

Outputs Arising from Dean's Research Fund

Third round

Seed Funding for Research Scheme (SFRS)	
Project Leader	Dr TSE Choi Yeung Andy, HPE
Project Title (<i>Ref No.</i>)	The Relationship between Attentional Focus Instruction and Reinvestment Propensity in Children's Motor Skill Acquisition (<i>SFRS-1</i>)
Output:	<p>Journal/ book</p> <ol style="list-style-type: none"> 1. TSE, A.C.Y.*van Ginneken, W., Psychology of Sports and Exercise (<i>under review</i>) 2. TSE A,C.Y.*,van Ginneken W., Children's conscious control propensity moderates the role of attentional focus in motor skill acquisition. Psychology of Sport and Exercise, 31, 35-39. (<i>2017</i>) <p>External Grant</p> <ol style="list-style-type: none"> 1. RGC Improving cognitive function in children with autism via physical activity (Date of application: 2017)
Project Leader	Dr OR Pui Lai Peggy, HPE
Project Title (<i>Ref No.</i>)	Characteristics of secondary school students engaged in risky behavior in Kwai Tsing community (<i>SFRS-2</i>)
Output:	<p>Journal/ book</p> <ol style="list-style-type: none"> 1. Or, P.P.L., Law, Q.P.S., Identification of risk and protective factors of risky behavior in adolescent in Kwai Tsing Community (<i>under preparation</i>) 2. Or, P.O.L.*, Law, Q.P.S., Identifying protective factors that help secondary school students avoid risky behaviors in Hong Kong- Journal of School Health (<i>under review</i>) <p>External Grant</p> <ol style="list-style-type: none"> 1. PPR The role of family in avoiding young people engaged in risky behavior in Hong Kong
Project Leader	Ms LAW Pui Sze, HPE
Project Title (<i>Ref No.</i>)	A preliminary study on nutrition literacy among Chinese adults in Hong Kong (<i>SFRS-3</i>)
Output:	<p>Journal/ book</p> <ol style="list-style-type: none"> 1. Queenie Pui Sze Law, Alice Hoi Ying Yau, Joanne Wai Yee Chung, Public Health Nutrition (<i>under review</i>)

	2. Law, P. S. *, Yau, A. & Chung, W. Y. Nursing and Health Science Chinese Adults' Nutrition Label Literacy in Hong Kong: Implications for Nurses, Nursing and Health Sciences (2018)
Project Leader	Dr CHEUNG Ka Luen, MIT
Project Title (Ref No.)	An investigation on the blowup problem for the N-dimensional non-isentropic compressible Euler equations (SFRS-4)
Output:	<p>Journal/ book</p> <ol style="list-style-type: none"> Cheung, Ka Luen, Blowup Phenomena for the N-dimensional Compressible Euler Equations with Damping/ Zeitschrift für angewandte Mathematik und Physik, 68:27, 1-8 (2018) Cheung, Ka Luen,, Blowup of Solutions for the IBVP of the 3-dimensional Compressible Damped Euler Equations./ (Preprint: submitted to Mathematical Methods in the Applied Sciences) (<u>under review</u>) <p>External Grant</p> <ol style="list-style-type: none"> GRF Global and Blowup Solutions for the Compressible Euler Equations with Sign-changing Pressures (Date of application: October 2017)
Project Leader	Dr NG Fung Sheung Isabella, APS
Project Title (Ref No.)	Framing consent? – An investigation of Hong Kong news media' framing effect on Hong Kong people about Ethnic minority illegal migrants (SFRS-5)
Output:	<p>Journal/ book</p> <ol style="list-style-type: none"> Isabella Ng*, Fungyee Choi, Alex L.S. Chan, Initially will submit to international migration review, and if not accepted, will be to international migration or political geography (<u>under preparation</u>) Isabella NG*, Fungyee Choi, Alex LS Chan, Framing the asylum-seekers and refugees for tougher refugee policy – A study of the Media portrayal in Post-colonial Hong Kong, Journal of International Migration and Integration (Impact Factor: 0.809 SCimago Anthropology Q1, Cultural studies Q1, Demography Q2 (<u>under review</u>)) <p>Conference</p> <ol style="list-style-type: none"> APISA Title: Framing the Issue of Asylum Seekers and Refugees for Tougher Refugee Policy – A Study of the Media's Portrayal in Post—colonial Hong Kong

	<p>External Grant</p> <ol style="list-style-type: none"> GRF Surviving as stateless when the global local collide – space, place, the local the asylum-seekers and refugees in postcolonial Hong Kong – A livelihood perspective (Date of application: March 2017) GRF In local exclusivity lies global inclusion – the relational ontology of asylum-seekers and refugees and local community in a post-colonial Hong Kong village (Date of application: March 2018)
Project Leader	Dr YUEN Man Wai, MIT
Project Title (<i>Ref No.</i>)	Exact Analytic Solutions and Dynamical Behaviors for the Viscous Primitive Equations of Geophysics (<i>SFRS-6</i>)
Output:	<p>Journal/ book</p> <ol style="list-style-type: none"> Wai Hong Chan, Engui Fan, Manwai Yuen*, The Cartesian Analytical Solutions for the N-dimensional Compressible Navier-Stokes Equations with Density-dependent Viscosity (<i>under review</i>) Huiwen Bai, Kwok Wing Chow*, Engui Fan, Manwai Yuen, Exact Solutions for the Shallow Water Equations in Two Spatial Dimensions: A Model for Finite Amplitude Rogue Waves (<i>under preparation</i>) Manwai Yuen*, Blowup for Projected 2-dimensional Rotational C1 Solutions of Compressible Euler Equations (<i>under review</i>) <p>External Grant</p> <ol style="list-style-type: none"> GRF Symmetry Reduction and Analytical Solutions for the Viscous Primitive Equations in Geophysics (Date of application: 10 November 2016)
Project Leader	Dr YIM Kim Ping, CCA
Project Title (<i>Ref No.</i>)	Understanding Photojournalism as Creative Social Action: Opening Up an Educational Space for Humanitarian World Views (<i>SFRS-7</i>)
Output:	<p>Journal/ book</p> <ol style="list-style-type: none"> YIM, Kim Ping , Implementation of “Care for Others” in Hong Kong Arts Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 6): Prospects and Directions. Asia-Pacific Journal for Arts Education 亞太藝術教育學報 (<i>under review</i>) YIM, Kim Ping, Implementation of “Care for Others” in Hong Kong Arts Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 6): Prospects and Directions, Asia-Pacific Journal for Arts Education 亞太藝術教育學報 (<i>2017</i>)

	<p>External Grant</p> <p>1. GRF</p> <p>Establishing the Educational Value of Hong Kong-Based Social Documentary Photography: An Art Education Perspective (Date of application: 18 November 2016)</p>
Project Leader	Dr TSANG Yiu Fai, SES
Project Title (<i>RefNo.</i>)	Utilization of Food Waste as Substrate for Biosynthesis of Biodegradable Plastics for Industrial Applications (<i>SFRS-8</i>)
Output:	<p>Journal/ book</p> <ol style="list-style-type: none"> 1. Tsang, Y.F., Kumar, V., Samadar, P., Yang, Y., Lee, J., Ok, Y.S., Song, H., Kim, K.H.*, Kwon, E.E.* & Jeon, Y.J., Production of bioplastic through food waste valorization. <i>Environment International</i>, 127, 625-644. (<i>2019</i>) 2. Cheng, W.N., Yi, H., Yu, C.F., Wong, H.F., Wang, G., Kwon, E.E. & Tsang, Y.F.*, Biorefining waste sludge from water and sewage treatment plants into eco-construction material. <i>Frontiers in Energy Research</i>, 7, 22. (<i>2019</i>) 3. Wang, H.W., Tsang, Y.F.*, Wang, Y.N., Sun, Y.J., Zhang, D.Y.& Pan, X.L.*, Adsorption capacities of poorly crystalline Fe minerals for antimonate and arsenate removal from water: Adsorption properties and effects of environmental and chemical conditions. <i>Clean Technologies and Environmental Policy</i>, 20, 2169-2179. (<i>2018</i>) 4. Wang, H.W., Wang, Y.N., Sun, Y.J., Pan, X.L.*, Zhang, D.Y.& Tsang, Y.F.*, Differences in Sb(V) and As(V) adsorption onto a poorly crystalline phyllosmanganate (δ-MnO₂): Adsorption kinetics, isotherms, and mechanisms. <i>Process Safety and Environmental Protection</i>, 113, 40-47. (<i>2018</i>) 5. Lam, W., Wang, Y.J., Chan, P.L., Chan, S.W., Tsang, Y.F.*, Chua, H.& Yu, P.H.F*, Production of polyhydroxyalkanoates (PHA) using sludge from different wastewater treatment processes and the potential for medical and pharmaceutical applications. <i>Environmental Technology</i>, 38, 1779-1791. (<i>2017</i>) <p>External Grant</p> <p>1. GRF</p> <p>Synergistic effect between chemoautotrophs and heterotrophs in microbial CO₂ fixation and the mechanism in releasing feedback inhibition of extracellular free organic matter generated by chemoautotrophs to carbon fixing process (Date of application: November 2016)</p>

Bridge Funding for Research Scheme (BFRS)	
Project Leader	Dr CHOW Cheuk Fai Stephen, SES
Project Title (<i>Ref No.</i>)	Development and Application of Novel Supramolecular Devices for Detecting and Destroying of Pesticides (<i>BFRS-2</i>)
Output:	<p>Journal/ book</p> <ol style="list-style-type: none"> 1. Chow, C. F. *, Ho, P. Y., Wong, W. L., Lu, Y. J., Tang, Q., Gong, C. B., Catalyst Displacement Assay: A Supramolecular Approach for the Design of Smart Latent Catalysts for Pollutant Monitoring and Removal. <i>Chemical Science</i>, 8, 3812-3820. (<i>2017</i>) 2. Chow, C. F. *, Ho, P. Y., Lu, Y. J., Wong, W. L., Tang, Q., Gong, C. B., Development of Sensitive and Selective Food Sensors Using New Re(I)-Pt(II) Bimetallic Complexes to Detect Volatile Biogenic Sulfides Formed by Meat Spoilage. <i>Food Chemistry</i>, 216, 382-389. (<i>2017</i>) <p>External Grant</p> <ol style="list-style-type: none"> 1. GRF Catalyst Displacement Assay: A Supramolecular Approach for the Design of New Latent Catalysts for Toxic Substances Monitoring and Removal (Date of application: November 2016)
Project Leader	Dr DENG Wenjing, SES
Project Title (<i>Ref No.</i>)	Occurrence and Risk Assessment of Algal Toxins in Marine Water of Hong Kong (<i>BFRS-3</i>)
Output:	<p>Journal/ book</p> <ol style="list-style-type: none"> 1. Chai Yemao, Deng Wen-jing, Qin X., Xu Xiangrong, Occurrence of Four Species of Algae in Marine Water of Hong Kong. <i>Marine Pollution Bulletin</i> http://doi.org/10.1016/j.marpolbul.2016.12.043 (<i>2016</i>) 2. Deng Wen-Jing, Li N., Ho WKK, Occurrence and Risk Assessment of Algal Toxins in Marine Water of Hong Kong (<i>under preparation</i>) 3. Deng Wen-Jing, *, John P. Giesy, So C.S., Zheng Hai-Long, End-of-life (EoL) mobile phone management in Hong Kong Households. <i>Journal of Environmental Management</i> 200: 22-28. (<i>2016</i>) 4. Deng Wen-Jing, *, Zheng Hai-Long, Tsui Anita K.Y., Chen Xun-Wen, Measurement and health risk assessment of PM2.5, flame retardants, carbonyls and black carbon in indoor and outdoor air in kindergartens in Hong Kong. <i>Environment International</i> 96: 65–74. (<i>2016</i>) 5. Li Na, Ho Keith W.K., Ying Guang-Guo, Deng Wen-Jing*, Veterinary

	<p>antibiotics in food, drinking water, and the urine of preschool children in Hong Kong. <i>Environment International</i> 108: 46–252. (2017)</p> <p>Conference</p> <p>1. 8th International Conference on Marine Pollution and Ecotoxicology Title: Occurrence of Four Species of Algae in Marine Water of Hong Kong</p> <p>External Grant</p> <p>1. GRF School Children’s exposure to veterinary antibiotics from food and drinking water and risk of obesity in Hong Kong (Date of application: November 2016)</p>
Project Leader	Dr LAI Yiu Chi, MIT
Project Title (<i>Ref No.</i>)	Exploring Assessment Strategies in Flipped Classroom Approach (<i>BFRS-4</i>)
Output:	<p>Journal/Book</p> <p>1. Lai, Yiu Chi, YANG, Rui Qian , Teaching ICT with Flipped Classroom Approach in Higher Education Settings. <i>Journal of Research in Science, Mathematics and Technology Education</i> (2018)</p> <p>Conference</p> <p>1. Ace-id2017: The Asian Conference on Education & International Development Title: Flipping the Classroom: Changing the Pedagogy of Teacher Education</p> <p>External Grant</p> <p>1. GRF Developing Computational Thinking in Lower Primary Classes with Educational Robots and a Mix-and-Match Approach: An exploratory study (Date of application: 6 November 2017)</p>
Project Leader	Dr PAN Suyan, SSC
Project Title (<i>Ref No.</i>)	Civic Engagement, Higher Education, and Learning for Citizenship: The Experience of University Students in Hong Kong (<i>BFRS-5</i>)
Output:	<p>Journal/ book</p> <p>1. Suyan Pan and Joe Tin-yau Lo, Higher Education and China’s Global Rise: A Neo-tributary Perspective, Routledge; <i>Research in International and Comparative Education Series</i> (2018)</p> <p>2. Suyan Pan, The Evolving Citizenship – University Relations in Hong Kong: A Paradoxical Global-National-Local Configuration, Target journal: <i>Discourse: Studies in the Cultural Politics of Education</i></p>

	<p><i>(Under review)</i></p> <p>3. Suyan Pan, Changing Ideas of Citizenship: Hong Kong Youth's Perceptions of Identity and Civic Participation, Target journal: Citizenship Studies; SSCI; Taylor & Francis. <i>(Under preparation)</i></p> <p>4. Pan S. *, Identity, civic engagement, and learning about citizenship: university students' experience in Hong Kong, Compare: A Journal of Comparative and International Education <i>(Under review)</i></p> <p>External Grant</p> <p>1. GRF</p> <p>Reflection on the Rationales and Realities of International Student Exchange in the Era of Globalization: The Case of Hong Kong (Date of application: 15 November 2017)</p>
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Dean's Strategic Research Area Fund (DSRAF)	
Project Leader	Prof LEUNG Bo Wah, CCA
Project Title (<i>Ref No.</i>)	Cantonese Opera: Transmission for sustainability in Hong Kong (<i>DSRAF-2</i>)
Output:	<p>Journal/ book</p> <p>1. Leung, B. W., Mok, M. M. C., Kuo, B. C., Liu, Z. Y., Lam, S. M., Ng, C. W., Cheng, L., Ma, K. H. H. & Choi, T.W. , An Assessment of Learning Cantonese Opera Movement in Hong Kong: Application of the Computerised Kinetic Chain Assessment and Learning System / Routledge Handbook on Schools and Schooling in Asia <i>(2018)</i></p> <p>Conference</p> <p>1. 20th Global Chinese Conference on Computers in Education Title: Performing Arts of the "SANG" role in Cantonese Opera: Computerised Kinetic Chain Assessment and Learning System in Cantonese Opera Movement.</p>
Project Leader	Prof CHUNG Wai Yee Joanna, HPE
Project Title (<i>Ref No.</i>)	Adding Health to Longevity: Building a Health Literate Hong Kong (<i>DSRAF-3</i>)
Output:	<p>Journal/ book</p> <p>1. Wong, B. Y.M.*, Smith, G., So H. C. F., Or, P. L.. P, Law, Q. P. S. & Chung, J. W. Y., Health literacy across the general population of Hong Kong: A cross-sectional study. Journal of Clinical Nursing <i>(Under Review)</i></p> <p>2. Wong, B. Y.M.*, Smith, G., So H. C. F., Or, P. L.. P, Law, Q. P. S. & Chung, J. W. Y., Associations between health literacy and</p>

	<p>cardiovascular risk factors among adults in Hong. BMC Public Health <i>(Under Review)</i></p> <p>3. Zhang, F. F., Or, P. P. L. * & Chung, J. W. Y., The effects of health literacy in preventive health practice among community-dwelling older adults in Hong Kong. BMC Geriatric <i>(2020)</i></p> <p>4. Or, P. P. L.*, Wong, B. Y. M. & Chung, J. W. Y. To investigate the association between the health literacy and hand hygiene practices of the older adults to help them fight against infectious diseases in Hong Kong. American Journal of Infection Control. <i>(2020)</i></p> <p>External Grant</p> <p>1. GRF Health Profiling of Construction Workers in Hong Kong (Date of application: Feb 2017)</p>
Project Leader	Prof WU Shiu Sun Rudolf, SES
Project Title (<i>Ref No.</i>)	Environmental Sustainability as a Strategic Research Area (<i>DSRAF-6</i>)
Output:	<p>1. Deng, W., Li N., Wu, R.S.S.* & Ho W.K.*, Phosphorus flame retardants and Bisphenol A in indoor dust and indoor PM2.5 in kindergartens and primary schools in Hong Kong. Environmental Pollution, 235, 365-371. <i>(2018)</i></p> <p>2. Li N., Deng, W., Ho W.K., Wu, R.S. S.* & Wang, Z, Phosphorus flame retardants and bisphenol A in children's urine in Hong Kong: has the burden been underestimated?, Environmental Science and Technology <i>(Under Review)</i></p> <p>3. Chiu, J.M.Y., Po, B.H.K., Degger, N., Tse, A., Liu, W.H., Zeng G., Zhao, D.M., Xue, D., Richardson, B. & Wu, R.S.S.*, Contamination and risk implications of endocrine disrupting chemicals along the coastline of China: A systematic study using mussels and semipermeable devices. Science of the Total Environment, 624, 1298-1307. <i>(2018)</i></p> <p>4. Wang, H.W., Tsang, Y.F.*, Wang, Y.N., Sun Y.J., Zhang, D.Y. & Pan, X.L.*, Comparative adsorption of antimonate and arsenate on ferrihydrite: Adsorption properties and effects of environmental and chemical conditions. Clean Technologies and Environmental Policy. (under review)</p> <p>5. Man, Y.B., Chow, K.L., Tsang, Y.F., Lau, F.T.K., Fung, W.C. & Wong, M.H.*, Fate of bisphenol A, perfluorooctanoic acid and perfluorooctanesulfonate in two different types of sewage treatment works in Hong Kong. Chemosphere, 190, 358-367 <i>(2018)</i></p> <p>6. Wang, H.W., Wang, Y.N., Sun, Y.J., Pan, X.L.*, Zhang, D.Y. & Tsang,</p>

	<p>Y.F.* , Differences in Sb(V) and As(V) adsorption onto a poorly crystalline phyllophanate (γ-MnO₂): Adsorption kinetics, isotherms, and mechanisms. <i>Process Safety and Environmental Protection</i>, 113, 40-47. <u>(2018)</u></p> <p>7. Wang, H.W., LI, X. Y., Sun, Y.J., Hao, Z.P., Wang, Y.N.* , LI, W.H., Tsang, Y.F.* , Transformation of dissolved organic matter in concentrated leachate from nanofiltration during ozone-based oxidation processes (O₃, O₃/H₂O₂ and O₃ UV). <i>Journal of Environmental Management</i>, 191, 244-251. <u>(2017)</u></p> <p>8. Yang, Y., OK, Y.S., Kim, K.H., Kwon, E.E. & Tsang Y.F.* , Occurrences and removal of pharmaceuticals and personal care products (PCCPs) in drinking waters and water/sewage treatment plants: A review. <i>Science of the Total Environment</i>, 596-597, 303-320 <u>(2017)</u></p> <p>9. Lam, W., Wang, Y.J., Chan, P.L., Chan, S.W., Tsang, Y.F. * , Chua, H. & Yu, P.H.F. * , Production of polyhydroxyalkanoates (PHA) using sludge from different waste water treatment processes and the potential for medical and pharmaceutical applications. <i>Environmental Technology</i>, 38(13-14), 1779-1791 <u>(2017)</u></p> <p>10. Chow, C.F. * , Ho, P.Y., Wong, W.L. * , Lu, Y.J., Tang, Q. Gong, C.B., Catalyst displacement & assay: a supramolecular approach for the design of smart latent catalysts for pollutant monitoring and removal . <i>Chem, Sci.</i> 8, 3812-3820 <u>(2017)</u></p>
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