

澳門科學技術發展基金與國家自然科學基金委員會聯合科研資助
2024年度獲批項目
Financiamento para Projectos de FDCT-NSFC 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	0006/2024/AFJ	聖若瑟大學 University of Saint Joseph	Flores Goncalves, David Manuel Flores Goncalves, David Manuel	海洋棘皮动物和鱼类的常见环境应激耐受机制研究 TOLERANCE – Unravelling common environmental stress tolerance mechanisms in marine echinoderms and fish
2	0014/2024/AFJ	澳門大學 Universidade de Macau	周萬歡 Zhou, Wanhuan	基于多元感知与数物驱动的滨海深埋输水隧洞劣化渗漏机理 及预测研究 Research on Mechanism and Prediction of Deeply Buried Coastal Water Tunnels Deterioration and Leakage Based on Multivariate Sensing and Physics-informed Data-driven Approach
3	0043/2024/AFJ	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	基於澳科一號衛星數據的內輻射帶高能粒子演化過程分析與 建模 Analysis and simulations of the inner radiation belt energetic particle evolutions based on Macau science Satellite-1 data
4	0046/2024/AFJ	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	曾嵩山 Zeng, Songshan	面向可穿戴應用的柔性可拉伸發光器件研究 Flexible and Stretchable Light-Emitting Devices for Wearable Electronic Applications
5	0087/2024/AFJ	澳門大學 Universidade de Macau	葉穎暉 Ip, Weng Fai	基于人工智能算法理性设计并合成工况下CO2电催化制乙醇 的“三高”Cu基催化剂 Artificial intelligence algorithm-based rational design and synthesis of “three-high” copper-based catalysts for CO2 electrocatalytic ethanol production under working conditions

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6	0092/2024/AFJ	澳門大學 Universidade de Macau	楊志新 Yang, Zhixin	面向晶圓缺陷電子束檢測的跨尺度高動態超精密運動調控方法 Regulation of Cross-scale High-dynamic Ultra-precision Motion for Electron Beam Inspection of Wafer Defect
7	0093/2024/AFJ	澳門大學 Universidade de Macau	蘇煥興 Su, Huanxing	Rac1-DIAPH3通过相分离调控脑刺激成瘾干预后伏隔核突触重塑的机制研究 Mechanistic study of Rac1-DIAPH3 phase separation regulating synaptic remodeling in the nucleus accumbens after addiction through brain stimulation intervention
8	0101/2024/AFJ	澳門大學 Universidade de Macau	謝瑞瑜 Xie, Ruiyu	SLBP類泛素化在非小細胞肺癌中的功能調控機制及干預策略研究 Functional regulatory mechanism and intervention strategies of SLBP SUMOylation in non-small cell lung cancer
9	0102/2024/AFJ	澳門大學 Universidade de Macau	陳奇涵 Chen, Qihan	植物抗病基因DNA和RNA表观修饰的演化模式和对抗病功能的影响及其分子机制研究 Exploration of evolutionary patterns and effects of DNA and RNA epigenetic modifications of plant disease resistance genes on disease resistance functions and their molecular mechanisms
10	0104/2024/AFJ	澳門大學 Universidade de Macau	李海峰 Li, Haifeng	熵工程调控Mg3(Sb, Bi)2基新型热电材料及其结构精细表征 Entropy-Engineered Modulation of Mg3(Sb, Bi)2-Based Novel Thermoelectric Materials and their Fine Structural Characterization

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11	0122/2024/AFJ	澳門大學 Universidade de Macau	蔡永青 Cai, Yongqing	基于二维超结构的新奇量子态构筑与调控 Construction and Manipulation of Exotic Quantum States Based on Two-dimensional Superlattice
12	0134/2024/AFJ	澳門大學 Universidade de Macau	殷灝 Ian, Hou	基于相干伊辛机的算法加速机制与拓展 Algorithmic acceleration principles and extensions based on coherent Ising machine
13	0135/2024/AFJ	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	李曉東 Li, Xiao Dong	基於多電壓等級柔性串並聯架構的海上風電直流匯集系統變換裝備和穩定運行關鍵技術研究 Research on power converters and system stability of the offshore wind farm dc collection system based on multi-voltage levels flexible series-parallel structure
14	0139/2024/AFJ	澳門大學 Universidade de Macau	沈仲燮 Shim, Joong Sup	靶向肿瘤基因突变的免疫增敏药物开发及其机制研究 Development and mechanistic study of immune-sensitizing drugs targeting tumor gene mutations
15	0142/2024/AFJ	澳門大學 Universidade de Macau	黃冠豪 Wong, Koon Ho	人類病原真菌生理依賴毒力因子的鑑定 Identification of physiological state-associated virulence factors in human fungal pathogens
16	0147/2024/AFJ	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	數據與知識聯合驅動的智能系統研究及增材製造技術應用 Data and Knowledge Joint-Driven Intelligent Systems Research and Technological Applications in Additive Manufacturing

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17	0151/2024/AFJ	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	梔子豉湯通過調控腸- 肝/腦軸氨基酸代謝靶向Keap1/Nrf2通路減毒增效的配伍機制 研究 Study on the mechanism of Zhizichi decoction reducing toxicity and increasing efficacy targeting Keap1/Nrf2 pathway via gut- liver/brain axis and amino acids metabolism
18	0158/2024/AFJ	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	徐懿 Xu, Yi	極化雷達火星淺表層結構成像與物性研究 Research on Martian Shallow Surface Geological Structure Imaging and Dielectric Property with Polarization Radar