

Press Release 新聞稿

## Appendix

Project	Lead Researcher	Funding Amount (HK\$)
Engineering a microbial biosensor for monitoring microplastics pollution	Dr CHUA Song Lin, Assistant Professor, Department of Applied Biology and Chemical Technology	499,000
Development of Novel Photocatalytic Technology for Solar-driven Simultaneous Hydrogen Production and Pollutant Degradation from Wastewater	Dr HO Cheuk-lam, Assistant Professor, Department of Applied Biology and Chemical Technology	500,000
Green Conversion of Microalgal Biomass into High Value Products	Dr YUNG Ka-fu, Associate Professor, Department of Applied Biology and Chemical Technology	498,000
Optimal design of high performance textile-based solar steam generator by tunable capillary evaporation	Dr SHOU Dahua, Assistant Professor, Institute of Textiles and Clothing	485,300
Innovative Bifacial Solar Photovoltaic: from theoretical model to its practical application in Hong Kong	Ir Prof. LU Lin Vivien, Professor, Department of Building Environment and Energy Engineering	494,000

## PolyU's ECF 2021-22 Funded Projects



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Project	Lead Researcher	Funding
		Amount
		(HK\$)
World Meteorological	Ir Prof. GUO Hai, Professor,	500,000
Organization (WMO) - Global	Department of Civil and	
Atmosphere Watch (GAW) VOC	Environmental Engineering	
Expert Workshop		
Study of High Purity Oxygen	Dr LEU Shao Yuan, Associate	1,999,800
Aeration for Biological Polishing	Professor, Department of Civil	
of Chemical Enhanced Primary	and Environmental	
Treated Sewage Effluent and	Engineering	
Cellulase Production from Sludge		
Recycling yard waste into new-	Prof. Dan TSANG, Professor,	1,179,557
generation biochar adsorbents for	Department of Civil and	1,177,557
CO <sub>2</sub> and VOCs removal	Environmental Engineering	
	Environmental Engineering	
Climate-Resilient Planning and	Dr WANG Shuo, Assistant	490,600
Design for Coastal Stormwater	Professor, Department of Land	
Drainage Systems	Surveying and Geo-Informatics	
A multi-source remote sensing	Prof. Charles Man-sing	1,920,520
based technique for monitoring	WONG, Professor, Department	
oil spills	of Land Surveying and Geo-	
	Informatics	



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Intelligent monitoring and	Dr WANG Minghao, Research	499,000
diagnosis platform for second-life	Assistant Professor,	
battery energy storage systems	Department of Electrical	
based on artificial intelligence and	Engineering	
internet of things technologies		
Developing high power electric	Dr XU Zhenglong, Assistant	464,400
vehicle (EV) chargers using waste	Professor, Department of	
graphite and separators derived	Industrial and Systems	
from end-of-life EV batteries	Engineering	
GPS-assisted Smart Robot with	Dr CHU Kar Hang Henry,	499,400
Self- exploration Ability for Litter	Assistant Professor,	
Pick-up and Sorting on Curved	Department of Mechanical	
Hillsides	Engineering	
	Total	10,029,577