

## Issue 63 (January 2025)

## **Faculty Achievement**



Congratulations to the following faculty

College of Engineering

members for winning the NSFC/RGC funds. Collaborative Research Scheme (CRS)

**Project Proposal** Coordinator

1D van der Waals Atomic Chains Prof Johnny HO, Department of for 3D-integrated Retinomorphic Materials Science Optoelectronics and Engineering **Prof ZENG** Theoretically Guided Material Xiaocheng, Design, Syntheses and Device

Department of

and Engineering

Electrical

Joint Research Scheme (JRS) **Project Proposal** Coordinator Prof CHEN Jie, Efficient, Trustworthy and Safe Department of Learning-Based Controller Design

and Analysis

Tandem Solar Cells

Materials Science Stable Perovskite/Organic

Engineering for Efficient and

Engineering **Prof Michael** Research on basic scientific issues and applied technologies for TSE, Department of electric-field coupled wireless Electrical power transfer systems Engineering



**Faculty Achievement** 

Prof CHEUNG Sai On received the 2024 QS Award of Excellence from the Quantity

Engineering

Department of Architecture and Civil

Surveying Division of the Hong Kong Institute of Surveyors for his innovations in quantity surveying education and pioneering construction dispute research. This biannual award is presented to honour quantity surveyors for their significant and valuable contribution to the development and promotion of the quantity surveying profession in and extending beyond Hong Kong.

Faculty Achievement



### published a paper titled Urban skies

University of Science and Technology

GUO Yongxin and scholars from Nanjing

safeguarded: innovative drone detection with programmable metasurface periscope in Nature Communications. It introduces an angle-insensitive programmable metasurface for drone detection in urban areas, enabling successful tracking even in non-line-of-sight scenarios obstructed by buildings. Faculty Achievement

Faculty Achievement



Research Grants Council (RGC) for his

with the Early Career Award by the

outstanding research contributions. His project, titled Comprehensive Exploration and Application of Bismuth Silicate as an Advanced vdW Dielectric, has been successfully granted funding under the RGC Early Career Scheme (ECS) 2024/25 cycle. From a total of 634 applications for the ECS in 2024/25, thirteen emerging scholars were selected to receive the Early Career Awards, with Prof Huang being among the distinguished recipients. **Faculty Achievement** 



**Team Members** 

Prof WANG Cheng

Prof Henry CHUNG

Prof Ricky LAU Mr WEI Zhengqi Dr CHENG Chun

Mr LIU Chun For

(2)

event.

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Pnotonic	• Dr CHEN Znaoxi
Processing Engine	<ul> <li>Dr FENG Hanke</li> </ul>
	<ul> <li>Dr ZHANG Ke</li> </ul>
(Kokoxili Photonics	<ul> <li>Mr GE Tong</li> </ul>
Limited, HK Tech	
300)	

Asia Exhibition of Innovations and

Award |Niobate Microwave |(team leader)

**Project Title** 

Integrated Lithium

Inventions.

Prize

Gold

Silver

		Energy Routing and Redistribution Technology for Large-Scale Battery Storage Systems with Health Monitoring Capabilities	(team leader) • Prof Ricky La • Mr WEI Zher • Dr CHENG ( Sing • Mr LIU Chun	
Faculty Achievement				

Autonomous

Engineering

preparation of solution-processable WS2 mono- or bilayers in *Nature Synthesis*. They achieved phase-switchable preparation of WS2 mono- or bilayers by controlling electrochemical exfoliation parameters. They found that varying discharge current densities and cutoff voltages led to distinct semiconducting or semimetallic phases in WS2 layers. Through advanced microscopy and spectroscopy techniques, they elucidated the phase-switching mechanism. The demonstrated humidity sensor application

Department of Materials Science and

published a paper titled Phase-switchable

Prof ZENG Zhiyuan and his team

# capabilities, confirming the potential of their 2D WS2 production for device applications. Student Achievement

highlighted phase-dependent sensing



# Department of Electrical Engineering

Mr ONGGOWARSITO Raymonk Surya won the IET Prize 2024 for his exemplary academic achievements and active participation in out-of-classroom activities, including community services. IET stands for the Institution of Engineering and Technology.



## honour to recognise young researchers under the age of 35 for their creativity,

and surfaces. The award is the highest

research impact and contributions to the Society.

> Innovation Competition - Third Prize City University of Hong Kong

Student Achievement

### Business have clinched the third prize in the Huawei ICT Competition 2024. The College was the co-organiser of this annual

Department of Electrical Engineering

Computer Science and the College of

Mr CHAN Ka Shing and two other teammates from the Department of

