

List of PolyU Projects funded under NSFC/RGC Joint Research Scheme 2025/26

Research Field	Project Title	Hong Kong Project Coordinator	Mainland Principal Investigator/ Institution
Medicine	Engineering Microbiota-feedback Bioorthogonal Labeling Toolkits to Realize Precision Imaging of Gastrointestinal Inflammation	Prof. Bengang Xing Chair Professor of Chemical Biology, Department of Applied Biology and Chemical Technology	Prof. Zhen Cheng, Shanghai Institute of Materia Medica, Chinese Academy of Sciences
Medicine	Mechanoageing in Metabolic Osteoarthritis: From Cartilage Degeneration to Immune Dysregulation	Dr Man-ting Au, Research Assistant Professor, Department of Biomedical Engineering	Prof. Huiling Cao, Southern University of Science and Technology
New Materials Science	Research on Novel Room-Temperature Mid-to-Long Wave Infrared Position-Sensitive Detection and Its Application in Visualized Trajectory Tracking	Prof. Yuen-hong Tsang, Professor, Department of Applied Physics	Prof. Di Wu, Zhengzhou University
New Materials Science	Novel Superconducting Systems for Outer Space Exploration: From Materials, Modeling to Applications	Prof. Kwok-tong Chau, Chair Professor of Electrical Energy Engineering, Department of Electrical and Electronic Engineering	Prof. Wei Hua, Southeast University
New Materials Science	Constructing multiscale polar architecture in relaxor ferroelectric single crystals for achieving both high phase transition temperature and superior piezoelectricity	Prof. Zibin Chen, Assistant Professor, Department of Industrial and Systems Engineering	Prof. Fei Li, Xi'an Jiaotong University
New Materials Science	Interfacial ion/electron exchange and transfer mechanisms for zinc metal anodes: fundamental investigations and stabilization strategies	Prof. Zheng-long Xu Associate Professor, Department of Industrial and Systems Engineering	Prof. Baoyu Xia Huazhong, University of Science and Technology
New Materials Science	Investigation on energy storage mechanism of rechargeable carbon-fixed Zn-CO2 flow battery based on nanoparticle suspension	Prof. Maochun Wu Assistant Professor, Department of Mechanical Engineering	Prof. Yurong He, Harbin Institute of Technology
New Materials Science	Developing a database and computational platform to predict material properties of non-fullerene acceptors in organic solar cells	Prof. Chen Zhang, Assistant Professor, Department of Computing	Prof. Fei Huang, South China University of Technology
Others	Robust GNSS Navigation with the Aids of Multi-Sensor Fusion for Urban Air Traffic Management	Prof. Li-ta Hsu, Associate Professor, Department of Aeronautical and	Prof. Rui Sun, Nanjing University of Aeronautics and Astronautics

		Aviation Engineering	
Others	Optimizing multi-modal coordination for urban rail network resilience	Prof. Anthony Chen, Associate Head (Teaching) and Professor, Department of Civil and Environmental Engineering	Prof. Xiangdong Xu, Tongji University
Others	Cyber-physical Coordinated Control and Defense Methods for Grid-forming Distributed Energy Resource Clusters in Greater Bay Area Megacities	Prof. Siqi Bu Associate Head (Research) and Professor, Department of Electrical and Electronic Engineering	Prof. Jiebei Zhu, Tianjin University