**Session Title**: Materials and devices for vibration-based energy harvesting and sensing applications

**Introduction**:

This session aims to advance our fundamental understanding and technology development of vibration and energy harvesting applications. Abstracts may cover theoretical and experimental studies of vibration and energy harvesting technique and data analysis technique for self-powered devices or hybrid nanogenerators. Interdisciplinary works that combines energy harvesting system and other areas such as biomedical, deep learning, Internet of Things are particularly encouraged.

**Topics**:

* Fundamental material science for vibrational energy harvesting and sensing systems
* Design, integration and application of device for harvesting multi-type energies
* Vibration energy harvesting for wearable/stretchable/flexible electronics
* Multiscale modelling of energy harvesting and sensing systems
* Application of energy harvesting and sensing system in interdisciplinary areas

**Session Chairs**

* Yan Zhang, Professor

Affiliation: State Key Laboratory of Powder Metallurgy, Central South University, China

Email: yanzhangcsu@csu.edu.cn

Phone:

* Yaojin Wang, Professor

Affiliation: School of Materials Science and Engineering, Nanjing University of Science and Technology, China

Email: yjwang@njust.edu.cn

Phone:

* Ya Yang, Professor

Affiliation: Beijing Institute of Nanoenergy and Nanosystems, Chinese Academy of Sciences, China

Email: yayang@binn.cas.cn

Phone:

* Guangzu Zhang, Professor

Affiliation: School of Optical and Electronic Information, Huazhong University of Science and Technology, China

Email: zhanggz@hust.edu.cn

Phone: