

Outputs Arising from Dean's Research Fund

First round

Individual Research Scheme (IRS)	
Project Leader	Dr. VYAS Lina, APS
Project Title (<i>RefNo.</i>)	Outsourcing Human Resource Functions: Exploring the causes and consequences in an Asian context (<i>IRS-1</i>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> 1. Vyas Lina., An Entrepreneurial Approach To Human Resource Management in The Public Sector: Perspectives From Hong Kong, Malaysia, And Thailand, Entrepreneurial Rise in South-East Asia: The Quadruple Helix Influence on Technological innovation, Palgrave MacMillan, Publications, New York (<u>2015</u>) 2. Vyas Lina., Human resource management (HRM) outsourcing in the Asian public sector – a probe into the achievability and consequences in Hong Kong, Malaysia, and Thailand, Journal of Asian Public Policy, Vol 9, No. 33, pp. 308-345 (<u>2016</u>) 3. Vyas Lina., Outsourcing of Human Resource Management, Global Encyclopedia of Public Administration and Public Policy, Springer (<u>2016</u>) <p>External Grant</p> <ol style="list-style-type: none"> 1. GRF Enhancing job- and health-related outcomes for Hong Kong SME employees: An intervention study on supervisor support (Date of application: 2016-17)
Project Leader	Dr. YU Kar Ming, SAO (APS)
Project Title (<i>RefNo.</i>)	Household Energy-Saving Behavior in Hong Kong (<i>IRS-2</i>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> 1. Lewis Ting On Cheung, Alice Sin Yin Chow, Lincoln Fok, Kee Lee Chou, and Kar Ming Yu, Energy Efficiency (<u>2016</u>) <p>External Grant</p> <ol style="list-style-type: none"> 1. GRF The Gap between the poor and the rich: Financial literacy among the youth in Hong Kong (Date of application: 1 November 2013)
Project Leader	Dr. CHEUNG Pui Yee Peggy, HPE
Project Title (<i>RefNo.</i>)	After-school physical activity participation of school children in Hong Kong (<i>IRS-4</i>)
Output:	Journal /book

	<p>1. Cheung PY, School-based Physical Activity: Are they associated with children daily physical activity? European Physical Education Review (<u>under preparation</u>)</p> <p>Conference</p> <p>1. The International Society of Behavioral Nutrition and Physical Activity (ISBNPA) Annual Meeting 2017 Title: Children and Parent Perception on After-school Physical Activity Participation</p> <p>2. 20th Annual the European college of Sport Science Title: Physical Activity during PE lesson and after-school hours: Are they associated with children daily physical activity?</p> <p>External Grant</p> <p>1. GRF Effect of an after-school program – “ ACTIVE TOGETHER” on children’s physical activity and academic performance: A cluster-randomized controlled trial</p>
Project Leader	Prof. CHOW Hung Kay Daniel, HPE
Project Title (<i>Ref No.</i>)	Application of Asymmetric Loading for Postural Correction and Muscle Training in Schoolgirls with Adolescent Idiopathic Scoliosis (<i>IRS-5</i>)
Output:	<p>Journal /book</p> <p>1. Simon S.W. Li, Daniel H.K. Chow*, Effects of asymmetric loading on lateral spinal curvature in young adults with scoliosis. A preliminary study-paper submitted to Prosthetics & Orthotics International (<u>under review</u>)</p> <p>Conference</p> <p>1. The 25th Congress of the International Society of Biomechanics Title: A multi-objective optimization model for assessing spinal curvature in scoliosis</p> <p>External Grant</p> <p>1. Made a formal grant application to the UGC GRF scheme in the UGC grant call (2014/15)</p>
Project Leader	Dr. CHENG Mo Yin Vivian, SES
Project Title (<i>Ref No.</i>)	Understanding and enhancing human creativity and environmental sustainability through study of toys (<i>IRS-7</i>)
Output:	<p>Journal /book</p> <p>1. Cheng, V, M.Y., A Review of Modern and Olden Toys – In perspectives of Creativity and Sustainability, will be submitted to</p>

	<p>journal, Creativity Studies (ranked as Q1 internationally) (<u>under preparation</u>)</p> <p>2. Cheng, V, M.Y., Creative Developments for Environmental Sustainability through an Everyday Theme, Environmental Research Journal (ranked as A by EdUHK) (<u>under review</u>)</p> <p>3. Cheng, V, M.Y., A study of Creative View on Environmental Practice, Journal of Creative Behavior (ranked as A* by EdUHK) (<u>under review</u>)</p> <p>External Grant</p> <p>1. GRF Creativity training and creative development of primary students in environmental domains (Date of application: November 2016)</p>
Project Leader	Dr. CHENG Wai Lun Eddie, SSC
Project Title (<i>Ref No.</i>)	Students' online collaborative behavior in their group projects: A sector-wide study (<i>IRS-8</i>)
Output:	<p>Journal / book</p> <p>1. Cheng, E. W.L., Chu, S.K.W., and Ma, C.S.M., Tertiary students' intention to e-collaborate for group projects: Exploring the missing link from an extended theory of planned behaviour model, <i>British Journal of Educational Technology</i> (2015), DOI: 10.1111/bjet.12379 (<u>under review</u>)</p> <p>2. Cheng, E. W.L. Factors affecting primary and secondary students' intention to use web technologies (<u>under review</u>)</p>

<u>Collaborative Research Scheme (CRS)</u>	
Project Leader	Dr. LEE Yeung Chung & Dr. KWOK Ping Wai, SES
Project Title (<i>Ref No.</i>)	History of the development of knowledge of technology and science: A collective case study approach (<i>CRS-2</i>)
Output:	<p>Journal / book</p> <p>1. Lee Yeung Chung & Kwok Ping Wai, Vaccination: Exploring the relationship between science and technology (2016; to be submitted to the Journal of Biological Education)</p> <p>2. Lee Yeung Chung & Kwok Ping Wai, Ancient technology: A culturally sensitive approach to STS education (2016; to be submitted to Cultural Studies in Science Education)</p> <p>3. Lee Yeung Chung & Kwok Ping Wai, Cultural Studies in Science Education (<u>under preparation</u>)</p> <p>4. Lee Yeung Chung & Kwok Ping Wai, The historical development of vaccine technology: Exploring the relationship between science and technology (<u>pending</u>)</p>

	<p>Conference</p> <ol style="list-style-type: none"> 1. A conference paper will be prepared for presentation in a conference in 2015-16. <p>External Grant</p> <ol style="list-style-type: none"> 1. The PL has successfully applied for another GRF as an extension of another project. This GRF project is due to begin in Jan 2016.
--	--

Early Career Researchers (ECR)	
Project Leader	Dr. CHEUNG Chi Kin Kelvin, APS
Project Title (<i>RefNo.</i>)	Utilization of Family-friendly Policies in Hong Kong: Application of the Andersen Model (<i>ECR-1</i>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> 1. Chou, K.L.*, & Cheung, C. K. Family-Friendly Policies in The Workplace and their Effect on Work-life Conflicts in Hong Kong. <i>International Journal of Human Resource Management</i>, 24(20), 3872-3885 (<i>2013</i>) 2. Vyas, L.*, Lee, S. Y., & Chou, K. L. Utilization of Family-Friendly Policies in Hong Kong, <i>International Journal of Human Resource Management</i> (<i>2016</i>) <p>External Grant</p> <ol style="list-style-type: none"> 1. ECR Longitudinal linkages between family income and learning outcomes among children: Testing two underlying mechanisms (Approved on June 2014)
Project Leader	Dr. HE Jingwei Alex, APS
Project Title (<i>RefNo.</i>)	Reforming How Health Care is Governed in China: An Investigation of Public Hospital Reforms in Shenzhen and Chengdu (<i>ECR-2</i>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> 1. Alex Jingwei He* and Qingyue Meng, <i>Chinese National Healthcare Reform: On the Mend?</i>, London: Routledge (<i>2015</i>) 2. Alex Jingwei He* and Qingyue Meng, An interim interdisciplinary evaluation of China's national health care reform: emerging evidence and new perspectives, <i>Journal of Asian Public Policy</i>, 8(1) (<i>2015</i>) 3. Jiwei Qian*, Reallocating authority in the Chinese health system: an institutional perspective, <i>Journal of Asian Public Policy</i>, 8(1) (<i>2015</i>) 4. Alex Jingwei He*, The doctor-patient relationship, defensive medicine and overprescription in Chinese public hospitals: evidence from a cross-sectional survey in Shenzhen City, <i>Social Science and Medicine</i>,

	<p>123. (2014)</p> <ol style="list-style-type: none"> 5. 和經緯*、羅源昆，中國大陸公立醫院治理結構改革: 模式、局限與方向，輯於王春光編，社會政策評論(第五輯)，北京，社會科學文獻出版社 (2014) 6. 和經緯*，公共醫院醫生防禦性醫療行為及其影響因素研究 – 基於廣東省某市公立醫院醫生問卷調查的實證研究，中國衛生政策研究，7(10) (2014) 7. Alex Jingwei He*, Reforming How Public Hospitals are Governed in China: Embracing NPM in the Post-NPM Era? To be submitted to the <i>International Journal of Public Administration</i> (<u>under preparation</u>) <p>Conference</p> <ol style="list-style-type: none"> 1. 2014 Public management Research Conference Title: What do the Frontline Troops think in Health Policy Reforms: A Survey of Medical Doctors in Two Chinese Provinces 2. 2015 Australian Social Policy Conference Title: The Bonus Scheme, Motivation Crowding-out and the Doctor-Patient Relationship in Chinese Public Hospitals <p>External Grant</p> <ol style="list-style-type: none"> 1. GFR Made a formal grant application to the UGC GRF scheme in the UGC grant call (Date of application: 1 Nov 2014) Subsequently funded by the International Research Grant
Project Leader	Dr. NG Fung Sheung Isabella, APS
Project Title (Ref No.)	Integration of Immigrants from the Mainland in Hong Kong (ECR-4)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> 1. Isabella F.S. Ng; Chor-pang Chung; Kee-Lee Chou, The paper for the SSCI indexed journal Social Indicator (<u>under preparation</u>) 2. Isabella Ng, Keelee Chou, Another paper on new arrivals' Integration into Hong Kong (will submit to IMR, International Migration Review) (<u>under preparation</u>) <p>External Grant</p> <ol style="list-style-type: none"> 1. ECS Integration of female mainland migrants in Hong Kong: Wise Intervention and Peer Support Group (Date of approval: September 2015) 2. ECR Integration of female mainland migrants in Hong Kong: Wise

	Intervention and Peer Support Group (Date of Application: 2014)
Project Leader	Dr. CHEN Chi Wai, CCA
Project Title (<i>Ref No.</i>)	A Pilot Study of Primary and Secondary Pre-service Music Teachers' Concerns and Expectations about E-textbook in the Music Curriculum in Hong Kong (<i>ECR-6</i>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> 1. Jason Chen Chi Wai*, Mobile Learning: The Effectiveness of Using the Application <i>iReal Pro</i> to Practice Jazz Improvisation for Undergraduate Students in Hong Kong, <i>Journal of Music, Technology and Education(Grade A Journal)</i> (2015) 2. Jason Chen Chi Wai*, Mobile Learning: Using Application <i>Auralbook</i> to Learn Aural Skills, <i>International Journal of Music Education(Practice) online first</i> (2014) 3. Jason Chen Chi Wai*, Mobile Learning and ICT in Music Education in Hong Kong, <i>Oxford Handbook of Music Technology and Education (invited book chapter by editor)</i> (2015) <p>External Grant</p> <ol style="list-style-type: none"> 1. GRF Music Composition Intelligence: an empirical study to observe compositional approaches and compositional thinking during the creative process of computer-assisted composition in secondary school (Date of Application: 15 Oct 2015) <p>Workshop</p> <ol style="list-style-type: none"> 1. LTTC Blended Learning Workshop (1) – Mobile Learning in Music Education: from Research to Practice
Project Leader	Dr. CHUNG Ming Yan Louisa, HPE
Project Title (Ref No.)	Integrating behavioural feedback in nutrition e-learning – a randomized controlled study in changing nutrition behavior for secondary students (<i>ECR-7</i>)
Output:	<p>Journal/ book</p> <ol style="list-style-type: none"> 1. Chung, L. M .Y., The role of behavioral feedback in nutrition education for enhancing nutrition knowledge and improving nutrition behavior among adolescents. (<i>under review</i>) <p>Conference</p> <ol style="list-style-type: none"> 1. 3rd International Conference and Exhibition on Nutrition & food Sciences. Title: New Approach in nutrition education: electronic dietary recording and self-monitoring.

	<p>External Grant</p> <ol style="list-style-type: none"> GRF & ECR The role of behavioural feedback in changing nutrition behaviour: A process of content creation, self-monitoring and reflection in nutrition education (Date of application: Nov 2015 / Nov 2014)
Project Leader	Dr. WONG Ka Wai Gary, MIT
Project Title (<i>Ref No.</i>)	Social-Based Routing in Delay Tolerant MANETs with Realistic Social Characteristics (<i>ECR-8</i>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> Wong, G. K. W., Social context computing in the application of wireless networking, <i>Encyclopedia of Computer Science and Technology New York: Taylor & Francis Group (2015)</i> Wong, G. K. W., Social profile based opportunistic routing in mobile social networks, <i>Wireless Communications and Mobile Computing (WCMC) Journal (under preparation)</i> <p>Conference</p> <ol style="list-style-type: none"> IEEE Proceedings of International Conference on Computing, Networking and Communications Title: Performance evaluation of social relation opportunistic routing in dynamic social networks. <p>External Grant</p> <ol style="list-style-type: none"> GRF The Impact of Coding Education in Hong Kong Primary Schools: A Longitudinal Study (Date of application: Nov 2015) ECR Energy-Efficient Computation Offloading Mechanisms in Mobile Cloud Computing (Date of application: Nov 2013)
Project Leader	Dr. YUEN Man Wai, MIT
Project Title (<i>Ref No.</i>)	Blowup phenomena for the Compressible Euler Equations (<i>ECR-9</i>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> M.W. Yuen*, Blowup for C^2 Solutions of the N-dimensional Euler-Poisson Equations in Newtonian Cosmology, <i>Journal of Mathematical Analysis and Applications</i>, 415, 972-978. (2014) S. Wong, M.W. Yuen*, Blowup Phenomena for the Compressible Euler and Euler-Poisson Equations with Initial Functional Conditions, <i>The Scientific World Journal</i>, Retrieved from http://dx.doi.org/10.1155/2014/580871, online publication, 1-5. (2014) S. Wong, M.W. Yuen*, Blow-up Phenomena for Compressible Euler

	<p>Equations with Non-vacuum Initial Data. <i>Zeitschrift für angewandte Mathematik und Physik</i>, 66, 2941-2955. (2015)</p> <p>4. W. H. Chan, S. Wong, M.W. Yuen*, Blowup of Regular Solutions for the Relativistic Euler-Poisson Equations. <i>Journal of Mathematical Analysis and Applications</i>, Article in Press. (2016)</p> <p>External Grant</p> <p>1. ECR Blowup of the Compressible Euler Equations (Date of application: Nov 2014)</p>
Project Leader	Dr. DENG Wenjing, SES
Project Title (<i>RefNo.</i>)	Human Toxicity Potential of Municipal Solid Waste Management Systems in Hong Kong – Landfilling (<i>ECR-10</i>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> 1. Zhao Y, Deng WJ*, Environmental impacts of different food waste resource technologies and the effects of energy mix. <i>Resources, Conservation and Recycling</i>, 92, 214-221(2014) 2. Deng Wenjing*, Li Na, Zheng Hailong, Lin Huiying, Occurrence and risk assessment of antibiotics in river water in Hong Kong. <i>Ecotoxicology and Environmental Safety</i>, 125, 121- 127. (2015) 3. Deng Wenjing*, Chai Yemao, Lin Huiying, So WWM, Ho KWK, Tsui AKY, Wong RKS, Distribution of bacteria in inhalable particles and its implications for health risks in kindergarten children in Hong Kong. <i>Atmospheric Environment</i>, DOI: 10.1016/j.atmosenv.2016.01.017. (2016) 4. Deng Wenjing*, Yan Zhao, Hai-Long Zheng, Integration of (LCA) and (LCC) Analysis of Food Waste Management Options in Hong Kong from the Perspective of Global Warming. (2016) 5. Deng Wenjing*, C.S. So, John P. Giesy, Y.M. Chai. Material Flow Analysis of End-of-life (EOL) Cell Phone Management in Households of Hong Kong. (2016) 6. Deng Wenjing*, Zhao Yan, Life Cycle Cost (LCC) Analysis of Food Waste Management Options in the Perspective of Global Warming in Life Cycle Cost (LCC) Analysis of Food Waste Management Options in the Perspective of Global Warming in Hong Kong. <i>Environmental Management</i>. (under review) <p>Conference</p> <ol style="list-style-type: none"> 1. Biological Waste as Resource – with a Focus on Food Waste, Hong Kong Institute of Education (1-3 Dec 2014) Title: Life Cycle Assessment of Food Waste Management Options in

	<p>Hong Kong</p> <p>External Grant</p> <ol style="list-style-type: none"> Made a formal grant application to the UGC GRF scheme in the UGC grant call (Date of application: Nov 2013)
Project Leader	Dr. FOK Lincoln, SES
Project Title (<i>Ref No.</i>)	Plastic packaging environmental index (PPEI) for food products in Hong Kong: Index development and environmental education (<u>ECR-11</u>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> Cheung PK and Lincoln Fok*, Evidence of microbeads from personal care product contaminating the sea. Marine Pollution Bulletin. 109(2016): 582-5 (<u>2016</u>) Feng W, Fok. L*, Cheng, N. Y. & Yeung Y. Y., Plastic packaging, waste management and environmental education in a city with a consumption lifestyle (<u>under preparation</u>) <p>Conference</p> <ol style="list-style-type: none"> H-City: International conference on geographies of health and living in cities Title: Disposable culture and plastic pollution issue in Hong Kong Hong Kong Geography Day 2016 Title: Far side of the moon - Mismatched solid waste <p>External Grant</p> <ol style="list-style-type: none"> GRF Public perception on geosystem services and their valuation in Chinese geoparks (Date of Application: 2015/16)
Project Leader	Dr. CHOW Cheuk Fai Stephen, SES
Project Title (<i>Ref No.</i>)	Molecular Engineering of Rhenium(I) based Bimetallic Complexes as for the Development of Dual Color and Luminescent Molecular Probes (<u>ECR-12</u>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> Chow, C. F.*, Gong, F. W., Gong, C. B., Chemodosimetric Analysis in Food-Safety Monitoring: Design, Synthesis, and Application of Bimetallic Re(I)-Pt(II) Complex for Detection of Dimethyl Sulfide in Foods. (COVER PAGE), Analyst, 139, 4532 – 4537. (<u>2014</u>) Cheuk-Fai Chow*, Dong Sun, Yu-Jing Lu, Qian Tang*, Cheng-Bin Gong*, Wing-Leung Wong, Rational Design of Bimetallic based Indicator-Displacement Assay to Control the Selectivity and Sensitivity in Dimethyl Sulfide Detection (<u>under review</u>) Chow, C.F., Ho, K.Y. F., Gong, C.B. Synthesis of a New Bimetallic

	<p>Re(I)-NCS-Pt(II) Complex as Chemodosimetric Ensemble for the Selective Detection of Mercapto-containing Pesticides. <i>Analytical Chemistry</i>, 87, 6112-6118. <u>(2015)</u></p> <p>4. Cheuk-Fai Chow, Pui-Yu Ho, Dong Sun, Yu-Jing Lu, Wing-Leung Wong, Qian Tang, Cheng-Bin Gong, 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. <u>(2017)</u></p> <p>Conference</p> <p>1. 10th ISMSC-2015, The International Symposium on Macrocyclic and Supramolecular Chemistry Title: Indicator/Catalyst Displacement Assay (ICDA)</p> <p>External Grant</p> <p>1. GRF Bimetallic donor-acceptor ensembles for detection, signal amplification and degradation of toxic pollutants (Date of Application: 2014)</p>
Project Leader	Dr. LI Wai Chin, SES
Project Title (<i>Ref No.</i>)	Effects of Radial Oxygen Loss and Water Regimes on Accumulation, Tolerance and Speciation of Cadmium by Rice (<i>ECR-13</i>)
Output:	<p>Journal /book</p> <p>1. Huang L,, Li WC*, Ye ZH*, Effect of Root Morphology and Anatomy on Cd Uptake by Rice (<i>Oryza sativa</i> L.) <u>(under preparation)</u></p> <p>2. Xiao AW, Ouyang Y, Li WC*, YeZH*, Effect of organic manure on Cd and As accumulation in brown rice and grain yield in Cd-As-Contaminated paddy fields. <u>(under review)</u></p> <p>3. Huang L, Li WC*, Ye ZH*, Effects of Water Regimes and Cultivars on Cadmium Accumulation in Rice (<i>Oryza sativa</i> L.) <u>(under preparation)</u></p> <p>External Grant</p> <p>1. ECR Exploring the rhizosphere of rice in relation to uptake and accumulation of arsenic of arsenic and cadmium in contaminated paddy soils (Date of application: Nov 2015)</p>
Project Leader	Dr. HO Wing Kei, SES
Project Title (<i>Ref No.</i>)	Novel metal-free heterojunction visible-light driven photocatalyst for air purification and bacterial inactivation (<i>ECR-14</i>)
Output:	<p>Journal /book</p> <p>1. Huang, J. H.; Ho, W.K. and Wang, X. C., Metal-free disinfection</p>

	<p>effects induced by graphitic carbon nitride polymers under visible light illumination <u>(2014)</u></p> <ol style="list-style-type: none"> 2. Liu, M. D.; Xu, J; Cheng B.; Ho. W. K.*; Yu, J. G.*, Synthesis and adsorption performance of Mg(OH)₂ hexagonal nanosheet-graphene oxide composites <u>(2015)</u> 3. Wang, K.; Li, Q.; Liu, B. S.; Cheng, B.; Ho. W.K.*· Yu, J. G. *, Sulfur-doped g-C₃N₄ with enhanced photocatalytic CO₂-reduction performance <u>(2015)</u> 4. Dong, G. H. ; Ho, W. K.*; Li, Y. H.; Zhang, L. Z., Facile synthesis of porous graphene-like carbon nitride (C₅N₉H₃) with excellent photocatalytic activity for NO removal <u>(2015)</u> <p>External Grant</p> <ol style="list-style-type: none"> 1. Made a formal grant application to the UGC GRF scheme in the UGC grant call (2015/16)
Project Leader	Dr. TSANG Yiu Fai, SES
Project Title (<i>Ref No.</i>)	Utilization of Waste Sludge in Environment-friendly Construction Materials (<i>ECR-15</i>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> 1. Tsang, Y.F.*, Environmental protection and pollution management in China. In S. Sindakis, & C. Walter (Eds.), Entrepreneurial rise in South-East Asia: the quadruple helix influence on technological innovation (pp.309-336). New York, USA: Palgrave Macmillan <u>(2015)</u> 2. W.N. Cheng, Y.F. Tsang*, C.F. Yu, Y.K. Wong, K.C. HO, Utilizing Sludge and Coal Combustion Residuals in Eco-construction Materials Production <u>(2016)</u> 3. Tsang, Y.F.* (Editor), Edited Book – Photobioreactors: Advancements, Applications and Research <u>(2017)</u> <p>Conference</p> <ol style="list-style-type: none"> 1. The 21st International Conference of Hong Kong Society for Transportation Studies, Hong Kong Title: Eco-friendly Concrete Pavement Blocks using Waste Sludge 2. The 12th IWA Leading Edge Conference on Water and Wastewater Technologies, Hong Kong Title: Production of Eco-concrete Blocks from Sludge and Coal Combustion Residuals 3. International Conference on Biological Waste as Resource, with a Focus on Food Waste, Hong Kong Title: Utilizing Sludge and Coal Combustion Residuals in Eco-brick Production

Project Leader	Dr. LEUNG Chi Fai, SES
Project Title (<i>Ref No.</i>)	Transition-metal water oxidation catalysts for chemical energy conversion (<i>ECR-16</i>)
Output:	<p>Journal/ book</p> <ol style="list-style-type: none"> Chi-Fai Leung, Junli Shi, Ying Yang, Shun-Cheung Cheng, Chi-Chiu Ko, Visible Light-driven Hydrogen Generation with Copper(II) Quaterpyridyl Complex, Dalton Transaction (<i>under preparation</i>) Chi-Fai Leung, Ying Yang, Wenjaun Ma, Shun-Cheung Cheng, Chi-Chiu Ko. Visible Light-driven Solar Fuels Generation with Cobalt(II) Tripodal Iminopyridine Complexes, International Journal of Hydrogen Energy (<i>under preparation</i>) Zhengguo Guo, Ying Yang, Chi-Fai Leung,*Shun-Cheung Cheng, Chi-Chiu Ko, Claudio Cometto, Elodie Anxolabéhère-Mallart, Tai-Chu Lau,* and Marc Robert*, Efficient Photocatalytic Carbon Dioxide and Water Reduction by a Copper(II) Quaterpyridine Complex/Angewandte Chemie Intl. Ed. (<i>under preparation</i>) Lin-Li Hu, Chang Shen, Wing-Kin Chu, Jing Xiang, *Fei Yu, Ge Xiang, Yan Lie, Chun-Leung Kwok, Chi-Fai Leung,* Chi-Chiu Ko*, Synthesis, Structures and Photophysical Properties of Cu(I) Phosphine Complexes with Various Diimine Ligands/European Journal of Inorganic Chemistry (<i>under review</i>) <p>Conference</p> <ol style="list-style-type: none"> Conference: International Conference on Coordination Chemistry Title: Visible Light-driven Solar Fuels Generation with Cobalt(II) Tripodal Iminopyridine Complexes <p>External Grant</p> <ol style="list-style-type: none"> ECR Acid-assisted strategy for efficient carbon dioxide reduction on molecular transition-metal catalysts (Approved in 2014)
Project Leader	Dr. CHOW Sin Yin Alice, SSC
Project Title (<i>Ref No.</i>)	Spatial and Network Analyses of Higher Education Activities among Global Cities (<i>ECR-17</i>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> Chow, Alice S.Y. *, & Loo, Becky. P.Y., Higher education in world cities: A spatial study of global leadership and connectivity. In: K.H.Mok (ed.) Managing International Connectivity, Diversity of Learning and Changing Labour Market. Springer, pp. 91-104 (DOI: http://dx.doi.org/10.1007/978-981-10-1736-0_5) (<i>2017</i>) Chow, Alice S. Y.*& Loo, Becky. P. Y. Applying a world-city network

	<p>approach to globalizing higher education: Conceptualization, data collection and the lists of world cities. Higher Education Policy, 28(1), 107-126. <u>(2015)</u></p> <p>Conference</p> <ol style="list-style-type: none"> 1. The 18th Hong Kong Society for Transportation Studies International Conference: Travel Behaviour and Society, 14-16 December, Hong Kong Title: Connectivity of higher education within the global city network: Does transport network play a role? 2. The Royal Geographical Society (with IBG) Annual International Conference 2014 Title: An investigation of Globalising Education Index and global city performance <p>External Grant</p> <ol style="list-style-type: none"> 1. ECS Mobility and connectivity of higher education among global cities: An exploration on influence of transport and telecommunication infrastructure (Date of application: Sep 2013)
--	--

Research Equipment Grants (REG)	
Project Leader	Dr. CHENG Nga Yee Irene, SES
Project Title (<i>Ref No.</i>)	TVOC meter, dust-trak, Q-trak, formaldehyde monitor, radon gas monitor and ozone detector (<i>REG-2</i>)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> 1. Guohui Dong, Wingkei Ho*, Lizhi Zhang, Photocatalytic NO removal on BiOI surface: The change from nonselective oxidation to selective oxidation", <i>Applied Catalysis 8: Environmental</i> 168 (2015) 490-496 <u>(2015)</u> 2. Guohui Dong, Wingkei Ho*, Yuhan Li, Lizhi Zhang, Facile synthesis of porous graphene-like carbon nitride (C₆N₉H₃) with excellent photocatalytic activity for NO removal , <i>Applied Catalysis B: Environmental</i> 174- 175 (2015) 477-485 <u>(2015)</u> 3. Wingkei Ho*, Zizhong Zhang, Wei Lin, Shuping Huang, Xianwen Zhang, Xuxu Wang, and Yu Huang, Copolymerization with 2,4,6-Triaminopyrimidine for the Rolling-up the Layer Structure, Tunable Electronic Properties, and Photocatalysis of g-C₃N₄, <i>ACS Applied. Material. Interfaces</i>, 2015, 7, 5497- 5505 <u>(2015)</u> 4. Wingkei Ho*, Zizhong Zhang, Mukun Xu, Xianwen Zhang, Xuxu Wang, Yu Huang, Enhanced visible-light-driven photocatalytic

	<p>removal of NO: Effect on layer distortion on g-C₃N₄ by H₂ heating, <i>Applied Catalysis 8: Environmental</i> 179 (2015) 106-112 <u>(2015)</u></p> <p>5. The study on the effect of outdoor air quality on indoor air quality (IAQ) of kindergartens and primary schools classrooms in Hong Kong <u>(under preparation)</u></p> <p>6. Wenjing Deng*, Yemao Chai, Huiying Ling, Winnie, W.M. So, Keith W.K. Ho, Richard K.S. Wong and Irene NY Cheng, Airborne Bacterial Communities in Indoor Dust in Kindergartens and Primary Schools of Hong Kong <u>(under review)</u></p> <p>7. PC Magazine STEM Issue 1208(2016) pages 34-35. 環保與科研活動 <u>(2016)</u></p> <p>8. Wenjing Deng*, Yemao Chai, Huiying Ling, Winnie, W.M. So, KW.K. Ho, A.S.K. Tsui, and R.K.S. Wong, Atmospheric Environment 128 (2016) pages 268-275. Distribution of bacteria in inhalable particles and its implications for health risks for kindergarten children in Hong Kong. <u>(2016)</u></p>
Project Leader	Dr. DENG Wenjing, SES
Project Title (Ref No.)	Generator Portable Zero-Air Generator. Personal Ozone Monitor, and microAeth black carbon monitor (REG-3)
Output:	<p>Journal /book</p> <ol style="list-style-type: none"> Deng Wenjing*, Chai Yemao, Lin Huiying, So, WWM, Ho KWK, Tsui AKY, Wong RKS, Distribution of bacteria in inhalable particles and its implications for health risks in kindergarten children in Hong Kong. Atmospheric Environment, DOI: 10.1016/j.atmosenv.2016.01.017. <u>(2016)</u> Zheng, Hai-Long, Deng, Wen-Jing*, Cheng, Yan, Guo, Wei, 2016. Characteristics of PM_{2.5}, CO₂ and Particle-Number Concentration in Mass Transit Railway Carriages in Hong Kong. Environmental Geochemistry and Health. DOI:10.1007/s10653-016-9844-y <u>(2016)</u> Deng, Wen-Jing*, Zheng, Hai-Long, Tsui, KY Anita, Xun-Wen Chen, Measurement and health risk assessment of PM_{2.5}, carbonyls, black carbon and particulate bounded flame retardants in indoor and outdoor air of kindergartens in Hong Kong Environment International 96: 65-74. <u>(2016)</u> <p>Conference</p> <ol style="list-style-type: none"> The 8th International Conference on Marine Pollution and Econtoxicology Title: Occurrence of Algal Toxins in Marine Water of Hong Kong <p>External Grant</p>

	<ol style="list-style-type: none"><li data-bbox="491 143 1377 315">1. GRF Health risk assessment of kindergarten children's non-dietary exposure to emerging flame retardants via school and household indoor PM2.5 and dust intake, and the implications from children hair in Hong Kong<li data-bbox="491 338 1377 510">2. ECR Life Cycle Assessment (LCA) and Life Cycle Cost (LCC) Analysis of Food Waste Management Options in the Perspective of Global Warming in Hong Kong
--	---