

澳門科學技術發展基金與國家科技部聯合科研資助
2024年度獲批項目
Financiamento para Projectos de FDCT-MOST em 2024

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
1	0011/2024/AMJ	澳門自來水股份有限公司 The Macao Water Supply Company Limited	范曉軍 Fan, Xiaojun	高效臭氧催化氧化技術研發及其水淨化與污水處理和再生應用 Development of Innovative Catalytic Ozonation Technology for High-efficient Water Purification, Wastewater Treatment and Reuse
2	0031/2024/AMJ	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	江偉權 Jiang, Weiquan	無人機高光譜海洋污染精細化感知技術研究 Research on drone-based hyperspectral marine pollution delicate sensing technology
3	0032/2024/AMJ	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	馬義兵 Ma, Yibing	基於通量和指紋特徵的重金屬污染源解析技術和環境容量估算方法研究 A Study on Heavy Metal Pollution Source Identification Techniques and Environmental Capacity Estimation Methods Based on Flux and Fingerprint Characteristics
4	0034/2024/AMJ	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	張小平 Zhang, Xiaoping	火星大氣CH4等痕量氣體高靈敏探測關鍵技術研究 Key Technology Research on High-Sensitivity Detection of Trace Gases such as CH4 in the Martian Atmosphere

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5	0064/2024/AMJ	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	程亮 Cheng, Liang	生物適配型口腔抑菌抗炎材料的設計與組織修復效應研究 Engineering microenvironment-adaptive antibacterial and anti- inflammatory materials for synergistic oral tissue repair therapy
6	0077/2024/AMJ	澳門大學 Universidade de Macau	王明浩 Wang, Minghao	含跟網/構網融合型柔性裝置的城市電力系統控制與優化 Control and Optimization of Urban Power Systems Integrated with Flexible Grid-following/Grid-forming Hybrid Devices
7	0085/2024/AMJ	澳門大學 Universidade de Macau	萬峰 Wan, Feng	面向臨床應用的實用腦機接口共性關鍵技術研究 Research on key technologies of practical brain-computer interface for clinical applications
8	0101/2024/AMJ	澳門大學 Universidade de Macau	郭偉明 Quach, Wai Meng	新型自供能、自感知FRP增強輕質UHPC 海洋單體漂浮結構關鍵技術研發 Research and Development of Key Technologies for Self-powered and Self-sensing FRP Reinforced Lightweight UHPC Marine Single Body Floating Structures

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9	0103/2024/AMJ	澳門大學 Universidade de Macau	郝天偉 Hao, Tianwei	水產養殖尾水處理減污降碳協同增效關鍵技術研究及應用示範 Mechanistic study and application demonstration on key technologies for aquaculture wastewater treatment toward carbon emission reduction and resource recovery
10	0107/2024/AMJ	澳門大學 Universidade de Macau	孫鵬展 Sun, Pengzhan	大面積石墨烯阻隔與分離膜的製備及應用 Fabrication and application of large-area graphene barrier and separation films
11	0117/2024/AMJ	澳門大學 Universidade de Macau	鍾俊文 Zhong, Junwen	基於柔性觸覺傳感與反饋技術的腦卒中患者鏡像康復訓練系統 A Mirror Tactile Feedback System for Upper Extremity Rehabilitation Based on Flexible Multimodal Sensing and Synchronous Stimulation
12	0122/2024/AMJ	澳門大學 Universidade de Macau	廖金鳳 Liao, Jinfeng	高效穩定鈣鈦礦/硅疊層電池中的關鍵材料和光電物理 Key Materials and Opto-electronic Physics for Highly Efficient and Stable Metal Halide Perovskite/Silicon Tandem Solar Cells

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13	0129/2024/AMJ	澳門大學 Universidade de Macau	張明磊 Zhang, Minglei	高分辨率远距3D激光雷达电路和智能化技术研究 Research on circuit and intelligent technologies of high-resolution long-range 3D LiDAR chip
14	0136/2024/AMJ	澳門大學 Universidade de Macau	于維翰 Yu, Wei Han	基于忆阻器存内计算的高能效脉冲注意力加速芯片 Energy-Efficient Spiking Attention Accelerator IC Based on Memristive In-Memory Computing
15	0137/2024/AMJ	澳門大學 Universidade de Macau	梁麗嫻 Leung, Lai Han	靶向腸道微環境輔助肺癌治療的中藥人參系列產品研發與臨床研究 Series product development and clinical study of ginseng in targeting intestinal microenvironment for lung cancer adjuvant therapy
16	0159/2024/AMJ	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	面向脑内动脉病变的介入手术机器人诊疗系统研究 Research on Interventional Robotic Diagnosis and Treatment System for Cerebral Arterial Lesions

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17	0161/2024/AMJ	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	白麗萍 Bai, Liping	血管微環境S1PR1調控肺泡屏障穩態機制及肺纖維化靶向新藥研發 The Mechanism Study of S1PR1 of Vascular Niche on Maintaining the Homeostasis of Pulmonary Alveolar Barrier and Research & Development of Targeted Drugs for Pulmonary Fibrosis
18	0178/2024/AMJ	澳門大學 Universidade de Macau	莫昇萍 Mok, Seng Peng	用于阿尔茨海默病的多模态PET/MR成像技术研发 Multi-Modal PET/MRI Technology Development for Alzheimer's Disease