿教授與王聘教授



Global Recognition

Researchers at CityUHK have received numerous prestigious national and international accolades, underscoring their significant contributions to various fields. In 2025, Professor Huang Yu, Jeanie Hu Professor of Biomedical Sciences, Chair Professor of Biomedical Sciences and Vascular Biology and Head of the Department of Biomedical Sciences, was elected a Foreign Member of the Academia Europaea, recognising his outstanding research achievements. Moreover, Professor Michael Yang Mengsu, Yeung Kin Man Chair Professor of Biomedical Sciences, was honoured as a Fellow of the National Academy of Inventors in 2024 for his groundbreaking innovations in biotechnology.

Other notable recognitions include Professor Hu Jinlian, Chair Professor of the Department of Biomedical Engineering, who received the 15th Guanghua Engineering Science and Technology Prize from the Chinese Academy of Engineering. Additionally, two Senior Fellows of the Hong Kong Institute for Advanced Study, renowned physicists Professor Xue Qikun and Professor Sir John B. Pendry, were awarded the State Pre-eminent Science and Technology Award for 2023 and the 2024 Kyoto Prize in Advanced Technology respectively, in acknowledgment of their outstanding contributions to technological innovation.

In support of emerging scholars, Professor Xu Jijian from the Department of Chemistry was honoured with the Croucher Tak Wah Mak Innovation Award by the Croucher Foundation in 2025, while Professor Wang Cheng from the Department of Electrical Engineering received the 2024 Alibaba DAMO Academy Young Fellow Award for his pioneering research on microwave photonic chips.

享譽全球

城大研究人員屢獲國家級及國際殊榮，彰顯他們在各自學科領域的卓越貢獻。胡梁子慧生物醫學教授、生物醫學及血管生物學講座教授、生物醫學科學系主任黃聿教授，於2025年膺選為歐洲科學院外籍院士，以表彰他在其學術領域的傑出成就。此外，楊建文講座教授（生物醫學）楊夢甦教授於2024年獲選為美國國家發明家科學院院士，表揚其在生物醫學技術領域的創新發明的成就。

其他重要獎項及殊榮包括中國工程院第十五屆光華工程科技獎，得主為生物醫學工程學系講座教授胡金蓮教授。此外，城大香港高等研究院兩位資深院士兼著名物理學家薛其坤教授和 John B. Pendry 爵士教授，分別榮獲2023年度國家最高科學技術獎和2024年京都獎（尖端技術類別），以表彰他們在科技創新領域的傑出貢獻。

為鼓勵青年學者，裘槎基金會向化學系徐吉健教授頒發2025年裘槎麥德華前瞻科研大獎，而電機工程學系王聘教授憑微波光子芯片的開創性研究，榮獲2024年阿里巴巴達摩院青橙獎。