

Program

Venue arrangement

Data	Time	Classification	Topic
December 10 (Saturday)	08:40-08:50	Main venue	Opening ceremony
	08:50-09:40		Plenary lectures
	09:40-09:45		Photo time (on line)
	09:45-11:25		Plenary lectures
	14:00-17:50	Session-1	New material and structural design of flexible electronics
		Session-2	Novel devices and unconventional fabrication of flexible electronics
		Session-3	Emerging applications and performances of flexible electronics
	17:30-19:00	Poster	
December 11 (Sunday)	08:30-11:50	Session-1	New material and structural design of flexible electronics
		Session-2	Novel devices and unconventional fabrication of flexible electronics
		Session-3	Emerging applications and performances of flexible electronics
	13:30-15:10	Main venue	Plenary lectures
	15:10-16:25		Editors' section
	16:25-16:45		Closing ceremony

Main venue

Zoom Conference No.: 825 7243 5285 Password: 653295

Saturday, December 10, 2022 (Beijing time)		
Morning	08:40-08:50	Opening ceremony, chair: Xue Feng
	Plenary lecture, chair: Yonggang Huang	
	08:50-09:40	John A. Rogers , <i>Northwestern University</i>
		Flexible electronics as bioelectronic medicines
	09:40-09:45	Photo time (online)
	Plenary lecture, chair: Xue Feng	
	09:45-10:35	Zhenan Bao , <i>Stanford University</i>
		Skin-inspired organic electronics
10:35-11:25	Wei Yang , <i>Zhejiang University</i>	
	Materials and manufacturing for soft electro-mechanical devices	
Sunday, December 11, 2022 (Beijing time)		
Afternoon	Plenary lectures, chair: Xiaodong Chen	
	13:30-14:20	Takao Someya , <i>University of Tokyo</i>
		Electronic skins for robotics and healthcare applications
	14:20-15:10	Yongfang Li , <i>Institute of Chemistry CAS</i>
		Recent research progress of photovoltaic materials for polymer solar cells
	Editors' section, chair: Yihui Zhang	
	15:10-15:25	Xiaodong Chen , <i>Nanyang Technological University</i>
		Publishing in ACS Nano and Beyond
	15:25-15:40	Xin Li , <i>Nature Materials</i>
		Pushing for flexibility – inside Nature Materials
	15:40-15:55	Lu Shi , <i>Wiley</i>
		Publishing advanced Materials Science
	15:55-16:10	Jing Feng , <i>Science China Information Sciences</i>
Development of Science China Information Sciences		
16:10-16:25	Jie Yang , <i>Science China Technological Sciences</i>	
	Publishing in Science China	
16:25-16:45	Closing ceremony, chair: Xue Feng	

Session-1

New material and structural design of flexible electronics

Zoom Conference No.: 825 7243 5285 Password: 653295

Saturday, December 10, 2022 (Beijing time)		
Afternoon	Keynote lectures, chair: Jianguyu Li	
	14:00-14:30 Runwei Li , <i>Ningbo Institute of Materials Technology & Engineering CAS</i> Flexible magnetic functional materials and magnetic sensors	
	Invited lectures, chair: Jianguyu Li	
	14:30-14:50 Youfan Hu , <i>Peking University</i> Carbon nanotube-based epidermal electronic systems	
	14:50-15:10 Chi Zhang , <i>Institute of Nanoenergy and Nanosystem CAS</i> Flexible triboelectric nanogenerators and self-powered microsystems	
	15:10-15:30 Xian Huang , <i>Tianjin University</i> Flexible bioelectronics and soft electromechanical systems based on permanent magnetic composites and structures	
	Keynote lectures, chair: Xian Huang	
	15:30-16:00 Jianguyu Li , <i>Southern University of Science and Technology</i> Freestanding oxide films for flexible electronics	
	16:00-16:30 Ni Zhao , <i>Chinese University of Hong Kong</i> New generation medical devices enabled by hybrid and nanostructured semiconductors	
	17:30-19:00 Poster	
	Sunday, December 11, 2022 (Beijing time)	
	Morning	Keynote lectures, chair: Cunjiang Yu
08:30-09:00 Chi Hwan Lee , <i>Purdue University</i> Clinical needs-driven engineering of flexible electronics for wearable healthcare		
09:00-09:30 Yong Zhu , <i>North Carolina State University</i> New development in silver nanowire based soft electronics: Material, structural design and manufacturing		
Invited lectures, chair: Cunjiang Yu		
09:30-09:50 Renee Zhao , <i>Stanford University</i> Multifunctional magnetic origami robots		

	09:50-10:10	Xiaoyue Ni , <i>Duke University</i>
		A dynamically reprogrammable surface with self-evolving shape morphing
	Keynote lectures, chair: Yong Zhu	
	10:10-10:40	Cunjiang Yu , <i>The Pennsylvania State University</i>
		Rubbery electronics: electronic devices and circuits entirely based on rubbers
	10:40-11:10	Daniel Preston , <i>Rice University</i>
		Textile-based wearable assistive robots with integrated fluidic control and energy harvesting
	Invited lectures, chair: Yong Zhu	
	11:10-11:30	Yiwei Liu , <i>Ningbo Institute of Materials Technology and Engineering, CAS</i>
		Flexible strain sensitive materials, devices and applications
	11:30-11:50	Ke Liu , <i>Peking University</i>
		Passive and active construction of curved surfaces

Session-2

Novel devices and unconventional fabrication of flexible electronics

Zoom Conference No.: 852 0641 1371 Password: 565551

Saturday, December 10, 2022 (Beijing time)		
Afternoon	Keynote lectures, chair: Zhongming Wei	
	14:00-14:30	Dae-Hyeong Kim , <i>Seoul National University</i>
		Intrinsically-soft conductors for conformal tissue-device interfacing
	14:30-15:00	Tae-Woo Lee , <i>Seoul National University</i>
		Stretchable and flexible artificial nerves for neuromorphic neuroprosthetics
	Invited lectures, chair: Zhongming Wei	
	15:00-15:20	Wei Lan , <i>Lanzhou University</i>
		Flexible bioelectronics for personalized healthcare
	15:20-15:40	Chong-an Di , <i>Institute of Chemistry CAS</i>
		Construction of multifunctional organic transistors for artificial perception applications
	Keynote lectures, chair: Wei Lan	
	15:40-16:10	Yanlin Song , <i>Institute of Chemistry, CAS</i>
		Green printing technology for manufacturing functional devices
	16:10-16:40	Benjamin C.K. Tee , <i>National University of Singapore</i>
		Approaches for scalable and self-healing hybrid electronic materials
Invited lectures, chair: Wei Lan		
16:40-17:00	Zhongming Wei , <i>Institute of Semiconductors, CAS</i>	
	Polarization-sensitive photodetector and image sensor based on 2D materials	
17:00-17:20	Yang Xu , <i>Zhejiang University</i>	
	Broadband graphene-silicon integrated field-effect coupled detectors	
17:30-19:00	Poster	
Sunday, December 11, 2022 (Beijing time)		
Morning	Keynote lectures, chair: Yongfeng Mei	
	08:30-09:00	Li Zhang , <i>Chinese University of Hong Kong</i>
Magnetic-field driven and powered flexible devices for biomedical applications		

	09:00-09:30	Zijian Zheng , <i>Hong Kong Polytechnic University</i>
		Fibrous conductive materials for wearable electronics
	Invited lectures, chair: Yongfeng Mei	
	09:30-09:50	Jing Yu , <i>Nanyang Technological University</i>
		Hydrogel materials for epidermal sweat sensors
	09:50-10:10	Wubin Bai , <i>University of North Carolina at Chapel Hill</i>
		3D morphable electronic systems via deterministic microfolding
	Keynote lectures, chair: Li Zhang	
	10:10-10:40	Lian Duan , <i>Tsinghua University</i>
		Wide color gamut OLEDs based on TADF sensitized fluorescence
	10:40-11:10	Yongfeng Mei , <i>Fudan University</i>
		Smart nanomembranes for reconfigurable electronics and smart dust
	Invited lectures, chair: Li Zhang	
	11:10-11:30	Zhiyuan Liu , <i>Shenzhen Institute of Advanced Technology, CAS</i>
		Stretchable soft-rigid interfaces for bio-electrical signal detection: current methods and challenges
11:30-11:50	Hangbo Zhao , <i>University of Southern California</i>	
	Compliant 3D frameworks instrumented with strain sensors for characterization of engineered muscle tissues	

Session-3

Emerging applications and performances of flexible electronics

Zoom Conference No.: 861 1490 2361 Password: 927093

Saturday, December 10, 2022 (Beijing time)		
Afternoon	Keynote lectures, chair: Mengdi Han	
	14:00-14:30	Xiaodong Chen , <i>Nanyang Technological University</i> Artificial sense technology
	14:30-15:00	Chwee Teck Lim , <i>National University of Singapore</i> Flexible and stretchable microfluidic sensors for healthcare and the metaverse
	Invited lectures, chair: Mengdi Han	
	15:00-15:20	Qinglei Guo , <i>Shandong University</i> Transferable inorganic semiconductor nanomembranes for flexible/transient sensors
	15:20-15:40	Li Wen , <i>Beihang University</i> Aerial-aquatic robots capable of crossing the air-water boundary and hitchhiking on surfaces
	Keynote lectures, chair: Yihao Chen	
	15:40-16:10	Yang Chai , <i>Hong Kong Polytechnic University</i> Bioinspired in-sensor computing
	16:10-16:40	Hongen Liao , <i>Tsinghua University</i> Flexible medical robotics for intelligent minimally invasive surgery
	16:40-17:10	Tingrui Pan , <i>University of Science and Technology of China</i> Aquatic skin: environmentally incorporated wearables enabled by inverse iontronic sensing
	Invited lectures, chair: Yihao Chen	
	17:10-17:30	Benhui Hu , <i>Nanjing Medical University</i> Devices enabling in-sensor analysis for accurate diagnosis and prosthetics
	17:30-17:50	Mengdi Han , <i>Peking University</i> Submillimeter-scale multimaterial terrestrial robots
	17:30-19:00	Poster

Sunday, December 11, 2022 (Beijing time)

Morning	Keynote lectures, chair: Xingyu Jiang	
	08:30-09:00	Wei Gao , <i>California Institute of Technology</i>
		Skin-interfaced wearable biosensors
	09:00-09:30	Sheng Xu , <i>University of California San Diego</i>
		Plenty of room under the skin: A wearable's perspective
	Invited lectures, chair: Xingyu Jiang	
	09:30-09:50	Xinge Yu , <i>City University of Hong Kong</i>
		Intelligent skin electronics for healthcare monitoring and touch VR
	09:50-10:10	Changsheng Wu , <i>National University of Singapore</i>
		Wireless, miniaturized near-infrared-spectroscopy sensors for continuous monitoring of tissue oxygenation
	Keynote lectures, chair: Wei Gao	
	10:10-10:40	Xingyu Jiang , <i>Southern University of Science and Technology</i>
		Stretchable bioelectronic interface using liquid metal encapsulated in microfluidics
	10:40-11:10	Zhou Li , <i>Institute of Nanoenergy and Nanosystem, CAS</i>
		Self-powered medical devices and electrical stimulation therapy
	Invited lectures, chair: Wei Gao	
11:10-11:30	Wei Yan , <i>Nanyang Technological University</i>	
	Fiber electronics for fabric computation	
11:30-11:50	Enming Song , <i>Fudan University</i>	
	Flexible electronic systems with silicon-nanomembrane transistor array as neural interfaces	