

**一般科研資助**  
**2021年度獲批項目**  
**Financiamento para Geral Investigação em 2021**

序號 N.º	檔案編號 N.º de Projecto	申請實體 Entidade Beneficiária	項目負責人 O Responsável de Projecto	研究項目 Finalidade
1	0055/2020/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	韓子天 Hon, Citin	基於寬度學習系統的印刷瑕疵檢測方法及應用 Printing defect detection method and application based on broad learning system
2	0058/2020/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	范星星 Fan, Xingxing	治療類風濕關節炎的新策略：靶向PKC $\delta$ 激活調節性T細胞來 重塑免疫穩態 A new strategy for treating rheumatoid arthritis: targeting PKC-delta to stimulate regulatory T cells and restore immune homeostasis
3	0059/2020/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	蔡占川 Cai, Zhanchuan	月球表面冷異常：時空分佈特徵及成因機制分析研究 Cold anomaly of lunar surface: Research on spatio-temporal distribution characteristics and formation mechanism
4	0061/2020/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	孟德宇 Meng, Deyu	元數據驅動的優化模型自構建技術 Self-constructing technology of optimization model driven by metadata
5	0062/2020/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	趙慶林 Zhao, Qinglin	面向第三代區塊鏈的智慧合約機制研究與原型實現 Research and prototype implementation for smart-contract support in the 3rd generation blockchain
6	0064/2020/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	游燕 You, Yan	澳門地區大氣光化學污染特徵、成因和來源解析 Characterization, causes and source apportionment of photochemical air pollution in Macao
7	0065/2020/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	姜志宏 Jiang, Zhihong	新型冠狀病毒氣溶膠現場快速檢測儀的研發與應用研究 Development of a on-site rapid detector for coronavirus aerosol and its application
8	0066/2020/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	肖玄玄 Xiao, Xuanxuan	圓法在稀疏群及華林哥德巴赫問題中的應用 Circle Method in thin groups and some Waring-Goldbach problem
9	0067/2020/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	肖穎 Xiao, Ying	普洱生茶自然發酵有機成分變化及功能多樣性影響研究 Study on organic components changes in Pu-erh raw tea fermentation and bioactive diversity
10	0068/2020/A2	聖若瑟大學 University of Saint Joseph	Freire Pereira De Ornelas E Vasconcelos, Raquel	SenSing - 在不斷變化的感官環境中的聲音交流：使用發聲魚 Danionella translucida測試適應性反應 SenSing - Acoustic communication in changing sensory environments: testing adaptive responses with the vocal fish model Danionella translucida
11	0070/2020/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	張康 Zhang, Kang	基於電子病歷系統的新型人工智能算法核心關鍵技術及應用 研究 New artificial intelligence algorithm and its application in electronic medical record system

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12	0071/2020/A2	澳門大學 Universidade de Macau	李家明 Lei, Ka Meng	設計用於微型化磁力共振成像系統之高壓絕緣層上覆矽芯片 Customized high-voltage interfacing silicon-on-insulator integrated circuit for miniaturized magnetic resonance imaging system
13	0077/2020/A2	澳門大學 Universidade de Macau	曾華鑫 Chang, Wa Kam	Prelamin A及老化對細胞移動機制的影響 Alternations of cell migration pathways caused by prelamin A and aging
14	0078/2020/A2	澳門大學 Universidade de Macau	沈漢明 Shen, Hanming	WIPI2 在線粒體自噬中的調控機制及生物學意義研究 Novel regulatory role of WIPI2 in mitophagy and its biological function
15	0079/2020/A2	澳門大學 Universidade de Macau	陳玗仰 Chen, Yang	利用丟番圖方程探索宇宙暗物質及其相關粒子物理 Exploring dark matter in the universe and related particle physics with Diophantine equations
16	0082/2020/A2	澳門大學 Universidade de Macau	胡光輝 Hu, Guanghui	可壓縮流體高階數值方法的設計、分析與實現 Design, analysis and realization of high order numerical methods for compressible flows
17	0083/2020/A2	澳門大學 Universidade de Macau	申平 Shen, Ping	暴雨型複合山地災害鏈致災機理、過程分析及風險定量評價 Fundamental mechanisms and processes of rainstorm-induced mountainous hazard chain and multi-hazard risk assessment
18	0085/2020/A2	澳門大學 Universidade de Macau	張宣軍 Zhang, Xuanjun	基於離子電流和熒光雙模式響應的納米通道傳感器 Dual-modal nanochannel sensor based on ionic current and fluorescence
19	0087/2020/A2	澳門大學 Universidade de Macau	潘治文 Pun, Chi Man	多媒體流中的隱私敏感物體像素化研究 Research on privacy-sensitive objects pixelation in multimedia streaming
20	0090/2020/A2	澳門大學 Universidade de Macau	施華斌 Shi, Huabin	海平面上升背景下澳門沿海風暴潮災害特性的變化 Changes of storm surges in Macao under sea level rise
21	0091/2020/A2	澳門大學 Universidade de Macau	顏至宏 Yen, Jerome	FPGA 高速資產走勢預測與風險管理系統 FPGA based high speed asset movement prediction and risk management system
22	0093/2020/A2	澳門大學 Universidade de Macau	蔡忠亞 Cai, Zhongya	氣候變化下南海北部跨陸坡輸運變異及對粵港澳大灣區環流動力過程影響 Variability of cross-slope exchanges in the northern South China Sea and its influences on the shelf circulations neighboring the Greater Bay Area in changing climate
23	0096/2020/A2	澳門大學 Universidade de Macau	陳石 Chen, Shi	混合維度鈣鈦礦材料界面降解過程的原位與現場原位研究 In-situ and operando investigation of multi-dimensional perovskite interfacial degradation
24	0098/2020/A2	澳門大學 Universidade de Macau	邵懷宇 Shao, Huaiyu	基於改性LixSi基複合材料電極的可控合成及其在高比能鋰電池中的應用 Controllable synthesis of modified LixSi-based composite electrode and the application in high-energy lithium batteries
25	0105/2020/A3	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	李少林 Li, Shaolin	嫦娥五號樣品分析研究 Laboratory analysis of Chang'e-5 returned samples
26	0106/2020/A3	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	陳勇 Chen, Yong	新型石墨烯/鐵電PMN-PT混合體系的合成、表徵及其應變效應研究 Investigation of synthesis, characterization and strain effect of graphene/ferroelectric PMN-PT hybrid systems

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27	0108/2020/A3	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	彭宇陽 Peng, Yuyang	協作分層序號調製技術在無線傳感網路中的研究 Research on cooperative layered index modulation in wireless sensor networks
28	0109/2020/A3	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	Daniel Tomas Sau Yue Baptista Hon	電壓門控鈉離子通道Nav1.5 介導大腸癌細胞凋亡逃逸途徑的前瞻性研究 The voltage-gated sodium channel NaV1.5 functions as an escape pathway from apoptosis in colon cancer cells
29	0110/2020/A3	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	李東 Li, Dong	無線供電反向散射通信網絡魯棒資源分配問題研究 Robust resource allocation for wireless powered backscatter communication
30	0111/2020/A3	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	梁麗嫻 Leung, Lai Han	新型人參多糖與抗PD1/PDL1免疫療法聯合治療肺癌的療效研究 Investigation of the combinational treatment effect of new form of ginseng polysaccharides with anti-PD1/PDL1 immunotherapy for treatment of lung cancer
31	0114/2020/A3	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	姚小軍 Yao, Xiaojun	以3CL蛋白酶為靶點的抗新冠病毒候選新藥研發 Development of new drug candidates targeting 3CL protease of COVID-19
32	0119/2020/A3	澳門大學 Universidade de Macau	武慶慶 Wu, Qingqing	面向6G通信的智能反射面關鍵技術研究與應用 Research on key techniques and applications of Intelligent Reflecting Surface for 6G communications
33	0120/2020/A3	澳門大學 Universidade de Macau	劉子銘 Liu, Tzu Ming	以脂褐素與紫質的多光子螢光代謝影像實現免標定的細胞凋亡動態監測 Label-free monitoring the apoptosis dynamics with multiphoton metabolic imaging of lipofuscin and porphyrin
34	0122/2020/A3	澳門大學 Universidade de Macau	孫海衛 Sun, Haiwei	關於變分數階導數節省內存和快速計算的研究與應用 On memory-saving fast algorithms for the variable-order fractional derivatives: exploring and applications
35	0127/2020/A3	澳門大學 Universidade de Macau	伍海燕 Wu, Haiyan	焦慮影響好奇心和探索行為的神經機制及其調控 The neural mechanism and neuromodulation of anxiety on curiosity and exploration behavior
36	0128/2020/A3	澳門大學 Universidade de Macau	曲松楠 Qu, Songnan	時間響應變色磷光碳納米點構建及紙基磷光發射機制研究 Synthesis of carbon nanodots with time-dependent phosphorescent color and study on its paper-based phosphorescence emission mechanism
37	0131/2020/A3	澳門大學 Universidade de Macau	湯子康 Tang, Zikang	碳量子點腫瘤免疫治療機制研究 Study on the mechanism of carbon quantum dot based tumor immunotherapy
38	0132/2020/A3	澳門大學 Universidade de Macau	曾強 Zeng, Qiang	自旋玻璃和非交換概率中的高斯性質 Gaussianity in spin glasses and noncommutative probability
39	0136/2020/A3	澳門大學 Universidade de Macau	張紅杰 Zhang, Hong jie	上皮形態發生中的mRNP代碼的解密 Deciphering the mRNP code in epithelial morphogenesis
40	0137/2020/A3	澳門大學 Universidade de Macau	張仲榮 Cheung, Edwin Chong Wing	前列腺癌中AR轉錄調控網絡的功能表徵 Functional Characterization of the AR Transcriptional Network in Prostate Cancer
41	0138/2020/A3	澳門大學 Universidade de Macau	李宗津 Li, Zongjin	超吸水水凝膠改性的耐沖刷水工混凝土 Superabsorbent hydrogel modified scour-resistant hydraulic concrete

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42	0139/2020/A3	澳門大學 Universidade de Macau	郭志達 kwok, Chi Tat	採用激光表面處理，開發用於海洋和醫療應用的新型，耐用和抗菌的鐵基多成分塗層 Development of novel, durable and anti-microbial coatings fabricated by laser surface modification for marine and medical applications
43	0141/2020/A3	澳門大學 Universidade de Macau	蔡小川 Cai, Xiao Chuan	超彈性問題的並行區域分解解法 Parallel domain decomposition methods for hyperelasticity problems
44	0143/2020/A3	澳門大學 Universidade de Macau	吳曉偉 Wu, Xiaowei	完全在線匹配與智慧拼車問題的近似演算法研究 Approximation algorithms for fully online matching and smart ride sharing
45	0147/2020/A3	澳門大學 Universidade de Macau	羅茜 Luo, Qian	闡明轉移性乳腺癌細胞與巨噬細胞相互作用、共同進化以進一步增強癌症轉移和腫瘤生長的機制 Elucidate the mechanisms through which metastatic breast cancer cells and macrophages interact and co-evolve to further enhance cancer metastasis and tumor growth
46	0148/2020/A3	澳門大學 Universidade de Macau	羅文基 Law, Man Kay	毫米尺寸物聯網應用中的超小型能量採集電源管理芯片的研究與開發 Research and development on ultra-compact energy harvesting power management IC for mm-scale internet of things application
47	0151/2020/A3	澳門大學 Universidade de Macau	王勝鵬 Wang, Shengpeng	基於組分「協同體」的大黃-黃連經典方配伍機理研究與治療潰瘍性結腸炎的創新製劑開發 Mechanism study of classical formula Rhubarb-Coptis based on constituent synergies and development of novel formulations for treatment of ulcerative colitis
48	0159/2020/A3	澳門大學 Universidade de Macau	余華 Yu, Hua	中藥九裡香多基原植物的再評價及質量標準研究 Re-evaluation evaluation and quality standard research for the resource plants of multi-original Chinese medicine of Folium et Cacumen Murrayae
49	0007/2021/A1	遠光信息技術（澳門）有限公司 YGSOFT INFORMATION TECHNOLOGY (MACAO) COMPANY LIMITED	林倩婷 Lam, Sin Teng	澳門電力負荷預測系統開發與應用 Development and application of the load forecast system for Macau power network
50	0011/2021/A1	澳門大學 Universidade de Macau	譚錦榮 Tam, Kam Weng	基於多模諧振結構的先進超高頻識別標籤和閱讀器研究及其工業應用 Research on Multi-Mode Resonance (MMR) structure for advanced UHF RFID tag and reader and; its industrial applications
51	0018/2021/A1	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	喬岩 Qiao, Yan	數字孿生驅動的晶圓製造系統調度優化與控制 Digital-twin driven scheduling and control of wafer fabrication systems
52	0019/2021/A1	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	馬超 Ma, Chao	Cantor級數展式中的重分形譜 The multifractal spectrum for cantor series expansions
53	0020/2021/A1	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	丁恣 Ding, Min	基於天問一號觀測數據的火星岩石圈熱動力學演化研究 Thermodynamic evolution of the Martian lithosphere based on the Tianwen-1 mission

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54	0022/2021/A1	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	鍾南山 Zhong, Nanshan	靶向新冠病毒靶點的連翹苷抗病毒機制研究及開發應用探索 Antiviral mechanism and application of forsythin targeting new coronavirus
55	0023/2021/A1	澳門大學 Universidade de Macau	黎永杰 Li, Yongjie	電動力學天平的改進及其在研究海洋氣溶膠中糖類有機物吸 濕性及相態的應用 Modification of an electrodynamic balance and application to study hygroscopic behavior and phase state of saccharides in marine aerosols
56	0024/2021/A1	澳門大學 Universidade de Macau	李鵬 Li, Peng	中藥重金属污染新型快檢系統的研發 Research and development of novel system for rapid detection of heavy metal contaminants in Chinese medicine
57	0025/2021/A1	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	伍建林 Wu, Jianlin	基於體內外效應物質全成分分析技術的中藥淡豆豉“質- 效”相關性多維度功能評價 Study on the “quality-effect” correlation of Multi-dimensional functional evaluation and Dandouchi total components analysis in vivo and in vitro
58	0027/2021/A1	澳門大學 Universidade de Macau	林智聲 Lam, Chi Seng	先進控制的新一代電流質量補償裝置的實際應用 Practical application of advanced controlled new generation current quality compensation device
59	0029/2021/A1	澳門大學 Universidade de Macau	賈艷偉 Jia, Yanwei	數字微流控癌症藥物篩選系統 Digital microfluidic system for cancer drug screening
60	0031/2021/A1	澳門大學 Universidade de Macau	沈漢明 Shen, Hanming	瑞德西韋（Remdesivir）對宿主細胞的自噬- 溶酶體系統的影響及其在抗冠狀病毒作用的意義 Novel pharmacological effects of Remdesivir on the autophagy- lysosome system in the host cells and the implication in its anti-viral activity
61	0032/2021/A1	澳門大學 Universidade de Macau	周祖行 Chao, Chong Hang	揭示腸炎弧菌RhsP毒素釋放的分子機制和利用免疫蛋白RhsPI 防止腸胃炎 Molecular mechanism of Vibrio parahaemolyticus RhsP toxin release and RhsPI immunity protein as a protection against gastroenteritis
62	0033/2021/A1	澳門大學 Universidade de Macau	黃冠豪 Wong, Koon Ho	對藥物卡泊芬淨使用於治療人類曲霉菌感染使用過程中悖論 效應（CPE）內在調控機理的研究 Understanding the molecular mechanism of Caspofungin Paradoxical Effect in the human fungal pathogen Aspergillus fumigatus
63	0034/2021/A1	澳門大學 Universidade de Macau	江洋 Jiang, Yang	GaN輔助式混合結構DC-DC轉換器芯片研究與開發 Research and development of integrated GaN-assisted hybrid DC- DC converter
64	0040/2021/A1	澳門大學 Universidade de Macau	鍾俊文 Zhong, Junwen	壓電駐極體式可穿戴運動感知與觸覺反饋器件及其人機交互 應用研究 Research on piezoelectret-based wearable motion sensing and haptics feedback device and its human-machine interactivity application
65	0041/2021/A1	聖若瑟大學	Carvalho Marques Alveirinho Dias, Agata Sofia	現代海底塊狀硫化物成礦作用的原位微量元素和同位素限制 In-situ trace elemental and isotopic constraints on modern seafloor massive sulfide mineralization
66	0043/2021/A1	澳門大學 Universidade de Macau	趙琦 Zhao, Qi	針對非小細胞肺癌靶點B7- H3的CAR-T和雙特異性抗體藥物開發 Development of anti-B7-H3 CAR-T and bispecific antibodies against non-small cell lung cancer

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67	0045/2021/A1	澳門大學 Universidade de Macau	趙永華 Zhao, Yonghua	中藥豨莶提取物減緩缺血性中風炎症損傷發揮神經保護作用與機制研究 The effects and mechanisms of Siegesbeckia orientalis extract exerting neuroprotective role by attenuating inflammatory injury after ischemic stroke
68	0047/2021/A1	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	周孟初 Zhou, Mengchu	基於學習機制的智能優化方法及其在物流行業智能倉儲中的應用 Learning-based intelligent optimization methods for smart warehousing in logistics industry
69	0048/2021/A1	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	莫蕙 Mo, Hui	FTO介導FOXO1mRNA去甲基化修飾上調ApoC3促進PCOS卵巢局部胰島素抵抗的作用及機制研究 Research on the effects and mechanism of FTO mediated FOXO1 mRNA demethylation and Up-regulation of ApoC3 on ovarian insulin resistance in PCOS
70	0051/2021/A1	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	余亮亮 Yu, Liangliang	多角度研究主帶彗星133P及其族群的物理性質為國家“鄭和號”太空探測任務提供科學參考 Multi-angle research on the physical properties of main belt comet 133P and its family as scientific references for China's “Zheng He” space mission
71	0053/2021/A1	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	李欣志 Li, Xinzhi	血管外周脂肪組織異質性、褐色化以及益母草鹼降脂作用新機制研究 Heterogeneity and browning of the perivascular adipose tissue and new mechanisms for the lipid-lowering effects of leonurine
72	0060/2021/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	魏慶來 Wei, Qinglai	建築群與分布式能源系統的不完全信息一體化建模與自優化控制 Incomplete information integrated modeling and self-optimizing control of building group and distributed energy system
73	0061/2021/A2	澳門大學 Universidade de Macau	蘇煥興 Su, Huanxing	應用磷脂膽鹼類單體納米膠囊遞送神經營養因子保護短暫性全腦缺血誘導的神經元損傷和認知功能障礙的研究 Using therapeutic nanocapsules of nerve growth factor to protect against neuronal loss and cognitive dysfunction in transient global ischemia
74	0062/2021/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	于海杰 Yu, Haijie	鈣通道蛋白相變對肺癌發生機制的研究 Investigation of phase separation of calcium channel on oncogenic mechanisms of lung cancer
75	0064/2021/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	李志武 Li, Zhiwu	網絡化離散事件系統不透明性有效驗證和攻擊檢測 Efficient opacity verification and attack detection of networked discrete event systems
76	0065/2021/A2	澳門大學 Universidade de Macau	王瑞兵 Wang, Ruibing	$\beta$ -環糊精介導的巨噬細胞-槲皮素脂質體偶連體用於“內應式”靶向治療動脈粥樣硬化 Beta-cyclodextrin mediated conjugation of macrophage and quercetin-loaded liposomes for targeted atherosclerotic regression
77	0073/2021/A2	澳門大學 Universidade de Macau	苗凱 Miao, Kai	乳腺癌轉移路徑和其驅動因子的鑑定，及針對驅動因子的靶向檢測和治療的應用研究 Breast cancer dissemination route and related driver factors identification, and the applied research on the targeted detection and treatment for the driving factors

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78	0077/2021/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	李彥光 Li, Yanguang	基於鈀基合金納米材料的二氧化碳還原協同催化效應研究 Study of the synergistic catalytic effect in nanostructured palladium alloys for electrochemical carbon dioxide reduction
79	0080/2021/A2	澳門大學 Universidade de Macau	祝雷 Zhu, Lei	高性能移相器的關鍵技術研究及其在5G/B5G通信系統中的應用 Research on key technologies of advanced phase shifters and their applications in 5G/B5G communication systems
80	0081/2021/A2	澳門大學 Universidade de Macau	陳修平 Chen, Xiuping	老藥新用：開發雙香豆素防治三陰性乳腺癌肺轉移的臨床新 適應症 Repurposing FDA approved drug dicoumarol for lung metastasis of TNBC as a new clinical indication
81	0082/2021/A2	澳門大學 Universidade de Macau	邢貴川 Xing, Guichuan	綠光鈣鈦礦光-電與電-光轉換集成器件研製 Development of reversible photon-electricity conversion device based on green emission perovskites
82	0083/2021/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	伍乃騏 Wu, Naiqi	加工模塊配有多腔的半導體芯片製造組合設備運行優化和控 制 Operational optimization and control of cluster tools with multiple chamber configuration in a process module for wafer fabrication
83	0086/2021/A2	澳門大學 Universidade de Macau	鄭穎 Zheng, Ying	研發基於全新免疫調節機制治療銀屑病中藥小分子粉防己碱 的外用製劑 Development of new immunomodulatory small molecule tetrandrine from Chinese medicine to treat psoriasis by topical route
84	0087/2021/A2	澳門大學 Universidade de Macau	紀天龍 Cristino, Valentino Anok Melo	使用增材製造技術製成的創新內部冷卻攪拌摩擦焊具 Innovative tool for friction stir welding with internal cooling based on additive manufacturing technology
85	0088/2021/A2	澳門大學 Universidade de Macau	周冰朴 Zhou, Bingpu	面向應用的柔性超疏水薄膜的製備及性能優化研究 Investigation of the fabrication and optimization of flexible and superhydrophobic film towards real-world applications
86	0090/2021/A2	澳門大學 Universidade de Macau	李海峰 Li, Haifeng	第三代半導體AlN的單晶生長及產品開發 Third generation semiconductor AlN: single crystal growth and product development
87	0091/2021/A2	澳門大學 Universidade de Macau	燕茹 Yan, Ru	基於 LC-MS/MS 的靶向代謝組學發現內源性葡萄糖醛酸苷作為結直腸癌的診 斷生物標誌物 Exploring the endogenous glucuronides as diagnostic biomarkers of colorectal cancer using LC-MS/MS-based targeted metabolomics
88	0092/2021/A2	澳門大學 Universidade de Macau	王穎 Wang, Ying	中藥複方JCM-16021治療潰瘍性結腸炎的臨床前研究 Preclinical investigation of Chinese Medicine Formula JCM-16021 for treating inflammatory bowel disease
89	0094/2021/A2	澳門大學 Universidade de Macau	郭善知 Kuok, Sin Chi	用於網宇實體結構健康監測的虛擬延展智慧傳感網絡排佈研 究 Virtual augmented intelligent sensing network configuration for cyberphysical structural health monitoring
90	0097/2021/A2	澳門大學 Universidade de Macau	徐曉玲 Xu, Xiaoling	過度唾液酸化誘導的酸性腫瘤允許微環境與乳腺癌加速轉移 的因果關係研究 Study of causal relationship between acidic tumor permissive microenvironment induced by hypersialylation and accelerated breast cancer metastasis

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91	0098/2021/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	吳其標 Wu, Qibiao	溫鬱金活性成分莪术烯醇誘導肺癌細胞發生鉄死亡的分子機制及莪术烯醇納米製劑研發 The molecular mechanism of curcumenol, an active ingredient of Wenyujin, inducing ferroptosis of lung cancer cells and the development of curcumenol nano-formulations
92	0099/2021/A2	澳門大學 Universidade de Macau	陳新 Chen, Xin	基於TNFR2小分子抑制劑的新型抗腫瘤免疫治療候選藥物研究 Small molecule TNFR2 inhibitors as novel anti-tumor immunotherapy drug candidates
93	0101/2021/A2	澳門大學 Universidade de Macau	顏王吉 Yan, Wangji	多重隨機因素耦合作用下高速鐵路鋼軌疲勞損傷演化規律及智慧檢測概率機器學習方法研究 Probabilistic machine learning for evolution law tracking and intelligent detection of fatigue damage for high-speed railway subjected to multiple uncertainties
94	0104/2021/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	鍾恬 Zhong, Tian	多糖基溫濕雙響應智能控釋食品保鮮複合塗膜的開發與應用研究 Development and application of polysaccharide-based temperature/humidity double response intelligent controlled-release composite coating for food preservation
95	0108/2021/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	王靜蓉 Wang, Jingrong	新冠病毒及其變異株S蛋白糖基化深度分析及糖基結構與抗體識別相關性研究 In-depth profiling of the glycosylation of S protein of SARS-CoV-2 and its variant strains to clarify the correlation between the glycosylation structure and antibody recognizes virus function.
96	0109/2021/A2	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	吳昀昭 Wu, Yunzhao	衛星對月定標關鍵技術研究 Research on key technologies of satellite calibration using the moon as a radiometric reference
97	0111/2020/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	鄧志培 Tang, Chi Pui	隕石的硅酸鹽中部份元素的溶入原因和機理 The cause and mechanism of accommodating certain elements in meteoritic silicates
98	0112/2020/A	澳門大學 Universidade de Macau	黃志文 Vong, Chi Man	醫學影像小樣本的深度模糊學習關鍵技術及其於COVID-19新冠肺炎影像分析驗證 The key technology of deep fuzzy learning for small samples of medical images and its application in COVID-19 image analysis and verification
99	0116/2020/A	澳門大學 Universidade de Macau	陳修平 Chen, Xiuping	基於程序性壞死探討抗腫瘤先導化合物2-甲氧基-6-乙醯基-7-甲基胡桃酮抗奧希替尼耐藥的肺癌研究 The anti-tumor lead compound 2-methoxy-6-acetyl-7-methyljuglone kills osimertinib-resistant lung cancer by necroptosis induction
100	0117/2020/A	澳門大學 Universidade de Macau	鄭慧珊 Cheang, Wai San	馬齒莧提取物對動脈粥樣硬化的作用機制研究 Molecular mechanisms of Portulaca oleracea L. (purslane) to attenuate atherosclerosis
101	0122/2020/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	張志鋒 Zhang, Zhifeng	構建抗體晶片快速篩尋土茯苓鮮藥材的抗炎活性成分 Construction of antibody microarrays for rapid screening of anti-inflammatory active ingredients of fresh Smilax glabra
102	0123/2020/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	李欣志 Li, Xinzhi	自由脂肪酸受體4抗血管外周組織炎症反應研究 Anti-inflammatory effects of free fatty acid receptor 4 in the perivascular adipose tissue

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103	0005/2021/A	凌波國際科技網絡通信有限公司 HD Circles Technology Network and Communication Company Limited	黎子健 Lai, Chi Kin	大範圍全自動室內無人機巡檢系統 Wide-range fully autonomous indoor drones inspection systems
104	0009/2021/A	澳門大學 Universidade de Macau	施華斌 Shi, Huabin	機器學習技術在澳門風暴潮預測中的應用可行性 Applicability of machine learning techniques to the prediction of storm surge in Macao
105	0010/2021/A	安信通科技（澳門）有限公司 SINGOU TECHNOLOGY (MACAU) LTD.	高進 Gao, Jin	針對社區養老群體的小型智慧中藥房研發 Research and development of a small smart Traditional Chinese Medicine pharmacy for the elderly in the community
106	0011/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	顏培宇 Yan, Peiyu	中醫經典名方“葷莖湯”中蘆根有效提取物麥黃酮 (Tricin) 作用于KRAS基因突变型肺癌的作用機制和臨床應用研究 The mechanism study of Tricin which is the effective extract of "WEIJING Decoction" on lung cancer with KRAS gene mutant
107	0013/2021/A	澳門大學 Universidade de Macau	鄭智文 Cheng, Che Man Raymond	矩陣交換子的範數不等式 Norm inequalities of matrix commutator
108	0016/2021/A	澳門大學 Universidade de Macau	陳肖家 Chen, Xiaojaia	餘甘子歐洲藥典質量標準研究 Study on the European Pharmacopoeia quality standard of Phyllanthi Fructus
109	0018/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	劉東 Liu, Dong	位置與身份分離的IPv6研究與應用 Research and application of separation protocol of locator and identifier towards IPv6
110	0019/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	高開周 Gao, Kaizhou	基於學習的不確定再製造協同群智能調度及重調度 Learning based cooperative swarm intelligent scheduling and rescheduling for remanufacturing with uncertain constraints
111	0020/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	黃琛 Huang, Chen	基於免疫浸潤及腫瘤轉移表達特征構建風險預測模型用於乳腺癌預後及治療指導 Development of an immunogenomic and metastatic risk score model for predicting prognosis and therapy of Breast Cancer
112	0023/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	吳洋 Wu, Yang	應用氮摻雜三維石墨烯材料脫鹽和去除微污污染物的性能及機理研究 The synthesis of nitrogen-doped three-dimensional graphene and its desalination and micro-organic pollutant removal performance
113	0024/2021/A	澳門大學 Universidade de Macau	陳勇 Chen, Yong	用于5G通信的毫米波多諧振腔體压控振蕩器的研发 R&D of millimeter-wave multi-resonant-tank voltage-controlled oscillator for 5G communication
114	0026/2021/A	澳門大學 Universidade de Macau	劉子銘 Liu, Tzuming	基於代謝螢光體的成像與光譜發展糖尿病的早期診斷技術 Diagnose diabetes mellitus conditions at its early stage with metabolic fluorochromic imaging and spectroscopy
115	0030/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	杜培鑫 Du, Peixin	水鋁英石中鐵賦存對其可見-近紅外光譜特徵的影響和機理 Effects of iron occurrence on the visible/near-infrared spectral features of allophane and the underlined mechanism
116	0031/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	鍾惟德 Zhong, Weide	MYPT1磷酸化糖脂代謝和細胞骨架的時空網絡調控前列腺癌的機制研究 Spatiotemporal network regulation of MYPT1 phosphorylate glycolipid metabolism and cytoskeleton in prostate cancer

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117	0033/2021/A	袁星亮 Yuen, Shing Leung	袁星亮 Yuen, Shing Leung	太陽能定向漂移底面層水體交換設備 Solar Directional drift bottom-surface water exchange device
118	0034/2021/A	奧創智能科技有限公司 ULTRA INTELLIGENT TECHNOLOGY CO., LTD.	何子鋒 Ho, Chifong	智能省電安全物聯網 Wi-Fi 無線網關 Intelligent power saving and secure IoT Wi-Fi gateway
119	0042/2021/A	永光環保科技（澳門）有限公司 EVER BRIGHT ENVIRONMENTAL PROTECTION TECHNOLOGY (MACAU) LTD.	黃萬鏗 Wong, Man Hang	白腐真菌降解雙酚A等環境內分泌干擾素的技術研究 Study on the degradation of bisphenol A and EEDs by trametes versicolor
120	0044/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	孫寶全 Sun, Baoquan	基於分子水準上的鈣鈦礦發光二極體的衰減機理探討及發展 穩定性手段的研究 Unveiling the degradation mechanism of perovskite light-emitting diodes from molecular insight and development of efficient and stable devices
121	0045/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	曾致慧 Chang, Chi Wai	基於旅游交通網絡分析的呼吸道流行病傳播預測研究 Research on the prediction of the spread of respiratory tract epidemics based on tourism transportation network analysis
122	0046/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	黃如兵 Huang, Rubing	近鄰搜索驅動的自適應隨機測試方法研究 Near-neighbor-search driven adaptive random testing methods
123	0047/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	潘媛媛 Pan, Yuanyuan	工業物聯網中弱電磁干擾攻擊探測技術研究 Research on detection of weak electromagnetic interference attacks in IIoT systems
124	0048/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	鄒正洋 Zou, Zhengyang	非磁暴期間地球輻射帶對太陽風擾動的響應研究 Response of the Earth radiation belt to the solar wind disturbances during non-storm times
125	0049/2021/A	澳門大學 Universidade de Macau	潘治文 Pun, Chi Man	三維多人姿態估計研究 Research on three dimensional multi-person pose estimation
126	0051/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	馮敏強 Fung, Man Keung	面向擴增實境及虛擬實境顯示應用的OLED光耦合技術 Light out-coupling technologies of OLED for virtual reality and augmented reality display applications
127	0052/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	李有勇 Li, Youyong	高通量篩選和設計電解水析氫材料 High throughput screening and design of hydrogen evolution materials for electrolytic water
128	0055/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	張曦之 Zhang, Xizhi	陶瓷材料在公共室內建築空間中的音質優化研究 Research on sound quality optimization of ceramic materials in public indoor building space
129	0056/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	王曉曉 Wang, Xiaoxiao	嶺南傳統建築裝飾中的嵌瓷工藝更新研究 Research on the renewal of inlaid porcelain technology in Lingnan traditional architectural decoration

**一般科研資助**  
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序號 N.º	檔案編號 N.º de Projecto	申請實體 Entidade Beneficiária	項目負責人 O Responsável de Projectode	研究項目 Finalidade
130	0058/2021/A	澳門大學 Universidade de Macau	張明磊 Zhang, Minglei	高速時間交織模數轉換器的時鐘偏移後臺校準技術研究 Research on background timing skew calibration in high-speed analog-to-digital converters
131	0060/2021/A	澳門大學 Universidade de Macau	張立明 Zhang, Liming	基於自適應傅里葉分解的公共原子學習方法及其在通用信號壓縮方面的應用 Common atoms learning approach based on adaptive Fourier decomposition and its application in universal signal and image compression
132	0062/2021/A	澳門大學 Universidade de Macau	譚建業 Tam, Kin Yip	開發口服膽鹼酯酶和澱粉樣 $\beta$ 聚集雙靶標抑制劑用於治療阿爾茨海默病 Development of oral dual target inhibitors of cholinesterases and amyloid aggregation for the treatment of Alzheimer's disease
133	0063/2021/A	澳門大學 Universidade de Macau	粟燕 Su, Yan	關於聚焦型太陽能熱電複合收集器的納米流強化冷卻的亞連續網格波爾茲曼優化的研究 Investigations on sub-continuous lattice Boltzmann optimization enhancement for nanofluid cooling of concentrated photovoltaic-thermal receivers
134	0065/2021/A	澳門大學 Universidade de Macau	孫恒 Sun, Heng	利用單細胞多組學技術探索BRCA1缺陷乳腺腫瘤對PARP抑制劑產生耐藥性的分子機制及應對策略 To explore the mechanisms and solutions for PARP inhibitor resistance in BRCA1-deficient mammary tumors by single cell multi-omics
135	0067/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	金子梁 Jin, Ziliang	無球粒隕石EC002中礦物不平衡結構的綜合研究 A comprehensive study of mineral disequilibrium in the achondrite EC002
136	0071/2021/A	澳門大學 Universidade de Macau	鍾昌明 Chong, Cheong Meng	未折疊蛋白反應調節劑在帕金森氏病模型上對多巴胺能神經元的保護作用及相關機制研究 Study of protective effects of unfolded protein response modulator on dopaminergic neurons in Parkinson's disease models and related mechanisms
137	0074/2021/A	澳門大學 Universidade de Macau	蔡偉華 Choi, Wai Wa	基於缺陷接地結構的橫向濾波及負群組延遲生成技術的微波氮化鎂位移傳感器之研究 Microwave GaN angular displacement sensors based on defected ground structured transversal filtering and negative group delay generation technique
138	0078/2021/A	想送物流有限公司 SENDWANT LOGISTIC LIMITED	丁立強 Ding, Li Qiang	智慧倉儲管理及物流配送聯動決策系統 Intelligent warehouse management and logistics distribution linkage decision-making system
139	0081/2021/A	澳門醫學科技研究協會 Macau Medical Science & Technology Research Association	張錦輝 Cheung, Kam Fai Peter	澳門地區RA流行病學調查及X-linked miRNA與其發病性別偏好的相關性研究 Epidemiological investigation of RA in Macau & the correlation between X-linked miRNA and RA gender preference
140	0086/2021/A	普強（國際）科技有限公司 Pachira International Technology LTD.	何國濤 Ho, Kuok Tou	基於智能語音識別的智慧酒店系統研究開發 Research and development of smart hotel system based on intelligent speech recognition
141	0087/2021/A	澳門大學 Universidade de Macau	池培蓮 Chi, Peilian	親密關係互動中的雙腦同步性與皮質醇壓力反應 Interpersonal neural synchronization and cortisol stress reactivity in intimate relationships
142	0088/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	張欣 Zhang, Xin	大蒜來源的XYZ-802治療甲狀腺乳頭狀癌及其作用機理的研究 The role and mechanism of action of the novel compound XYZ-802 discovered from garlic in papillary thyroid cancer

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序號 N.º	檔案編號 N.º de Projecto	申請實體 Entidade Beneficiária	項目負責人 O Responsável de Projecto	研究項目 Finalidade
143	0089/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	周娜 Zhou, Na	S-炔丙基半胱氨酸治療精神分裂症作用及其分子機制研究 The effect of S-propargyl-cysteine (SPRC) in the treatment of schizophrenia and its molecular mechanism
144	0093/2021/A	澳門科技大學基金會-澳門科技大學 Fundação Universidade de Ciência e Tecnologia de Macau - Universidade de Ciência e Tecnologia de Macau	羅婉君 Law, Yuen Kwan	一種應用到烏髮產品的草本植物研究 Study on a herbal compound applied to hair darkening products
145	0096/2021/A	澳門大學 Universidade de Macau	潘全威 Poon, Chuen Wai	開發一種創新、低成本和免除同位素標記的蛋白內標用於質 譜定量檢測 Develop an innovative, low-cost and isotope label-free protein standard for mass spectrometry-based absolute protein quantification
146	0099/2021/A	澳門大學 Universidade de Macau	莫昇萍 Mok, Seng Peng	精準鈈-90選擇性體內放射治療劑量學 Personalized Y-90 selective internal radiation therapy dosimetry
147	0103/2021/A	澳門大學 Universidade de Macau	代雲路 Dai, Yunlu	可植入細胞移植免疫隔離裝置的聚合物功能化修飾及臨床前 研究 Polymer-based functional modification of implantable cell transplantation immune isolation device and its preclinical study
148	0108/2021/A	澳門大學 Universidade de Macau	歐陽德方 Ouyang, Defang	製備與評價高溶解性人參皂苷Rh2處方 Preparation and evaluation of a highly-soluble Ginsenoside Rh2 formulation