Scientific Program

(July 29, 2022)

Time Zone (London)	BST: 02: 00 PM | CDT: 08:00 AM (EDT: 09:00 AM | London: 02:00 PM | KST: 10:00 PM)
02:00-02:10	**Introductory Remarks**
02:10-02:40	Multicomponent High-Entropy Cantor alloys
	Brian Cantor, University of Oxford, UK
02:40-03:10	Plastic deformation of bulk metal glasses and accompanying structural changes
	Dmitri V. Louzguine-Luzgin, Tohoku University, Japan
03:10-03:40	Atomic-scale buidling of low dimensional materials via interfacial van der Waals Engineering
	Shao-Chun Li, Nanjing University, China
03:40-04:10	Unique external memory basis in protein and human mass-societies: T-patterns, T-strings, and T-societies
	Magnus S Magnusson, University of Iceland, Iceland
04:10-04:40	Barocaloric materials for zero-carbon heating and cooling
	Xavier Moya, University of Cambridge, UK
04:40-05:10	Emerging semiconductors reliability challenges in advanced process nodes– An architectural viewpoint
	Freddy Gabbay, Ruppin Academic Center, Emek Hefer, Israel
05:10-05:15	**Break Time**
05:15-05:45	Recent advances in nanostructured anodic TiO_2 for biomedical applications
	Anca Mazare,Friedrich-Alexander University of Erlangen Nürnberg, Germany
05:45-06:15	Improving the reliability design of mechanical systems such as refrigerator
	Seongwoo Woo, Ethiopian Technical University, Ethiopia
06:15-06:45	A novel approach for producing AZ31B Mg alloy wire with a promissing combination of strength and ductility using CoreFlow
	Dikai Guan, The University of Sheffield, UK
06:45-07:15	THz probing domain walls in Pb-free ferroelectric ceramics
	Haixue Yan, Queen Mary University of London, UK
07:15-07:45	Organic Electrochemical Transistors with stable performance under stretching
	Wei Huang, University of Electronic Science and Technology of China, China
07:45-08:15	Development of lead-free ceramics for dielectric energy storage capacitors
	Zhilun Lu, Edinburgh Napier University, UK
08:15-08:45	A microwave-enhanced method for recovery of critical metals from spent LIBs
	Ario Fahimi, University of Brescia, Italy
08:45-08:50	**Break Time**
08:50-09:20	Global warming due to biomaterials? Why we have been so slow to act.
	Thomas Webster, Interstellar Therapeutics, Boston, USA
09:20-09:50	Large-scale ab initio computation of advanced biomaterials: the case of Spike protein in SARS-CoV-2
	Wai-Yim Ching, University of Missouri, USA
09:50-10:20	Metal halide Perovskites: Exceptional semiconductors for optoelectronic applications
	Annalisa Bruno, Nanyang technological University, Singapore
10:20-10:50	A new liquid-metal technique to 1D nanorolls and 2D nano plates
	Qingsong Huang, Sichuan University, China
10:50-11:20	Neuromorphic devices based on emerging 2D semiconductors
	Xiaogan Liang, University of Michigan, USA
11:20-11:50	Design and operation of low energy consumption passive human comfort solutions
	Abdeen Mustafa Omer, Energy Research Institute (ERI), London, UK
11:50-12:00	**ENDING STATEMENT**