

UNIVERSITY OF MACAU ANNUAL REPORT
澳門大學年度簡報
2020/2021





University of Macau Annual Report 2020/2021

澳門大學年度簡報 2020/2021

- 03 **Statistics**
統計數字
- 04 Numbers of Students
學生人數
- 04 Numbers of Graduates
畢業生人數
- 05 Numbers of Full-time Academic Staff
全職教學人員人數
- 05 Numbers of Administrative Staff
行政人員人數
- 06 University Budget
大學預算
- 06 Published Papers
論文發表
- 07 **Programmes**
課程
- 12 **Academic Accomplishments**
學術成就
- 23 **Scholarships, Fellowships, and Academic Prizes**
獎學金、助學金及學術獎項

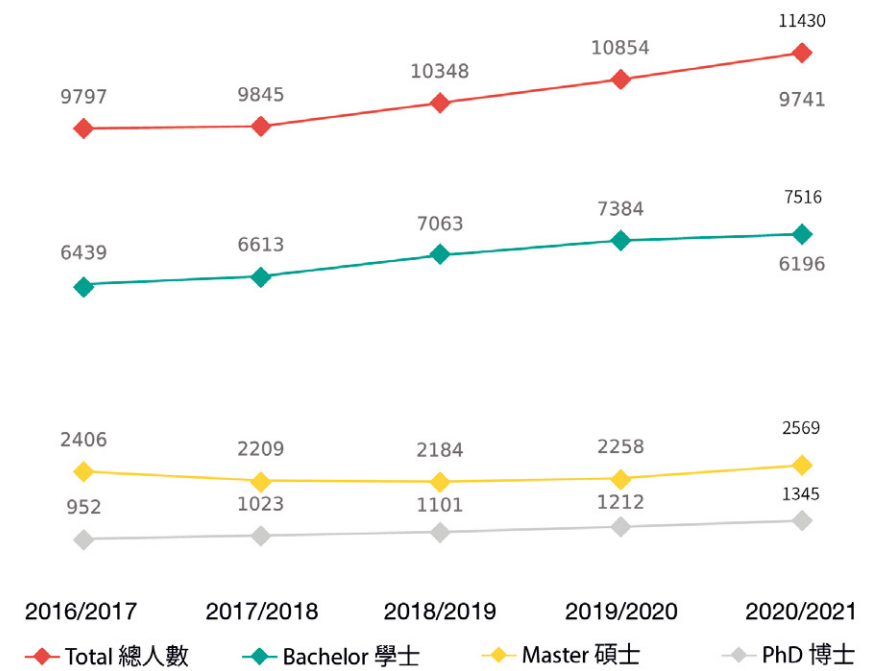


STATISTICS

統計數字

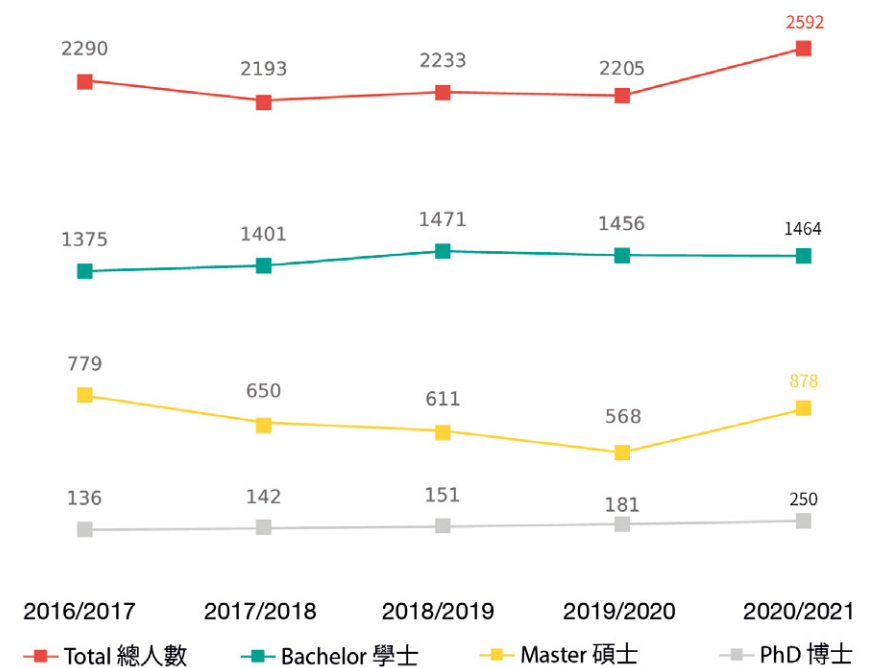
Numbers of Students

學生人數

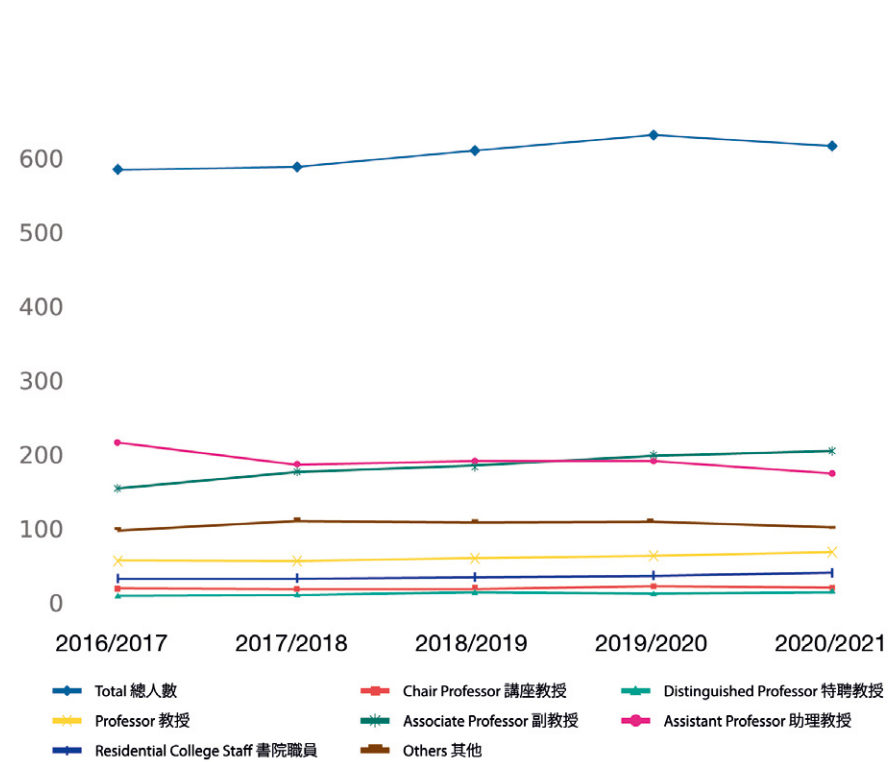


Numbers of Graduates

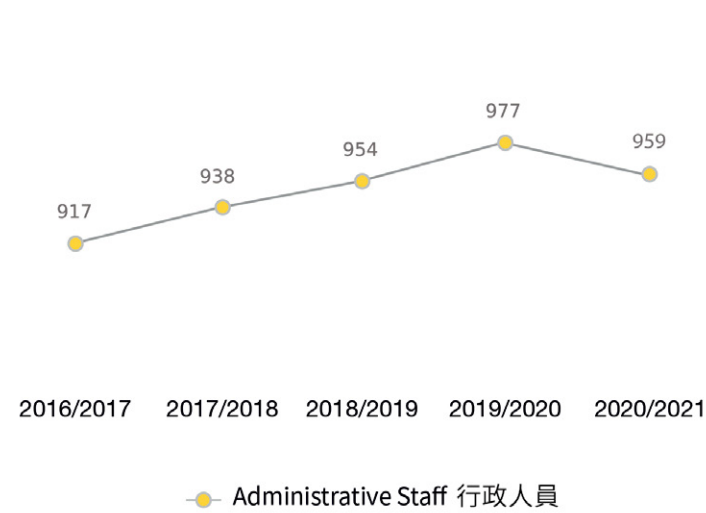
畢業生人數



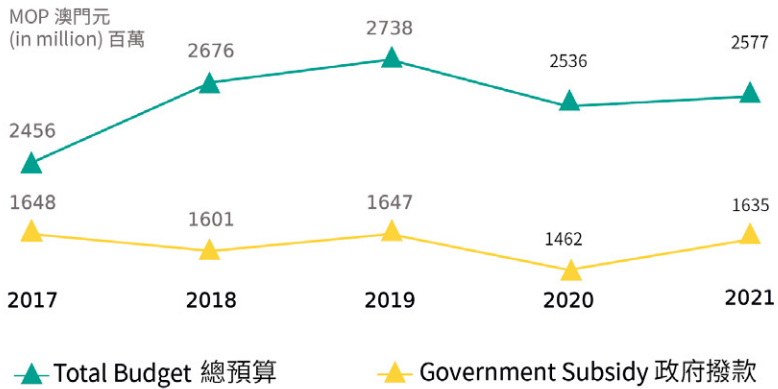
Numbers of Full-time Academic Staff
全職教學人員人數



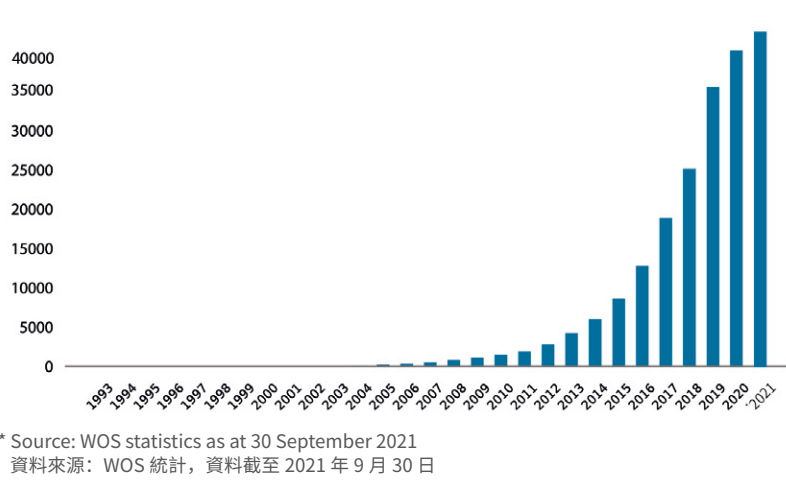
Numbers of Administrative Staff
行政人員人數



University Budget
大學預算

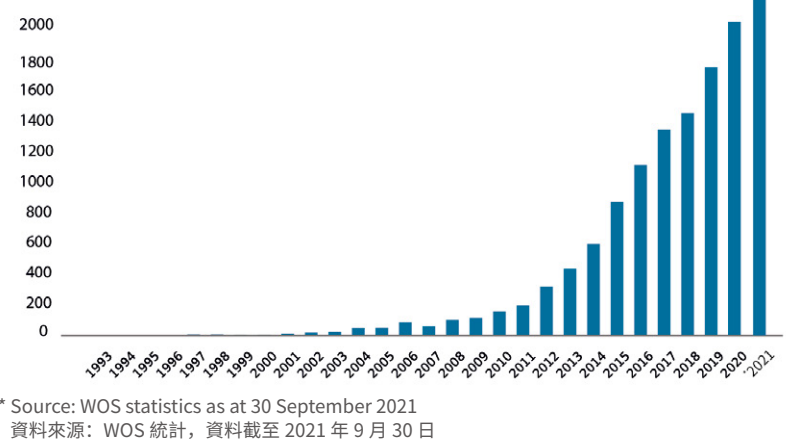


Yearly Citation Frequency of Journal Papers
每年期刊論文被引用次數



* Source: WOS statistics as at 30 September 2021
資料來源：WOS 統計，資料截至 2021 年 9 月 30 日

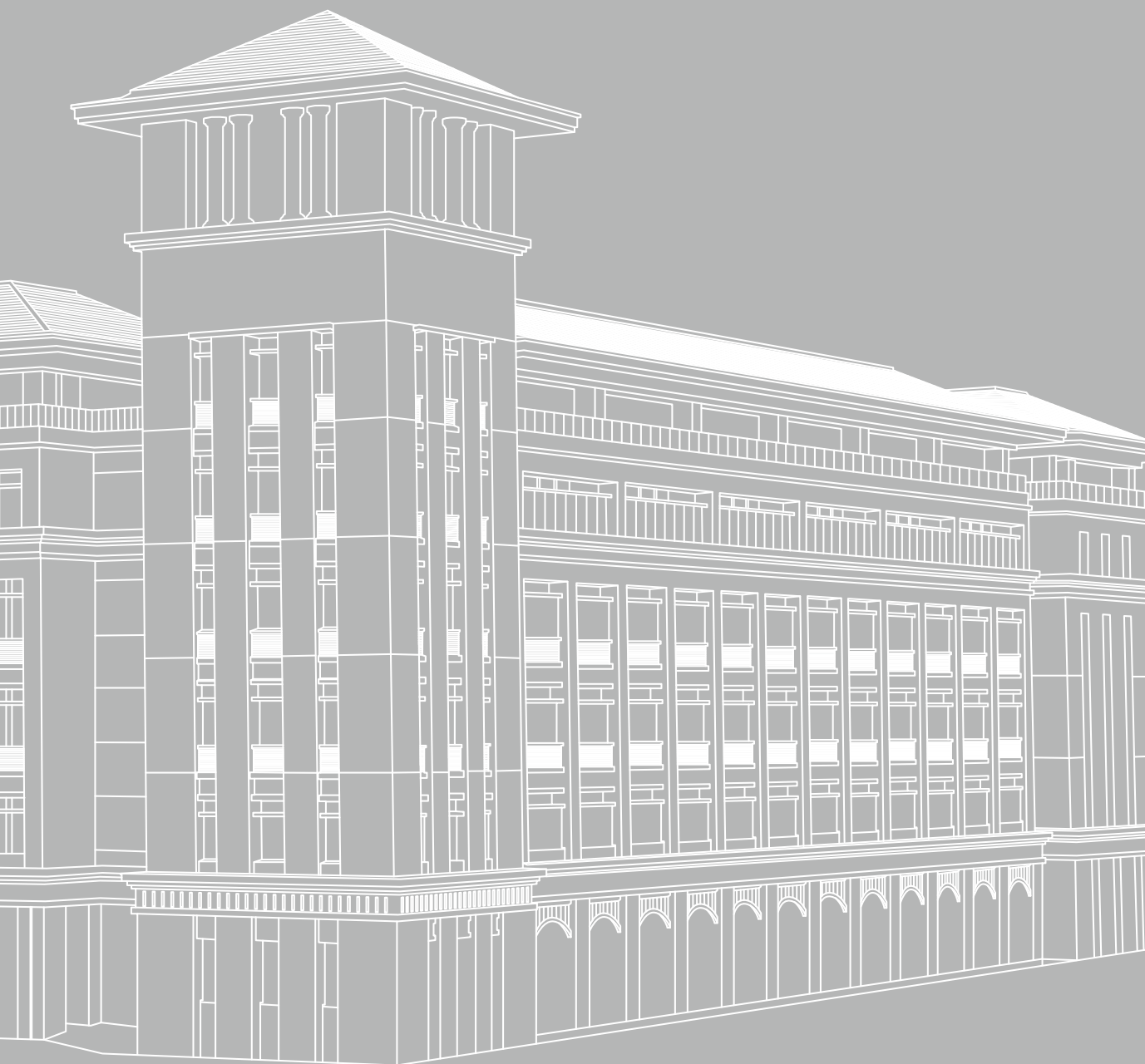
Yearly Number of Published Journal Papers
每年期刊論文發表數量



* Source: WOS statistics as at 30 September 2021
資料來源：WOS 統計，資料截至 2021 年 9 月 30 日

PROGRAMMES

課程



Faculty of Arts and Humanities

人文學院

Bachelor of Arts in Chinese Language and Literature

文學士（中國語言文學）

Bachelor of Arts in English Studies

文學士（英語研究）

Bachelor of Arts in History

文學士（歷史學）

Bachelor of Arts in Japanese Studies

文學士（日本研究）

Bachelor of Arts in Portuguese Studies

文學士（葡語研究）

Master of Arts in English Studies

文學碩士（英語研究）

Master of Philosophy in Chinese Linguistics

哲學碩士（漢語語言學）

Master of Philosophy in Chinese Literature

哲學碩士（中國文學）

Master of Philosophy in Portuguese Language and Intercultural Studies

哲學碩士（葡萄牙語言及跨文化研究）

Master of Arts in Translation Studies

文學碩士（翻譯）

Master of Arts in Second Language Acquisition

文學碩士（第二語言習得）

Master of Arts in History

文學碩士（歷史學）

Master of Arts in Chinese History and Culture

文學碩士（中國歷史文化）

Doctor of Philosophy in History

哲學博士（歷史學）

Doctor of Philosophy in Linguistics (Chinese)

哲學博士（語言學－漢語）

Doctor of Philosophy in Linguistics (English)

哲學博士（語言學－英語）

Doctor of Philosophy in Applied Linguistics (Portuguese)

哲學博士（應用語言學－葡語）

Doctor of Philosophy in Literary Studies (Chinese)

哲學博士（文學－中文）

Doctor of Philosophy in Literary Studies (English)

哲學博士（文學－英文）

Doctor of Philosophy in Literary and Intercultural Studies (Portuguese)

哲學博士（文學及跨文化研究－葡文）

Doctor of Philosophy in Philosophy and Religious Studies

哲學博士（哲學及宗教學）

Faculty of Business Administration

工商管理學院

Bachelor of Business Administration

工商管理學士

Bachelor of Science in Accounting

理學士（會計學）

Bachelor of Science in Business Intelligence and Data Analytics

理學士（商業智能與數據分析）

Bachelor of Science in Finance

理學士（金融學）

Bachelor of Science in International Integrated Resort Management

理學士（國際綜合度假村管理）

Master of Business Administration

工商管理碩士

Master of Science in Accounting

理學碩士（會計學）

Master of Science in Finance

理學碩士（金融學）

Master of Science in International Integrated Resort Management	理學碩士（國際綜合度假村管理）
Executive Master of Business Administration	高級管理人員工商管理碩士
Doctor of Business Administration	工商管理博士
Doctor of Philosophy in Business Administration	哲學博士（工商管理）
Faculty of Education	教育學院
Bachelor of Education in Chinese	教育學士（中文）
Bachelor of Education in English	教育學士（英文）
Bachelor of Education in Intergrated Science	教育學士（綜合科學）
Bachelor of Education in Mathematics	教育學士（數學）
Bachelor of Education in Pre-Primary Education	教育學士（學前教育）
Bachelor of Education in Primary Education	教育學士（小學教育）
Postgraduate Certificate in Education (Secondary Education)	學士後教育證書（中學教育）
Postgraduate Certificate in Education (Primary Education)	學士後教育證書（小學教育）
Postgraduate Certificate in Education (Pre-Primary Education)	學士後教育證書（幼兒教育）
Master of Philosophy in Curriculum and Instruction	哲學碩士（課程與教學）
Master of Philosophy in Educational Administration	哲學碩士（教育行政）
Master of Philosophy in Early Childhood Education and Child Development	哲學碩士（幼兒教育與兒童發展）
Master of Philosophy in Physical Education and Sport Studies	哲學碩士（體育教學及運動）
Master of Philosophy in Educational Psychology	哲學碩士（教育心理學）
Doctor of Philosophy in Education	哲學博士（教育學）
Faculty of Health Sciences	健康科學學院
Bachelor of Science in Biomedical Sciences	理學士（生物醫藥學）
Bachelor of Science in Bioinformatics	理學士（生物信息學）
Doctor of Philosophy in Biomedical Sciences	哲學博士（生物醫藥）
Faculty of Law	法學院
Bachelor of Law in Chinese Language (Daytime)	中文授課之法學士（日間）
Bachelor of Law in Chinese Language (Five-year Evening)	中文授課之法學士（五年制夜間）

Bachelor of Law (Conducted in Chinese and Portuguese Five-year Daytime)	中葡雙語授課之法學士（五年制日間）
Bachelor of Law in Portuguese Language (Five-year Evening)	葡語授課之法學士（五年制夜間）
Introduction to Macau Law	澳門法律導論課程
Master of Law (Chinese Language)	法學碩士（中文）
Master of Law in International Business Law (English Language)	法學碩士－國際商法（英文）
Master of Law in European Union Law, International Law and Comparative Law (English Language)	法學碩士－歐盟法、國際法及比較法（英文）
Master of Law (Portuguese Language)	法學碩士（葡文）
Master of Law in Legal Translation	法學碩士（法律翻譯）
Master of Law in Macau Law and Practice	法學碩士（澳門法實務）
Doctor of Philosophy in Law	哲學博士（法學）
Faculty of Social Sciences	社會科學學院
Bachelor of Social Sciences in Communication	社會科學學士（傳播學）
Bachelor of Social Sciences in Economics	社會科學學士（經濟學）
Bachelor of Social Sciences in Government and Public Administration	社會科學學士（政府與公共行政）
Bachelor of Social Sciences in Psychology	社會科學學士（心理學）
Bachelor of Social Sciences in Sociology	社會科學學士（社會學）
Master of Arts in Communication and New Media	文學碩士（傳播與新媒體）
Master of Social Sciences in International Relations and Public Policy	社會科學碩士（國際關係及公共政策）
Master of Social Sciences in European Studies	社會科學碩士（歐洲事務）
Master of Social Sciences in Public Administration	社會科學碩士（公共行政）
Master of Social Sciences in Criminology and Criminal Justice	社會科學碩士（犯罪學與刑事司法）
Master of Social Sciences in Economics	社會科學碩士（經濟學）
Master of Philosophy in Macao Studies	哲學碩士（澳門研究）
Doctor of Philosophy in Communication	哲學博士（傳播學）
Doctor of Philosophy in Economics	哲學博士（經濟學）
Doctor of Philosophy in Psychology	哲學博士（心理學）
Doctor of Philosophy in Sociology	哲學博士（社會學）
Doctor of Philosophy in Public Administration	哲學博士（公共行政）
Doctor of Philosophy in Political Science	哲學博士（政治學）

Faculty of Science and Technology

科技學院

Bachelor of Science in Applied Physics and Chemistry
Bachelor of Science in Civil Engineering
Bachelor of Science in Computer Science
Bachelor of Science in Electrical and Computer Engineering
Bachelor of Science in Electromechanical Engineering
Bachelor of Science in Mathematics

理學士（應用物理及化學）
理學士（土木工程）
理學士（計算機科學）
理學士（電機及電腦工程）
理學士（機電工程）
理學士（數學）

Master of Science in Civil Engineering
Master of Science in E-Commerce Technology
Master of Science in Electrical and Computer Engineering
Master of Science in Electromechanical Engineering
Master of Science in Computer Science
Master of Science in Mathematics

理學碩士（土木工程）
理學碩士（電子商貿技術）
理學碩士（電機及電腦工程）
理學碩士（機電工程）
理學碩士（計算機科學）
理學碩士（數學）

Doctor of Philosophy in Civil Engineering
Doctor of Philosophy in Electrical and Computer Engineering
Doctor of Philosophy in Electromechanical Engineering
Doctor of Philosophy in Computer Science
Doctor of Philosophy in Mathematics

哲學博士（土木工程）
哲學博士（電機及電腦工程）
哲學博士（機電工程）
哲學博士（電腦科學）
哲學博士（數學）

Institute of Applied Physics and Materials Engineering

應用物理及材料工程研究院

Doctor of Philosophy in Applied Physics and Materials Engineering

哲學博士（應用物理及材料工程）

Institute of Chinese Medical Sciences

中華醫藥研究院

Master of Philosophy in Chinese Medicinal Science
Master of Philosophy in Medicinal Administration

哲學碩士（中藥學）
哲學碩士（醫藥管理）

Doctor of Philosophy in Biomedical Sciences

哲學博士（生物醫藥）

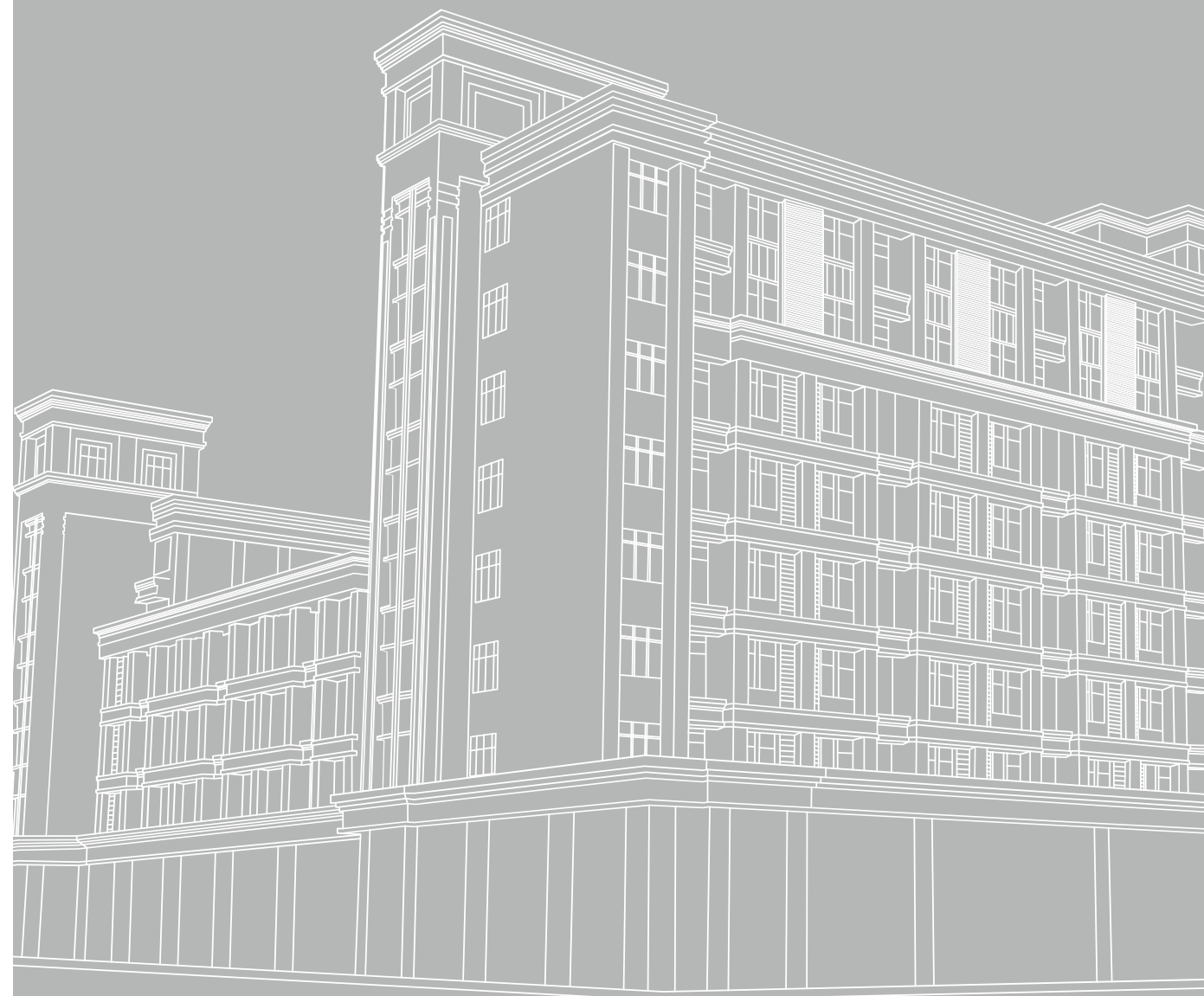
Institute of Collaborative Innovation

協同創新研究院

Master of Science in Data Science

理學碩士（數據科學）

ACADEMIC ACCOMPLISHMENTS 學術成就



Chair Professor Yonghua Song received the Science and Technology Progress Award from the Ho Leung Ho Lee Foundation in recognition of his contributions to the field of electric power systems.

宋永華講座教授獲頒「何梁何利基金科學與技術進步獎」，以表彰其於電力系統領域的卓越貢獻。

Tang Zikang, chair professor and director of the Institute of Applied Physics and Materials Engineering (IAPME), received the 13th Guanghua Engineering Science and Technology Prize from the Chinese Academy of Engineering.

應用物理及材料工程研究院院長湯子康講座教授獲中國工程院頒發「第 13 屆光華工程科技獎」。

Prof Li Shaoping, deputy director and Distinguished Professor in the State Key Laboratory of Quality Research in Chinese Medicine (SKL-QRCM), entered the *The Power List 2020: Around the World in 60 Scientists*, released by The Analytical Scientist. He is the only scholar from Macao to have entered the list.

中藥質量研究國家重點實驗室副主任李紹平特聘教授入選英國《分析科學家》公佈的 2020 年「世界最具影響力 60 位分析科學家」名單，是該榜單 2013 年第一次發佈以來首位上榜的中藥質量研究專家。

Wang Ruibing, associate professor in the Institute of Chinese Medical Sciences (ICMS), was elected a fellow of the Royal Society of Chemistry in the United Kingdom, for his contributions to chemical science and biomedicine as a professional chemist. Prof Wang is the second scholar from UM to receive this honour.

中華醫藥研究院副教授王瑞兵當選英國皇家化學會會士，彰顯其在化學和生物醫藥領域的卓越貢獻，是澳大第二位獲此榮銜的學者。

Wang Chunming, associate professor in the ICMS, was elected a fellow of the Royal Society of Biology in the United Kingdom and a fellow of the Royal Society of Chemistry in the United Kingdom. He was also awarded the Outstanding Youth Science Fund by the National Natural Science Fund of China.

中華醫藥研究院副教授王春明當選英國皇家生物學會會士、英國皇家化學會會士，並獲國家自然科學基金委員會頒發「優秀青年科學基金」。

UM received approval from the Ministry of Education to establish a centre for cutting-edge scientific research in precision oncology. It will be the first cutting-edge scientific research centre in Hong Kong and Macao.

澳大獲教育部批准立項建設「精準腫瘤學前沿科學中心」，是香港和澳門首個前沿科學中心。

UM inaugurated a research and development centre for Chinese medicine and translational medicine under the Zhuhai UM Science & Technology Research Institute.

珠海澳大科技研究院中華醫藥及轉化醫學研發中心啟用。

UM launched Macao's first Autonomous Driving Bus Testing Platform, marking that the first autonomous bus has become operational in Macao.

澳大啟動「澳門自動駕駛巴士測試平台」，標誌著澳門首台自動駕駛巴士正式啟用。

A team led by Faculty of Health Sciences (FHS) Assistant Professor Shao Ningyi, and researchers at Stanford University and MD Anderson Cancer Center achieved a breakthrough in their collaborative research on lung cancer. They found that the gene NSD3 is involved in the tumourigenesis of squamous cell lung cancer, and that NSD3 may be an effective target for the treatment of this type of cancer. The study was published in *Nature*.

健康科學學院助理教授邵寧一團隊、史丹福大學和安德森癌症中心合作在肺癌研究中取得突破。研究團隊發現 NSD3 蛋白參與肺鱗狀細胞癌的腫瘤發生過程，並揭示了 NSD3 可能是治療肺鱗狀細胞癌的有效靶點。成果獲《自然》刊登。

UM Library held a book launch for the 14-volume book, *Series of Centennial History of New Culture in China*, compiled by Zhu Shoutong, director of the Centre for Chinese History and Culture.

中國歷史文化中心主任朱壽桐教授主持編撰的《中國新文化百年史叢書》（共 14 卷）在澳大圖書館的博雅新書發佈活動發行。

Beatriz Puente-Ballesteros, assistant professor in the Department of History, was named a recipient of the 2021 J Worth Estes Prize at the annual meeting of the American Association for the History of Medicine.

歷史系助理教授白雅詩在美國醫療史學會年度會議獲頒授 2021 年 J. Worth Estes 獎。

Tang Yi, a master's student in the Department of English, won a first prize at the 'One Hundred Translators' Translation Contest.

英文系碩士生唐儀在第 10 屆「全球百人百譯」翻譯大賽奪一等獎。

Seng Heng Bank: History and Acquisition by Industrial and Commercial Bank of China, a book co-authored by Patrick Huen Wing Ming, vice-chairman and executive director of the Industrial and Commercial Bank of China (Macao); Chair Professor Jean Chen, dean of the Faculty of Business Administration (FBA); and Liu Minghua, associate professor in the Department of Finance and Business Economics, was published.

中國工商銀行（澳門）股份有限公司副董事長禰永明、工商管理學院院長陳靖涵講座教授和金融及商業經濟學系副教授劉明華合撰的《誠興銀行發展史及中國工商銀行成功收購誠興銀行的事跡》出版。

Prof Jason Xiao, head of the Department of Accounting and Information Management, and Prof Wenxuan Hou at the University of Edinburgh, were appointed joint-editors of *British Accounting Review*.

會計及資訊管理學系主任蕭澤忠教授與英國愛丁堡大學教授侯文軒獲委任為《英國會計評論》聯席主編。

Ronnel B King, associate professor in the Faculty of Education (FED), was recognised as one of the top 2 per cent of researchers in education out of approximately 58,000 education researchers, according to the Scopus database.

根據 Scopus 數據庫，教育學院副教授 Ronnel B. King 在約 58,000 名教育研究人員中排名前百分之二。

Teams led by FHS professor Edwin Cheung, Southern University of Science and Technology professors Hou Chunhui and Chen Yonglong, and Huazhong Agricultural University professor Li Li reported discoveries on the establishment of three-dimensional genome structures during *Xenopus tropicalis* embryonic development. The research results will help people better understand the various defects and diseases caused by genetic abnormalities, such as the occurrence of cancer. The study was published in *Nature Genetics*.

健康科學學院教授張仲榮、南方科技大學副教授侯春暉和陳永龍、華中農業大學教授李立的團隊發現熱帶爪蟾胚胎發育過程中基因組三維結構的動態變化。成果有助深入瞭解癌症等由於基因異常而導致的各種缺陷和疾病，獲《自然-遺傳學》刊登。

A team led by Associate Professor Xu Xiaoling in the FHS discovered a tumour evolution process, through which the tumours initiate from cells with single nucleotide variants (SNVs) by performing simultaneous SNV and copy number variation analysis. The team also identified a novel tumour metastasis suppressor, PLEKHA5, whose deficiency promotes cancer metastasis to the liver and/or lung. The study was published in *Nature Communications*.

健康科學學院副教授徐曉玲的團隊運用全外顯子測序技術，同時對 BRCA1 缺陷的乳腺組織和腫瘤進行單細胞的單核苷酸突變和拷貝數變異分析，揭示腫瘤的進化過程。團隊更發現新的乳腺癌轉移抑制基因 PLEKHA5，該基因的缺失會促進乳腺癌的轉移，成果獲《自然通訊》刊登。

A team led by Dai Yunlu, assistant professor in the FHS, designed and synthesised a versatile H2S nano-modulator, which can down-regulate the hyperactive photo-thermal immunity for combination cancer therapy. The study was published in *Advanced Materials*.

Under the guidance of FHS Assistant Professor Leo Lee Tsz On and Associate Professors Xie Ruiyu and Liu Tzu-Ming, a team of students won a gold medal at the International Genetic Engineered Machine Competition, for the second consecutive year. The team was also ranked among the top five in the Environment Track of the competition. This year's event attracted 249 teams from more than 40 countries and regions.

Prof Tu Guangjian and his PhD student Chen Zhi in the FLL received a second prize at the Eighth 'Zhong Lun Cup' Research Paper Competition on International Commercial Arbitration, for their co-authored paper titled 'Parallel Proceedings between International Commercial Arbitration and Litigation: The Way for China to Go'.

Chair Professor Chang Lei, head of the Department of Psychology, and Prof Todd Jackson in the same department, were named among the top 2 per cent of scientists in a global ranking list released by Stanford University.

Distinguished Professor Angus C Chu, head of Department of Economics and project leader of Asian Economics in the Asia-Pacific Academy of Economics and Management, was elected editor of *Economic Modelling*.

A research article titled 'Explaining Urban Economic Governance: The City of Macao', authored by Prof Sheng Li, associate dean of the Faculty of Social Sciences (FSS) and professor in the Department of Government and Public Administration, received a second prize in the research paper category of the Eighth Award for Outstanding Achievements in Scientific Research in Higher Education (Humanities and Social Sciences) from the Ministry of Education.

Public Relations in China: Thirty Years of Observation and Research, a book by Prof Chen Ni in the Department of Communication, was published by the City University of Hong Kong Press.

健康科學學院助理教授代雲路帶領的團隊設計及合成出一種多功能硫化氫納米調節劑，可緩解癌症光熱治療的炎症反應，成果獲《先進材料》刊登。

健康科學學院助理教授李子安、副教授謝瑞瑜及副教授劉子銘指導的學生隊伍在「2020 國際基因工程機器大賽」與 40 多個國家和地區共 249 支隊伍較量，奪得金獎，也在環保組別躋身前五強。

法學院教授涂廣建及其博士生陳摯合撰的論文《論國際民商事仲裁與訴訟平行程式：我國應採取的路徑和對策》於第八屆「中倫杯」全國國際商事仲裁徵文大賽中奪二等獎。

心理學系主任張雷講座教授與同系教授 Todd Jackson 入選美國史丹福大學發佈的全球前 2% 頂尖科學家榜單，入選領域是心理學／認知科學。

經濟學系主任、亞太經濟與管理研究所亞洲經濟首席研究員朱智豪特聘教授當選《Economic Modelling》主編。

社會科學學院副院長、政府與行政學系教授盛力的獨著論文《Explaining Urban Economic Governance: The City of Macao》獲教育部頒發第八屆高等學校科學研究優秀成果獎（人文社會科學）的著作論文類二等獎。

傳播系教授陳霓新書《公共關係在中國：三十年的觀察與研究》2021 年由香港城市大學出版社出版。

Agnes Lam, director of the Centre for Macau Studies and associate professor in the Department of Communication, received a second prize at the Eighth Award for Outstanding Scientific Research in Higher Education (Humanities and Social Sciences), for her book titled 'The Beginning of the Modern Chinese Press History – Macao Press History 1557-1840'.

Six undergraduate students in the Department of Sociology, led by the department head Associate Professor Xu Jianhua, conducted a study on the stigmatisation, discrimination, and hate crimes against various population groups in Chinese-speaking communities during the COVID-19 pandemic. The study was published in the *Asian Journal of Criminology*.

A group of fourth-year students in the Department of Communication won three awards for their graduation publications, namely *UM Bridges Fall 2019: SONDER*, and *Communicator 2020: A Tale of Macau During Pandemic*, at the 2020 Campus Newspaper Awards organised by *China Daily* (Hong Kong Edition). Under the guidance of Prof Wu Mei in the Department of Communication, the former publication won a second prize in the Best in News Reporting (English Category) and a third prize in the Best in News Writing (English Category). The latter publication won a third prize in Layout Design (Chinese Category) under the guidance of Dr Che Hio leong, senior instructor in the same department.

A team led by Associate Professor Zhou Jiantao, interim head of the Centre for Artificial Intelligence and Robotics, developed a new algorithm for digital image tampering detection. With this technology, the team competed with 1,534 teams at the Security AI Challenger Contest (Season 5) and won the championship in the tampering track and a third prize in the detection track. In addition, the team was invited by Alibaba to participate in one of its innovative research projects.

Under the guidance of Liu Zhi, associate professor in the Department of Mathematics, two student teams won a first prize and a second prize, respectively, in the Interdisciplinary Contest in Modeling 2021 in the United States, making UM the only higher education institution from Macao to win a first prize in this event.

A team led by Prof Zhong Junwen, assistant professor in the FST and member of the Centre for Artificial Intelligence and Robotics, developed robotic insects that are only three-centimetre long with ultrahigh agility and a controlled trajectory. The study was published in *Science Robotics*.

澳門研究中心主任、傳播系副教授林玉鳳獨著的《中國近代報業的起點——澳門新聞出版史（1557-1840）》獲教育部頒發第八屆高等學校科學研究優秀成果獎（人文社會科學）的著作論文類二等獎。

社會學系主任徐建華副教授帶領該系六名本科生分析在華語世界由新冠肺炎疫情掀起、針對不同群體的污名化、歧視與仇恨犯罪現象，成果獲《亞洲犯罪學期刊》刊登。

傳播系四年級學生畢業刊物《UM Bridges Fall 2019: SONDER》於《中國日報香港版》舉辦的「2020 校園學報新聞獎」奪得最佳新聞寫作（英文）季軍及最佳新聞報導（英文）亞軍，指導老師為傳播系教授吳玫，另一畢業刊物《傳人類 2020 全城抗疫記》在同一賽事獲最佳學報設計（中文）季軍，指導老師為傳播系高級導師謝曉陽。

人工智能與機器人研究中心代主任周建濤副教授帶領的團隊研發出一項新的圖像篡改檢測技術算法，以此參加全球首個針對偽造證件類圖像的檢測比賽「安全 AI 挑戰者賽（第五期）」，與 1,534 支團隊切磋，奪得篡改賽道冠軍及檢測賽道季軍。團隊其後獲阿里巴巴邀請和贊助參與其創新研究計劃專案。

在數學系副教授劉志指導下，兩支學生隊伍於「2021 年美國國際大學生數學建模競賽」的交叉學科建模競賽奪得一等獎及二等獎，澳大是唯一在該比賽獲一等獎的澳門院校。

科技學院助理教授、人工智能與機器人研究中心成員鍾俊文及其團隊研製身長僅三厘米、具高敏捷性與可操控性的電子昆蟲機械人，成果獲《科學・機械人學》刊登。

A team of postgraduate students in the FST received a first prize in the first Zhuhai Wanshan International Intelligent Vessel Competition with their autonomous navigation technology for unmanned surface vessels.

South China Quarterly, an academic journal in humanities and social sciences published by UM, was ranked No 3 in sharing rate among all academic journals published by Chinese higher education institutions in 2020.

Richard Fitzgerald, senior research fellow in the Institute of Advanced Studies in Humanities and Social Sciences and professor in the Department of Communication, published a research article in *Discourse, Context and Media*, with the support of the institute's Excellent Publication Scheme.

Researchers of the IAPME, the Hong Kong Polytechnic University, and King Abdullah University of Science and Technology realised, for the first time, the regulation of the cooling rate of hot carriers in the CsPbI₂Br perovskite films through the strategy of Zn ion doping, which can further improve the light-to-electricity conversion efficiency of the perovskite solar cells. The study was published in *Angewandte Chemie International Edition*. The first authors of the study are Wei Qi, postdoctoral researcher at UM, and Yin Jun, postdoctoral researcher at KAUST.

IAPME and Nanjing Tech University developed a method to prepare phase-pure quasi-two-dimensional metal-halide perovskites, which could be used for constructing stable perovskite solar cells. The study was completed under the guidance of IAPME Associate Professor Xing Guichuan, and Nanjing Tech University professors Huang Wei and Chen Yonghua. Assistant Professor Chen Shi in the IAPME also made important contributions to this project. This study was published by *Nature Energy*.

A team led by Zhou Bingpu, assistant professor in the IAPME, developed a stretchable, translucent, and durable superhydrophobic film that is cheap, easy to produce, and environmentally friendly. The team also designed a novel hybrid dielectric that simultaneously enables high sensitivity and ultra-wide linearity range of wearable and flexible capacitive/triboelectric tactile sensors. The study was published in *Advanced Functional Materials*.

科技學院研究生團隊研發的無人船艇人工智能技術於首屆珠海萬山國際智能船艇公開賽中獲得「揚帆起航」項目賽冠軍。

澳大出版的人文社科類學術期刊《南國學術》在「2020 年度複印報刊資料轉載率排名」的「高等院校主辦學報排名」位列第三。

在人文社科高等研究院的卓越出版計劃支持下，該院資深駐院學人、傳播系教授 Richard Fitzgerald 在《Discourse Context Media》發表論文。

應用物理及材料工程研究院、香港理工大學和沙特阿拉伯阿卜杜拉國王科技大學以典型的 CsPbI₂Br 鈣鈦礦薄膜為研究物件，首次通過 Zn 離子摻雜的策略，調控 CsPbI₂Br 鈣鈦礦薄膜中熱載流子的冷卻速率。成果有助製造更有效的鈣鈦礦太陽能電池，獲《德國應用化學》刊登。文章的第一作者是澳大博士後研究員魏琪和阿卜杜拉國王科技大學博士後研究員殷俊。

應用物理及材料工程研究院副教授邢貴川與南京工業大學教授黃維和陳永華的團隊開發純相準二維鈣鈦礦材料製備技術，能製造高效穩定的太陽能電池器件。該院助理教授陳石也對此作出重要貢獻。成果獲《自然能源》刊登。

應用物理及材料工程研究院助理教授周冰樸帶領團隊研發出可拉伸、半透明及耐用的超疏水柔性薄膜，成果獲《先進功能材料》刊登。周教授的團隊也設計出一種新的複合介電體，並對穿戴式柔性電容式觸覺傳感器的高靈敏度和超寬線性範圍作同步優化。成果獲《先進材料》刊登。

A joint team, formed by researchers of UM, Wuhan University, Beijing Normal University, the University of Hong Kong, and the University of Birmingham, proposed a groundbreaking image encryption scheme that uses a single metasurface as a reusable generator of different keys to encode various secret images in a computational way. The study was published online in *Science Advances*, a sub-publication of *Science*. Zheng Peixia, a doctoral student in the IAPME, is the first author of the study.

Cai Yongqing, assistant professor in the IAPME, received the Excellent Young Scientists Fund from the National Natural Science Foundation of China.

UM, Shenzhen University, and the University of Southern Queensland designed a quasi-solid-state thermoelectrochemical cell using the polyacrylamide/acidified single-walled carbon nanotube composite hydrogel with tin(IV) chloride/tin(II) chloride as the redox couple. Combining the excellent strain sensitivity with the effective heat-to-electricity conversion capability, an energy-autonomous strain sensor was further assembled. The study was published in *Materials Horizons*. Liang Lirong, a doctoral student in the IAPME, is the first author of the study.

Prof Zheng Ying's team in the ICMS discovered that a nanoparticle uptake and translocation by the skin and lymphatic system play a key role in the treatment of immunerelated skin disorders, and the size of drug carriers has a certain effect on the outcome. The finding provides new insights for the development of new drugs for psoriasis. The study was published in *Acta Pharmaceutica Sinica B*.

A team led by Full Professor Leung Chung Hang and Associate Professor Lin Ligen in the ICMS, and another team led by Associate Professor Ma Dik Lung in the Department of Chemistry at Hong Kong Baptist University designed and synthesised a new stabiliser, which can accelerate diabetic wound closure and has the potential for treating diabetic foot. The study was published in *Nature Communications*.

A team led by Prof Lin Ligen in the ICMS, in collaboration with several research institutions in mainland China and the United States, discovered, for the first time, the novel role of the deacetylase SIRT3 in regulating lipid mobilisation and stability for protecting hepatocytes against lipotoxicity. This study provides a potential new target for treating non-alcoholic fatty liver disease and was published in *Cell Death & Differentiation*.

澳大、武漢大學、北京師範大學、香港大學和伯明罕大學組成的團隊提出新的圖像加密方案，利用單個超表面作為可重複使用的密鑰生成器，有效減輕常規加密中海量信息傳輸的負擔，同時避免信息在傳統的數字傳輸中洩漏，成果獲《科學》子刊《科學—進展》刊登。應用物理及材料工程研究院博士生鄭培霞為該論文的第一作者。

應用物理及材料工程研究院助理教授蔡永青入選國家自然科學基金「優秀青年科學基金項目」。

澳大、深圳大學和南昆士蘭大學合作設計了一種由聚丙烯酰胺／酸化單壁碳納米管復合水凝膠和氯化錫（IV）／亞錫（II）作為氧化還原對組裝而成的準固態熱電化學電池（TEC），並基於其靈敏的應變傳感和有效的溫差發電特性發展了自供能的應變傳感體系，成果獲《材料視野》刊登。應用物理及材料工程研究院博士生梁麗榮為該論文的第一作者。

中華醫藥研究院教授鄭穎的團隊發現，皮膚及淋巴系統對納米粒的攝取在免疫相關皮膚疾病如牛皮癬的治療中起關鍵作用，而藥物粒子大小對其有一定影響，成果為研製新型抗牛皮癬藥物提供思路，獲《藥學學報》英文刊刊登。

中華醫藥研究院教授梁重恆和副教授林理根帶領的團隊與香港浸會大學化學系副教授馬迪龍的團隊設計並合成出一種新型的穩定劑，可加速糖尿病傷口癒合，有望用於治療新型治療糖尿病足，成果獲《自然—通訊》刊登。

中華醫藥研究院副教授林理根的團隊與中國內地和美國的多家研究機構合作，發現去乙酰化酶 SIRT3 在調節脂質代謝和保護肝細胞免受脂毒性損傷的作用，為治療非酒精性脂肪肝的研究和治療提供潛在的新靶點，成果獲《細胞死亡與分化》刊登。

Wang Chunming, associate professor in the ICMS, in collaboration with Prof Dong Lei at Nanjing University and senior dental surgeon Dr Yu Na at National Dental Centre Singapore, devised a biomaterial coating that can improve bone-to-implant integration ('osseointegration') under osteoporotic conditions, by 'switching' on and off local inflammation in response to the healing process. The study was published in *Advanced Functional Materials*.

Distinguished Professor Chen Xin in the ICMS, and a team led by Dr Joost J Oppenheim in the United States National Cancer Institute, found that tetrandrine, an active anti-inflammatory ingredient isolated from the Chinese herbal medicine *Stephania tetrandra* S Moore, can selectively increase the membrane-bound TNF (mTNF) expression on myeloid cells and promote the *in vivo* expansion of regulatory T cells (Tregs) through TNFTNFR2 signalling pathway. This finding may be helpful in the development of safer and more effective anti-inflammatory or immunosuppressive drugs. The study was published in *Science Advances*, a member of the Science family of journals.

Two associate professors in the SKL-QRCM, namely Chen Meiwang and Wang Chunming, were elected 'Qi-Huang' Young Scholars (QHYS), in recognition of their exceptional achievements in the field of Chinese medicine. Launched by the State Administration of Traditional Chinese Medicine, the QHYS programme is a national talent programme, aimed at selecting 100 young scholars in China with outstanding academic achievements and potential.

Teams led by Assistant Professor Zhao Yonghua and Associate Professor Bian Ying in the ICMS, in collaboration with teams led by Wang Qi, member of the Chinese Academy of Engineering and professor at Beijing University of Chinese Medicine and Prof Van Iat Kio at Kiang Wu Nursing College of Macau, discovered the correlation between Traditional Chinese Medicine Body Constitution and neurocognitive disorder in elderly Macao residents. The study was published in *Chinese Medicine and Evidence-Based Complementary and Alternative Medicine*.

At the Fourth International Symposium on Phytochemicals in Medicine and Food, ICMS PhD student Linghu Kegang received a Best Oral Presentation Award in the PhD student category; master's student Xiong Shihang a Best Oral Presentation Award in the master's student category; PhD student Miao Lingchao a Best Poster Award.

Two research projects conducted by the ICMS, one on psoriasis and the other on antibacterial and antitumor drugs, both received the Best Poster Award at the 13th Chinese Pharmaceuticals Conference 2019.

中華醫藥研究院副教授王春明與南京大學教授董磊、新加坡國立牙科中心主任醫師余娜等設計可伴隨損傷癒合過程「開啟—關閉」局部炎症的生物材料塗層，用以改善骨質疏鬆疾病狀況下種植體與骨組織的整合，成果獲《先進功能材料》刊登。

中華醫藥研究院特聘教授陳新與美國國家癌症研究所 Joost J Oppenheim 博士的團隊發現，中藥粉防己中的抗炎活性成分粉防己碱可選擇性增加髓系細胞中膜結合 TNF 的表達，並在體內通過 mTNF-TNFR2 細胞信號通路促進調節性 T 細胞的增殖。成果有助研發更安全、更有效的抗炎和免疫抑制藥物，獲《科學》子刊《科學進展》刊登。

中藥質量研究國家重點實驗室副教授陳美婉和副教授王春明獲選為「青年岐黃學者」，表彰其卓越科研。「青年岐黃學者」是國家中醫藥管理局開展的國家級人才項目，旨在從全國選拔出 100 名專業水準高、發展勢頭好的中醫藥學者。

中華醫藥研究院助理教授趙永華和副教授卞鷹的團隊與北京中醫藥大學院士王琦的團隊及鏡湖護理學院尹一橋院長的團隊合作，揭示中醫體質與澳門長者認知功能障礙存在明顯相關性，成果獲《中華醫藥學報》和《循證補充和替代醫學》刊登。

在「第四屆醫藥與食品中植物化學物質國際研討會」上，中華醫藥研究院博士生令狐克剛獲頒「最佳博士生論壇獎」、碩士生熊世航獲頒「最佳碩士生報告獎」、博士生繆齡超獲頒「最佳壁報獎」。

中華醫藥研究院兩項藥物研究分別為治療「銀屑病」（俗稱牛皮癬）和抗菌抗癌藥物帶來創新的研發思路，於「第 13 屆中國藥物製劑大會」獲頒「石藥優秀壁報獎」。

A paper titled 'Systematic Evaluation of COVID-19 Related Health Rumors', written by ICMS PhD student Ge Pu, was ranked among the Top Ten Best Papers on Health Communication in China at the 15th China National Health Communication Conference.

A project titled 'Key Technologies and Applications for the Discovery of Active Ingredients and Development of Quality Control System for the Commonly Used Chinese Medicine in Lingnan Region', jointly conducted by Associate Professor Qingwen Zhang in the ICMS and his colleagues at Jinan University, Guangdong Institute of Drug control, and several other institutions, received a first prize of the Guangdong Science and Technology Progress Award 2020.

A research article titled 'The Global Chimeric Antigen Receptor T (CAR-T) Cell Therapy Patent Landscape', written by faculty members and students in the ICMS, was published in *Nature Biotechnology*. They are master's students Lyu Liyang and Feng Ye, as well as Distinguished Professor Chen Xin and Associate Professor Hu Yuanjia. The paper analyses patent-related activities in the CAR-T field through data mining and network analysis.

FSS undergraduate student Cen Bangjie, head of Zidian Technology Ltd, received the 12th China Youth Science and Technology Innovation Award for his air disinfection device, developed with the support of the Centre for Innovation and Entrepreneurship.

The Institute of Microelectronics (IME) developed an innovative ADC architecture for the front-end IoT sensors, which uses the digital feedforward to formulate the equivalent timeinterleaving (TI) oversampling ADC, and the concept has been implemented in a 28nm CMOS with experimental functional tests and demonstrated its feasibility. Associate Professor Sin Sai Weng is the author of the related research article; PhD student Jiang Dongyang is the first author. PhD student Qi Liang and Chair Professor Rui Martins also made important contributions to the project. The study was published in the *IEEE Journal of Solid State Circuits*.

The IME developed a novel power driver IC for high-quality AMOLED displays. By using an innovative circuit architecture, system size and output voltage ripple were greatly reduced, improving the display quality. Associate Professor Lu Yan is the corresponding author of the article. UM Macao Postdoctoral Fellow Mao Fangyu is the first author. Chair Professor Rui Martins and Emeritus Professor of the University of Pavia (Italy) Franco Maloberti also made important contributions to this project. The study was published in the *IEEE Journal of Solid-State Circuits*.

中華醫藥研究院博士生葛蒲的論文《涉及新冠肺炎健康謠言的系統評價研究》在第 15 屆中國健康傳播大會獲頒「中國健康傳播十佳論文獎」。

中華醫藥研究院副教授張慶文聯合暨南大學、廣東省藥品檢驗所等多個單位的《嶺南常用中草藥活性成分發現和質控體系構建的關鍵技術與應用》項目，獲 2020 年度廣東省「科技進步獎一等獎」。

中華醫藥研究院碩士生呂麗陽和馮葉、特聘教授陳新和副教授胡元佳用數據挖掘和網絡分析等工具，分析 CAR-T 領域的全球專利，為研發者、投資者及政府提供重要參考，其論文「嵌合抗原受體 T 細胞療法全球專利格局」獲《自然-生物技術》刊登。

經創新創業中心的孵化及指導，紫電科技有限公司負責人、社會科學學院本科生岑邦杰憑著其研發的空氣消毒裝置，獲頒第 12 屆中國青少年科技創新獎。

微電子研究院研發出一種用於物聯網傳感器前端模數轉換器創新架構，它使用數字前饋概念演變出的時間交織型（TI）過採樣模數轉換器的結構，於 28nm 芯片上形成了功能性測試並證明可行。副教授冼世榮為文章的通訊作者，博士生姜冬陽為第一作者，博士生祈亮、講座教授馬許願也為該研究做出了重要貢獻。成果獲《IEEE 固態電路期刊》刊登。

微電子研究院研發出一款應用於 AMOLED 高質量顯示屏幕的電源芯片。通過創新的電路架構，減小了方案的體積，同時減小了電源紋波，提升顯示質量。副教授路延為文章的通訊作者，澳大濠江博士後研究員毛方玉為第一作者，講座教授馬許願和意大利帕維亞大學榮休教授 Franco Maloberti 也為該研究做出了重要貢獻。成果獲《IEEE 固態電路期刊》刊登。

The IME developed a new analog-to-digital converter (ADC) architecture that alleviates gain error sensitivity in two-step ADCs and allows aggressive shaping on the quantisation noise. The technique considerably enhanced the yield of the two-step ADCs without calibration. The paper was accepted by the IEEE International Solid-State Circuit Conference. Assistant Professor Chan Chi Hang is the corresponding author. PhD student Hongshuai Zhang is the first author. Associate Professor Zhu Yan and Chair Professor Rui Martins also made important contributions to the study. The detailed version of the study was accepted by the *IEEE Journal of Solid-State Circuit* in 2021.

The IME developed a new wideband-harmonic-shaping voltage-controlled oscillator (VCO) topology. The new VCO scheme not only can achieve the highest peak figure-of-merit; it can also greatly improve 1/f³ PN corner without harmonic tuning. Assistant Professor Chen Yong is the corresponding author of the related paper. PhD student Guo Hao is the first author. Prof Mak Pui In and Chair Professor Rui Martins also made important contributions to this study, which was presented at the 2021 IEEE International Solid-State Circuits Conference.

A team in the IME developed a single-stage inductive-powertransfer converter operating as a wireless constant-power and maximum-efficiency battery charger. By maintaining a constant output power throughout the charging, the converter can obtain a faster charging rate. Postdoctoral Fellow Huang Zhicong is the first and corresponding author. Associate Professor Lam Chi Seng, Full Professor Mak Pui In, Chair Professor Rui Martins, with Associate Professor Wong Siu Chung at Hong Kong Polytechnic University and Chair Professor Tse Chi K at the City University of Hong Kong also made important contributions to this study, which was published in *IEEE Transactions on Power Electronics*.

Faculty members in the State Key Laboratory of Internet of Things for Smart City (SKL-IoTSC) won a second prize and the only Best Innovation Award at a contest of artificial intelligence application in power dispatching in China. It was the only university team to win any awards at this competition. All members of the UM team are postgraduate students in the SKL-IoTSC. They include Yu Peipei (team leader), Zou Bin, Hui Hongxun, Feng Guangxu, and Yang Qifan. Their advisors are UM Rector Yonghua Song, chair professor and director of the SKL-IoTSC, Assistant Professor Zhang Hongcai, and Associate Professor Dai Ningyi.

微電子研究院研發出一種新型的模數轉換器架構，可減輕兩步模數轉換器中增益誤差的敏感性，並允許對其量化噪聲進行有效的整形。提出的技術大大提高了在沒有校準輔助下提升兩步模數轉換器的產量。該論文被 IEEE 國際固態電路會議接受，助理教授陳知行為通訊作者。博士生張紅帥為第一作者。副教授諸媽和講座教授馬許願也為開展這項研究付出了重要貢獻。《IEEE 固態電路期刊》也於 2021 年接受這項工作的詳細版本。

微電子研究院研發出一款新型寬帶寬譜波整形的壓控振蕩器拓撲結構。該方案不但獲得最佳的峰值指標，而且極大改善閃爍相位噪聲拐角頻率，不需要任何諧波調整方案。助理教授陳勇為文章的通訊作者，博士生郭昊為第一作者，講座教授馬許願和教授麥沛然也為該研究做出了重要貢獻。成果在 2021 年 IEEE 國際固態電路會議展示。

微電子研究院的團隊研發出一種單級感應功率傳輸轉換器，用作無線恒定功率和最大效率的電池充電器。通過在整個充電過程中保持恒定的輸出功率，轉換器可以獲得更快的充電速率。博士後黃智聰為第一及通訊作者，副教授林智聲、教授麥沛然、講座教授馬許願、香港理工大學副教授黃少聰和香港城市大學講座教授謝智剛也為該研究做出了重要貢獻。成果獲《IEEE Transactions on Power Electronics》刊登。

智慧城市物聯網國家重點實驗室的研究團隊於「中國第二屆電力調度 AI 應用大賽」奪得二等獎和唯一的創新獎，是唯一來自大學的獲獎團隊。參賽隊員包括余佩佩（隊長）、鄒斌、惠紅勳、馮廣旭和楊起帆。導師為澳大校長、智慧城市物聯網國家重點實驗室主任宋永華講座教授、助理教授張洪財和副教授戴寧怡。

Janny Leung, master of the Choi Kai Yau College and professor in the SKL-IoTSC, was appointed the 2021 Distinguished Lecturer of the International Federation of Operational Research Societies (IFORS). Prof Leung is the first Asian woman to be appointed a Distinguished Lecturer of the IFORS. She was also the first Asian IFORS Distinguished Lecturer to speak at the European Regional Conference of Operational Research.

The CMS and the APAEM released the *2021 Macao Macroeconomic Forecast*. According to the forecast, the baseline forecast for Macao's economic growth is between 21.4 per cent and 33.5 per cent; the baseline forecast for growth in the exports of services is between 53.4 per cent and 82.1 per cent; the unemployment rate is projected to decline; government revenue (reimbursement from government reserve excluded) is projected to be between MOP 59.3 billion and MOP 73.9 billion.

The CMS released a new book titled 'The Chronicle of Macao (1999-2019)', which is a chronological compilation of the political, economic, social and cultural events of the Macao Special Administrative Region in the past two decades.

The CMS released a new book titled 'On the Frontline of Change: An Oral History of Macau in the Pre-handover Era'. It combines histories of significant events and people to reconstruct the historical scene and key knowledge at each stage of Macao's handover, while adding vivid details to the historical narratives through the memories of the people.

Wang Rong and Tai Oi Tai, master's students of Macao studies, and Prof Tam Kam Weng in the Faculty of Science and Technology, who is also an adjunct professor in the CMS, jointly published a research article titled 'Solar Radiation Reduction Monitoring of Macao World Heritage District Photovoltaic System Using GIS and UHF RFID Obstacle Detection Approach'. The paper won the Best Paper Award at the ninth International Conference on Smart Grid.

A group of faculty members and students received a first prize and a second prize in the outstanding paper category, as well as a Best Exhibition Board Award, at the Seventh Educational Forum on Modern Residential College System. In addition, UM was elected the new chair of an alliance for collegiate universities in China.

蔡繼有書院院長、智慧城市物聯網國家重點實驗室教授梁美兒獲任命為國際運籌學會聯盟 2021 年特聘講師，是第一位獲此任命的亞洲女性，也是首位在歐洲區域運籌學會議發表專題演講的亞洲特聘講師。

澳門研究中心與亞太經濟與管理研究所發表 2021 年澳門宏觀經濟預測：預計 2021 年經濟增長為 21.4% 至 33.5% 之間、服務出口增長為 53.4% 至 82.1%、失業率下降、澳門特區政府最終收入（不包括財政回撥）為 593 億至 739 億澳門元。

澳門研究中心發佈其編著的《澳門回歸大事編年(1999-2019)》，梳理編輯澳門特區 20 年間在政治、經濟、社會、文化等方面的大事。

澳門研究中心發佈其編著的《澳門回歸歷程口述史—變革前線》。該書以「事件史」和「人物史」兩種方式結合撰寫，重構澳門回歸歷程各個階段的歷史現場與當中的關鍵知識，同時透過人物的記憶補充歷史敘述的血肉。

澳門研究碩士生王榮、戴愛弟與科技學院教授及澳門研究中心兼任教授譚錦榮合著的論文《Solar Radiation Reduction Monitoring of Macao World Heritage District Photovoltaic System Using GIS and UHF RFID Obstacle Detection Approach》在第 9 屆智能電網國際會議上獲最佳論文獎。

澳大師生參與「第七屆高校現代書院制教育論壇」並發表論文，奪得優秀論文一等獎、二等獎和最佳展示獎。此外，澳大在高校書院聯盟的年度會議上獲選為新一屆理事長單位。

SCHOLARSHIPS, FELLOWSHIPS AND ACADEMIC PRIZES

獎學金、助學金 及學術獎項

獎學金、助學金及學術獎項 | SCHOLARSHIPS, FELLOWSHIPS, AND ACADEMIC PRIZES

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周家熙、巫嘉莉

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