## **Outputs Arising from Dean's Research Fund**

## Ninth Round

Individual Research Scheme (IRS)	
Project Leader	Dr Wong Yee Hang Mathew, SSPS
Project Title (Ref No.)	Assessing China's External Investments: A Review (IRS-1)
Output:	Journal/ book  1. Wong, Mathew* Downes, James, Journal of Chinese Political Science (2023 under review)
	Conference Year: 2023 Name: Mid-West Political Science Association Conference Title: Building Influence or Buying Friends? Reconsidering Participation and Impact of China's Belt and Road Initiative (With James F. Downes)  External Grant 1. GRF Reconsidering the Impact of China's Belt and Road Initiative and Foreign Economic Linkages (Date of application: November 2022)
Project Leader	Dr Au Ka Man, SES
Project Title (Ref No.)	Synthesis of biologically compatible metal-organic frameworks based on main group metals ( <i>IRS-2</i> )
Output:	<ol> <li>Journal/ book</li> <li>Chen Wu, Kam-Hung Low, Vonika Ka-Man Au*, Efficient removal and sensing of copper(II) ions by alkaline earth metal-based metal-organic frameworks. J. Solid State Chem. 2023, 322, 123936. (2023)</li> <li>Chen Wu, Kam-Hung Low, Vonika Ka-Man Au*, Efficient removal and sensing of copper(II) ions by alkaline earth metal-based metal-organic frameworks. J. Solid State Chem. 2023, 322, 123936. (2023)</li> <li>Chen Wu, Kam-Hung Low, Vonika Ka-Man Au*, Efficient removal and sensing of copper(II) ions by alkaline earth metal-based metal-organic frameworks. J. Solid State Chem. 2023, 322, 123936. (2023 Not Yet Published)</li> </ol>
Project Leader	Dr Li Wai Chin, SES
Project Title (Ref No.)	The role of root system architectures on cadmium accumulation in rice and the underlying mechanisms (IRS-3)

Output:	Journal/ book
Output:	<ol> <li>CHI, Y., TAM, N. F., LI, W. C.* &amp; YE, Z., Multiple geochemical and microbial processes regulated by redox and organic matter control the vertical heterogeneity of As and Cd in paddy soil, <i>Science of the Total Environment</i>. 839, 156229. (2022)</li> <li>XIAO, A., CHI, Y., HUANG, L., LI, W. C.* &amp; YE, Z.*, Effects of cultivar, water condition and their interactions on Cd accumulation in rice grains, <i>Ecotoxicology and Environmental Safety</i>. 262, 115168. (2023)</li> <li>ROKONUZZAMAN, M., YE, Z., WU, C. &amp; LI, W. C.*, Arsenic elevated groundwater irrigation: Farmers' perception of rice and vegetable contamination in a naturally arsenic endemic area, <i>International Journal of Environmental Research and Public Health</i>. 20 (6), 4989. (2023)</li> </ol>
	External Grant  1. GRF  Effects of Mn Oxidizing Bacteria on Mn Transformation, and Cycling of Nutrients and Heavy Metal(loid)s in Mn Mine Tailing (Date of application: November 2022)
Project Leader	Dr Man Yu Bon, SES
Project Title (Ref No.)	Health Risk Assessment of Persistent Toxic Substances in Freshwater
	Fish Fed by Fly Larvae (IRS-4)
Output:	<ol> <li>HUANG, Z-L., YANG, Z-B., XU, X-X., LEI, Y-J., HE, J-S., YANG, S., WONG, M. H., MAN, Y. B.* &amp; CHENG, Z.*, Health risk assessment of mercury in Nile tilapia (Oreochromis niloticus) fed housefly maggots, <i>Science of the Total Environment</i>. 852, 158164. (2022)</li> <li>GAO, M., YANG, Z-B., XU, X-X., XIAN, J-R., YANG, Y-X., YANG, S., MAN, Y. B. &amp; CHENG, Z.*, Using fly larvae to convert food waste for growing Oujiang color common carps: Health risk assessment of polycyclic aromatic hydrocarbons. <i>Environmental Science and Pollution Research</i>. 30, p. 43496-43504 (2023)</li> <li>PENG, R. J., ZHENG, C., YANG, Z. B., XU, X. X., WONG, M. H., MAN, Y. B. &amp; CHENG, Z.*, Selenium toxicity and bioaccumulation in selenium-enriched fly (Chrysomya megacephala) maggots. <i>Environmental Geochemistry and Health</i>. 45, p. 4493-4503 (2023)</li> </ol>

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	External Grant
	1. GRF
	Activated charcoal/biochar supplemented diet to limit uptake of
	microplastics and metals in Nile tilapia: Effect on gut microbiota and
	liver metabolisms (Date of application: November 2022)
Project Leader	Prof So Wing Mui Winnie, SES
Project Title (Ref No.)	Teachers' intention towards and competency for implementing
	interdisciplinary STEM education (IRS-5)
Output:	Journal/ book
	1.So Wing Mui Winnie, Examining factors affecting primary teachers'
	STEM teaching intention (2024 Under Preparation)
Project Leader	Dr Deng Wenjing, SES
Project Title (Ref No.)	Disinfection by-products in natural aquatic environment and drinking
	water (IRS-6)
Output:	Journal/ book
	1. LIU, J., HU, L-X., DENG, WJ*., YING, G-G., HONG, H., TSANG,
	P. K. E. & BARCELÓ, D., DBPs in natural water in Hong Kong after
	COVID-19 pilot study of pollution characteristics and ecological risk
	of disinfection by-products in natural waters in Hong Kong, Oct 2022,
	In: Environmental Toxicology and Chemistry. 41, 10, p. 2613-2621
	(2022)
	2. LIU, J., DENG, WJ*., YING, G-G., TSANG, P. K. E. & Hong, H-C.,
	Occurrence and distribution of antibiotics in surface water, Sept 2022,
	In: Ecotoxicology. 31, 7, p. 1111-1119 (2022)
	External Grant
	GRF
	Factors associated between Chinese children's dietary patterns and
	their serum concentrations of perfluorinated compounds (Date of
	application: September 2023)
Project Leader	Dr Pei Qing, SSPS
Project Title (Ref No.)	Climate change and southward nomadic migration across the Yangtze
	River during mid-to-late imperial China (IRS-10)
Output:	Journal/ book
1	1. Yiru Pei, Qing Pei, Harry F Lee Mengyuan, Qiu Yuting Yang,
	Epidemics in pre-industrial Europe: Impacts of climate change,
	economic well-being, and population / Anthropocene (2022)
	2. Mengyuan Qiu, Qing Pei, Ziyuan Lin. The geography of religions:
	2. Monthly dail Que, Quite 101, 21, and Din. The geography of fengions.

Comparing Buddhist and Taoist sacred mountains in
China/Geographical Research (2023)

Interdisciplinary Rese	earch Scheme (IDS)
Project Leader	Prof Chow Cheuk Fai, SES
Project Title (Ref No.)	Heterobimetallic Catalysts for C-H Activation and Functionalization (IDS-1)
Output:	Journal/ book  1. Cheuk-Fai Chow, Qian Tang, Cheng-Bin Gong. Catalytic Chemosensing Assay for Tandem Detection and Catalytic Amplification of Dimethoate Organophosphate Pesticide. (2023 Under preparation)  External Grant  1. GRF
	Catalyst displacement assay: design and synthesis of Prussian blue analogs-modified g-C3N4/TiO2 for selective detection, signal amplification, and degradation of organophosphate pesticides (Date of application: October 2023)
Project Leader	Dr Cheng Kwok Shing Gary, MIT
Project Title (Ref No.)	A personalized task recommendation system for vocabulary learning based on context readability and task diversity for university graduates (IDS-3)
Output:	<ol> <li>Journal/ book</li> <li>Ruofei Zhang, Gary Cheng*, Di Zou. Effectiveness of game elements of digital game-based vocabulary learning in engaging learners and developing English as a foreign language vocabulary knowledge. Computers &amp; Education (<i>Under Review</i>)</li> <li>Ruofei Zhang, Gary Cheng, Di Zou*, Zhencheng Zhou. Interactions among EFL proficiency levels, application of self-regulated learning strategies, fear of failures, and motivation in self-regulated mobile-assisted vocabulary learning. Asia Pacific Journal of Education (<i>Under Review</i>)</li> </ol>
	Conference Year: Dec 2023 Bangkok, Thailand Name: The 6th International Conference on Technology in Education Title: Towards the design of a personalized vocabulary learning system for university graduates based on context readability and task diversity

Project Leader	Dr Tan Weiqiang, SSPS
Project Title (Ref No.)	Urban Education Resources and Corporate Labor Costs in China (IDS-4)
Output:	<ol> <li>Journal/ book</li> <li>Weiqiang Tan, Chenxin Xie*, Dezhu Ye*, Do urban educational resources affect corporate labor costs? (2023)</li> <li>External Grant</li> <li>GRF         <ul> <li>Customized Financial Literacy Education Programme in Rural Village in China: A Randomized Control Trial (Date of application: October 2022)</li> </ul> </li> </ol>

Dean's Research Fund	- Strategic Research Area Scheme (SRAS)
Project Leader	Prof Yu Leung Ho Philip (MIT)
Project Title (Ref No.)	An Intelligent Platform for Desk Behavior Assessment via Joint Action
	and Attention Analysis (SRAS-1)
Output:	Journal/ book
	1. R. Li, H Fu*, Y. Zheng, S. Gou*, J. Yu, X. Kong, H. Wang. "Behavior
	Analysis with Integrated Visual-Motor Tracking for Developmental
	Coordination Disorder", IEEE Transactions on Neural Systems &
	Rehabilitation Engineering, Vol. 31, pp. 2164-2173, 2023.
	2. B. Li, R. Li, W. Wang, H. Fu*. "Serial-Parallel Multi-Scale Feature
	Fusion for Anatomy-Oriented Hand Joint Detection",
	Neurocomputing, Vol. 536, pp. 59-72, June, 2023.
	3. X. Yue, H. Fu, and Philip L. H. Yu. Computational study and
	recognition performance for the closed-loop coordination between
	visual perception and finger motor: A Systematic Review in Special
	Education. (2023 under preparation)
	External Grant
	1. NSFC/RGC Joint Research Scheme 2023/24
	Artificial Intelligence Aided Diagnosis of Developmental Coordination
	Disorder in Children Based on Neuroimaging and Behaviora
	Representations with Multimodal Collaborative Learning
	(Date of application: February 2023)