**Draft Program as of May 20, 2016**

**Nature Conference on Flexible Electronics - Challenges and Opportunities**  
Novotel Nanjing East Suning Galaxy, Nanjing, China  
June 5-9, 2016

**Sunday, June 5**

10.00 – 22.00  **Conference Registration**

**Session One: Flexible Opportunities**

**Monday, June 6**

14:00 – 14:15  **Opening Remarks**

14:15 – 15:00  **Plenary Talk**  
Zhenan Bao (Stanford University)  
*Skin-Inspired Organic Electronic Materials and Devices*

15:00 – 15:25  Yunqi Liu (Institute of Chemistry, CAS)  
*High-Performance Flexible Field-Effect Transistors and Circuits*

15:25 – 15:50  Antonio Facchetti (Northwestern University)  
*Flexible Opto-Electronics: New Opportunities for Unconventional Materials and Devices*

15:50 – 16:05  **Poster Exhibition & Tea Break**

16:05 – 16:30  Qibing Pei (University of California, Los Angeles)  
*Intrinsically Stretchable Polymer Electronic Materials and Devices*

16:30 – 16:55  Dae-Hyeong Kim (Seoul National University)  
*Wearable Healthcare Devices Using Soft Bioelectronics*

17:00 – 19:30  **Dinner**

19:30 – 21:00  **Poster Exhibition**
Session Two: In Search of Flexibility

Tuesday, June 7

08:30 – 09:15  Plenary Lecture
Yibing Cheng (Monash University)
Printing of Flexible Thin Film Solar Cells

09:15 – 09:40  Oliver Schmidt (IFW Dresden)
Unconventional Applications of Flexible Nanomembrane Materials

09:40 – 10:05  Yonggang Huang (Northwestern University)
Assembly of Complex, Three-Dimensional Micro/Nano-Architectures by Compressive Buckling with Applications in Stretchable Electronics

10:05 – 10:20  Xiaogang Liu (National University of Singapore)
Controlling Photon Upconversion in Lanthanide-Doped Nanocrystals

10:20 – 10:35  Yung Doug Suh (SungKyunKwan University)
TBD

10:35 – 10:50  Poster Exhibition & Tea Break

10.50 – 11.15  Kilwon Cho (Pohang University of Science and Technology)
Flexible Organic Electronics based on Graphene Electrodes

11:15 – 11:40  Luisa Torsi (University of Bari)
Ultra-Low Detection Limits with Organic Electrolyte Gated TFTs

11:40 – 11:55  Hua Zhang (Nanyang Technological University)
TBD

11:55 – 12:10  Ronn Andriessen (Holst Centre)
Towards Roll-to-Roll Manufacturing of Perovskite Based PV Modules

12.10 – 14.00  Lunch

14.00 –14.45  Plenary Lecture
Paul Burn (University of Queensland)
From Molecules to Supra-Macromolecules: The Application of Molecular Engineering to Light-Emitting Materials

14:45 – 15:10  Lian Duan (Tsinghua University)
Flexible Organic Light-Emitting Diodes for Displays and Lightings
15:10 – 15:25  Liming Dai (Case Western Reserve University)
*Intrinsically Conducting Polymers and Carbon Nanomaterials for Flexible and Stretchable Energy Devices*

15:25 – 15:40  Zijian Zheng (The Hong Kong Polytechnic University)
*Printable Cu Electrodes for Flexible Thin-film Electronics*

15:40 – 15:55  Dong June Ahn (Korea University)
*TBD*

15:55 – 16:10  Juan Cabanillas Gonzalez (Ciudad Universitaria de Cantoblanco)
*Realizing Low-Threshold Yellow-Green Polymer Lasing in Energy Transfer Blends: An Ultrafast Dynamics Study of Novel Hosts for F8BT*

16:10 – 16:25  **Poster Exhibition & Tea Break**

16:25 – 16:50  Byoung Hoon Lee (University of California)
*High-Mobility Polymer Field-Effect Transistors for Flexible Electronics*

16:50 – 17:15  Xuhui Zhu (South China University of Technology)
*Small-Molecule Phenanthroline Derivative as Promising Cathode Interlayer for Printable Organic Photovoltaics*

17:15 – 17:30  Nick Wu (West Virginia University)
*Plasmonic Solar Energy Devices*

17:30 – 17:45  Bin Liu (National University of Singapore)
*TBD*

17:45 – 18:00  Qichun Zhang (Nanyang Technological University)
*Organic Small Molecules as Light-Driven Photocathodes for Water Reduction*

18:00 – 18:15  Guozhen Shen (Institute of Semiconductors, CAS)
*Flexible Sensors: From Single Functional Devices to Multifunctional Systems*

18:15 – 19:30  **Dinner**

19:30 – 21:00  **Poster Exhibition**
### Session Three: Stretching the Limits

**Wednesday, June 8**

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| 08.30 – 09.15 | Plenary Lecture  
Donal Bradley (Oxford University)  
*TBD*               |
| 09:15 – 09:40 | Yang Yang (University of California, Los Angeles)  
*Recent Progress of Flexible Electronics at UCLA* |
| 09:40 – 09:55 | Tze Chien Sum (Nanyang Technological University)  
*Challenges to Achieving Optical Gain in Layered Two-Dimensional Halide Perovskite Thin Films* |
| 09:55 – 10:10 | Ting Yu (Nanyang Technological University)  
*Optoelectronic Study of the Emerging Two-Dimensional Semiconductors for Potential Flexible Valley Light Emitters and Photodetectors* |
| 10:10 – 10:25 | Yian Tai (National Taiwan University of Science and Technology)  
*An Aggregation Switchable Polymer for Cathode and Anode Buffer Layers of Organic Electronics* |
| 10:25 – 10.40 | Poster Exhibition & Tea Break                                        |
| 10:40 – 11:05 | Zhonglin Wang (Georgia Tech)  
*Triboelectric Nanogenerators as Stretchable/Flexible Power Sources and Self-Powered Sensors* |
| 11:05 – 11:30 | Hideo Hosono (Tokyo Institute of Technology)  
*Amorphous Oxide Semiconductors for Flexible Displays* |
| 11:30 – 11:45 | Huagui Yang (Griffith University)  
*Functionalization of Perovskite Films for Moisture-tolerant Solar Cells* |
| 11:45 – 12:00 | Hao Zeng (University at Buffalo, SUNY)  
*Chalcogenide Perovskites- An Emerging Class of Ionic Semiconductors* |
| 12:00 – 12:15 | Kanyi Pu (Nanyang Technological University)  
*Organic Semiconducting Nanoparticles as Amplified Photonic Platform for Theranostics* |
| 12:15 – 14:00 | Lunch                                                               |
Session Four: Forum on a Flexible Future

**Wednesday, June 8**

14:00 – 14:25 **Introductory Talk**  
Ikuzo Ogawa (Sumitomo Chemical)  
*Printed Electronics Materials and Their Application*

14:25 – 16:00 **Round-table Discussion**  
*Round-table discussion about the current status and future of flexible electronics, with emphasis on the most promising research directions and the practical difficulties that need to be overcome on the road to commercialization*

16:00 – 16:30 **Closing Ceremony**

**Thursday, June 9**

09:00 – 18:00 **Departure**