Contactless reversible 4D-printing for 3D-to-3D shape morphing 

Chua Chee Kai

"We developed a contactless shape setting mechanism to empower reversible 4D-printing that is programmed by asymmetric swelling with heated ethanol and recover by dry heating. The capability of 3D-to-3D shape morphing and reversibility of our 4D-printing process promise great potential for different applications such as biomimetics and soft robotics."

--- Chua Chee Kai

Digital Asymmetries in Transnational Communication: Expectation, Autonomy and Gender Positioning in the Household 

Yang Wang and Sun Sun Lim

"Despite ICTs having positive benefits for maintaining long-distance intimacies, digital asymmetries characterized by gaps in routines, emotional experiences and outcomes of ICT use can emerge between transnational family members. This study provides insights into the 'expectation asymmetry' and 'autonomy asymmetry' that Chinese 'study mothers' in Singapore experience during transnational communication."

--- Yang Wang

A Compact High-Resolution Capacitive Sensor for Defects Detection on PCBAs 

Tie Qiu and Shao Ying Huang

"Using free ring data, this work reconstructs eight centuries of river discharge history for 16 Asian countries. The reconstructions show that megadroughts have occurred simultaneously in multiple adjacent river basins and reveal how rivers are influenced by the oceans. These results can guide inter-basin water management decisions."

--- Tie Qiu and Shao Ying Huang

Antioxidant and Cytoprotective Effect of Quinoa (Chenopodium quinoa Willd.) with Pressurized Hot Water Extraction (PHWE) 

Md Rashed Bhuyan, Xiong Ji, Song Hao and Zhao Rong

A biodegradable artificial synapse implemented by foundry-compatible materials 

Chen Huei Leo, Xiong Ji, Song Hao and Zhao Rong

Digital Asymmetries in Transnational Communication: Expectation, Autonomy and Gender Positioning in the Household 

Chua Chee Kai and Chen Huei Leo

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--- Chua Chee Kai

Diversity of children's independent mobility in Dhaka urbanisation 

Chen Huei Leo, Md Rashed Bhuyan and Ye Zhang

A biocompatible 3D printed skin model for studies on tissue engineering 

Chen Huei Leo, Md Rashed Bhuyan and Ye Zhang

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