

Lai, Persia [BSE]

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Sent: Thursday, 4 June 2020 12:11 PM
To: Lai, Persia [BSE]
Subject: FW: FCE Dean's Awards 2019

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Sent: Tuesday, 25 June 2019 5:08 PM
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Subject: FCE Dean's Awards 2019

To : All FCE Academic Staff
From : Faculty Dean (CE)
c.c. : Faculty Secretary
SEO/EO of FCE Departments

Dear FCE colleagues,

We are happy to announce the results of the FCE Dean's Awards 2019, for the categories of *Outstanding Achievement in Highly-cited Papers* and *Research Funding* as below.

a) **Dean's Award for Highly-cited Papers**

The FRC Working Group at its 79th FRCWG meeting on 6 June 2019 recommended granting of the *Dean's Awards for Highly-cited Papers* to the following staff members:

Awardee (Dept)	Title	Authors	Journal
Prof. LU Lin (BSE)	Review on Life Cycle Assessment of Energy Payback and Greenhouse Gas Emission of Solar Photovoltaic Systems	PENG, JQ^ <u>LU, L*</u> YANG, HX	Renewable and Sustainable Energy Reviews Vol. 19, Pages 255-274 (Mar 2013)
Prof. CHAU K.W. (CEE)	Prediction of Rainfall Time Series Using Modular Artificial Neural Networks Coupled with Data preprocessing Techniques	WU, CL^ <u>CHAU, KW*</u> FAN, C	Journal of Hydrology Vol. 389, Pages 146-167 (Jul 2010)

Prof. LEE S.C. (CEE)	Rose-like Monodisperse Bismuth Subcarbonate Hierarchical Hollow Microspheres: One-pot Template-free Fabrication and Excellent Visible Light Photocatalytic Activity and Photochemical Stability for NO Removal in Indoor Air	DONG, F [^] <u>LEE, SC*</u> WU, ZB HUANG, Y FU, M HO, WK ZOU, SC WANG, B	Journal of Hazardous Materials Vol. 195, Pages 346-354 (Nov 2011)
Prof. LI X.D. (CEE)	Trace Metal Contamination in Urban Soils of China	LUO, XS [^] YU, S# ZHU, YG# <u>LI, XD*</u>	Science of the Total Environment Vol. 421, Pages 17-30 (Apr 2012)
Prof. TENG J.G. (CEE)	Strengthening of Steel Structures with Fiber- Reinforced Polymer Composites	<u>TENG, JG*</u> YU, T FERNANDO, D	Journal of Constructional Steel Research Vol. 78, Pages 131-143 (Nov 2012)
Prof. WANG Tao (CEE)	Summertime PM _{2.5} Ionic Species in Four Major Cities of China: Nitrate Formation in an Ammonia-deficient Atmosphere	PATHAK, RK [^] WU, WS [^] <u>WANG, T*</u>	Atmospheric Chemistry and Physics Vol. 9, Issue 5, Pages 1711-1722 (2009)

* Corresponding Author [^] PhD student/Postdoctoral Fellow of the
Awardee # Non-PolyU author

b) Dean's Award for Outstanding Achievement in Research Funding

The FRC Working Group at the same meeting agreed to support the following 12 staff members to receive the *Dean's Award for Outstanding Achievement in Research Funding* because of their success in securing external competitive research funding that meets the requirements stipulated in the criteria for the Award (by securing at least ONE RGC GRF/ECS grant and achieving a total score of not less than 3 from the funding schemes recognized for the Award in the past 3 calendar years, or a total score of not less than 4 in the past 5 calendar years).

Awardee (Dept)	Allocation Date	Project Title (Funding Scheme)	Score	Total Score
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Prof. LI Heng (BRE)	26 Jul 2016	Smart Construction Platform Based on Cloud BIM and Image Processing <i>(Innovation Technology Fund - LSCM)</i>	1	3.4
	28 Apr 2017	Facilitating the Diffusion of Building Information Modeling (BIM) in the Hong Kong Construction Industry: A Network Perspective <i>(PICO – Public Policy Funding)</i>	0.7	
	26 Jan 2018	Construction Waste Sorting and Recycling Robot <i>(Environment and Conservation Fund)</i>	0.7	
	1 Jul 2018	Proactive Monitoring of Work-related MSD Risk Factors and Fall Risks of Construction Workers Using Wearable Insoles <i>(RGC General Research Fund)</i>	1	
Prof. NI Meng (BRE)	8 Mar 2016	A New Method for Simultaneous Plastic Waste Treatment and Electricity Generation Using High Performance Direct Waste Solid Oxide Fuel Cells (DW-SOFC) <i>(Environment and Conservation Fund)</i>	0.7	3.4
	1 Jul 2017	Layered Perovskite Materials for Protonic Ceramic Fuel Cell Cathode: Experimental and Computational Studies <i>(RGC General Research Fund)</i>	1	
	1 Jul 2018	New Perovskite Anodes for Solid Oxide Fuel Cells Running on Hydrogen/Carbon Monoxide Mixture <i>(RGC General Research Fund)</i>	1	
	18 Sep 2018	Development of High Performance Flexible Zinc-Air Hybrid Batteries For Wearable Electronic Devices <i>(Innovation Technology Fund – ITSP – Tier 3)</i>	0.7	
Prof. DENG Shiming (BSE)	1 Jul 2016	A Novel Direct Expansion Based Standalone Enhanced Dehumidification Air Conditioning System for Improved Year-Round Indoor Humidity Control in Hot and Humid Climates <i>(RGC General Research Fund)</i>	1	3
	1 Jul 2017	Inherent Operational Characteristics of a Direct Expansion Based Air Conditioner Having a Two-Sectioned Cooling Coil for Enhanced Output Cooling and Dehumidification Capacity and Improved Indoor Air Velocity Distribution <i>(RGC General Research Fund)</i>	1	
	1 Jul 2018	Towards Even Frosting of the Outdoor Coil Along the Airflow Direction in a Space Heating Air Source Heat Pump for Improved Energy Efficiency and Occupant Thermal Comfort <i>(RGC General Research Fund)</i>	1	

Prof. LU Lin (BSE)	19 Dec 2014	Development of Novel High Dispersed Transparent Heat Insulation Paints for Glass <i>(Innovation Technology Fund – UICP - MGJR)</i>	0.7	4.4
	1 Jul 2015	Investigating the Unsteady Film Pattern and Turbulence for Heat/Mass Transfer Performance of Falling Film Liquid Desiccant Air-Conditioning System <i>(RGC General Research Fund)</i>	1	
	1 Jul 2017	Enhancing the Heat and Mass Transfer of Plate Liquid Desiccant Dehumidifier with Bilayer Superhydrophilic Coating Considering the Solid-Liquid Interaction Effect <i>(RGC General Research Fund)</i>	1	
	13 Nov 2017	Development of a Hollow Fiber Membrane-based Seawater Desalination System Driven by a Hybrid of Solar Energy and Heat Pump <i>(Innovation Technology Fund – ITSP - TCFS)</i>	0.7	
	15 Nov 2018	Active Heat Transfer Enhancement Method of Paraffin Thermal Storage by Foam Structure Together with Vibration Particles <i>(NSFC/RGC Joint Research Scheme)</i>	1	
Prof. CHAN Siu Lai (CEE)	1 Jul 2014	Second-order and Advanced Analysis of Arches and Curved Structures <i>(RGC General Research Fund)</i>	1	4
	1 Jul 2015	Second-Order Analysis of Flexible Steel Cable Nets Supporting Debris <i>(RGC General Research Fund)</i>	1	
	1 Jul 2017	Second-Order Analysis of Shallow Dome Structures Made of Tapering Members <i>(RGC General Research Fund)</i>	1	
	1 Jul 2018	Joint-based Second Order Direct Analysis for Domed Structures Allowing for Finite Joint Stiffness <i>(RGC General Research Fund)</i>	1	
Prof. CHUNG Kwok Fai (CEE)	1 Jul 2016	Experimental Investigation Into Ductility of High Strength S690 Steel Plates and Welded Connections Under Cyclic Loadings <i>(RGC General Research Fund)</i>	1	3
	1 Jul 2017	Qualifying Welded Connections and Weldments of High Strength S690-QT Steel Members in Seismic Resistant Design <i>(RGC General Research Fund)</i>	1	
	1 Jul 2018	Adequacy in Resistance and Ductility of High Strength S690 Steel Welded Sections with Multi-pass Welding under Monotonic and Cyclic Deformations <i>(RGC General Research Fund)</i>	1	
Prof. DAI Jianguo (CEE)	17 Aug 2016	Fundamental Research on Materials and Structural Design of Green Low-Carbon Geopolymer Concrete <i>(NSFC – Key Program – sub-project)</i>	0.7	3.1

	1 Jul 2017	Prefabricated Ultra-High-Performance Concrete Sandwich Walls with Tubular FRP Connectors <i>(RGC General Research Fund)</i>	1	
	12 Dec 2017	Research and Development on Geopolymer Cement-based 3D Printing Technology for Modern Building Industry <i>(Innovation Technology Fund – ITSP – Tier 3)</i>	0.7	
	27 Feb 2018	Development of an Energy-saving Coating System for Sustainable Building Envelope <i>(Environment and Conservation Fund)</i>	0.7	
Prof. NI Yiqing (CEE)	1 Jul 2016	SHM-Oriented Blind Source Separation Using a Bayesian Approach <i>(RGC General Research Fund)</i>	1	3
	1 Jul 2017	Quantification of the Uncertainty in Forecasts Using Structural Health Monitoring Data: A Bayesian Approach <i>(RGC General Research Fund)</i>	1	
	1 Jul 2018	Model-free, Response-only Structural Damage Detection by Variational Sparse Bayesian Learning <i>(RGC General Research Fund)</i>	1	
Prof. POON Chi Sun (CEE)	2 Mar 2017	Development of a Novel Way to Maximize the Use of Waste Glass in Precast Alkali Activated Cement Mortar/Concrete <i>(Environment and Conservation Fund)</i>	0.7	3.1
	1 Jul 2017	Effects of Degree of Accelerated Carbonation of Recycled Aggregates on the Macro- and Micro-Structural Properties of Recycled Aggregate Concrete <i>(RGC General Research Fund)</i>	1	
	24 Nov 2017	Cementless Production of Lightweight Aggregates from Incineration Bottom Ash (IBA) and Concrete Slurry Waste (CSW) <i>(Innovation Technology Fund – ITSP – Tier 2)</i>	0.7	
	1 Nov 2018	Water Permeable Precast Plank by Recycled Materials <i>(Innovation Technology Fund – NAMI)</i>	0.7	
Prof. TENG Jinguang	5 Oct 2018	Sustainable Marine Infrastructure Enabled by the Innovative Use of Seawater Sea-Sand Concrete and Fibre-Reinforced Polymer Composites <i>(RGC Theme-based Research Scheme)</i>	6	6
Prof. YIN Jianhua (CEE)	1 Jul 2016	Development and Verification of a New Simplified Hypothesis B Method for Calculating Consolidation Settlement of Clayey Soils Exhibiting Creep <i>(RGC General Research Fund)</i>	1	3
	1 Jul 2017	Test Study of Sea-sand Seawater Concrete FRP Piles in Marine Soils under Cyclic and Static Loading <i>(RGC General Research Fund)</i>	1	
	1 Jul 2018	Physical Modelling and Analysis of Consolidation Settlements of Multi-layered Clayey Soils Exhibiting Creep without or with Vertical Drains Subjected to a Complicated Loading Process	1	

		(RGC General Research Fund)		
Dr ZHU Songye (CEE)	1 Jul 2014	A Novel Passive Negative-stiffness Damper: Application to Stay Cables (RGC General Research Fund)	1	4.4
	27 Jan 2015	Research & Development of A Novel Type of Electromagnetic Negative-Stiffness Damper (Innovation Technology Fund – ITSP – Tier 3)	0.7	
	17 Feb 2016	Negative-stiffness Dampers for Vibration Suppression in High-speed Trains (Innovation and Technology Commission – CNERC – sub-project)	0.7	
	17 Nov 2017	Study on the Mechanism and Application of Energy Transfer in the Nonlinear Self-excited System for 10 MW Level Wind Turbine System (NSFC/RGC Joint Research Scheme)	1	
	1 Jul 2018	Self-centering Seismic Base Isolators with SMA U- shaped Dampers (RGC General Research Fund)	1	

The recommendations were endorsed in consultation with the Faculty Executive Committee at its 165th meeting held on 21 June 2019. Each of the above awardee will receive a cash prize of HK\$20,000. The award certificates will be presented to awardees at the Faculty Congregation and Prize Presentation Ceremony 2019 in November.

Finally, we would like to thank all the awardees for their outstanding achievements, which have contributed to the research excellence of the Faculty.

Thank you and best regards,

You-Lin Xu (Prof.)
Dean
Faculty of Construction and Environment