



P. Device for Energy (Solar Cell, Power Device, Battery, etc.) 분과

2019년 2월 14일(목), 09:00-10:45

Room J (란실, 5층)

[TJ1-P] Mechanical & Heat Energy Conversion Devices

좌장: 박정웅 교수(가천대학교), 류학기 교수(아주대학교)

<p>TJ1-P-1 09:00-09:15</p>	<p>Boosting the Energy Conversion Efficiency of a Combined Triboelectric Nanogenerator-Capacitor</p> <p>Jin Pyo Lee¹, Jae Won Lee¹, Bo-Kyung Yoon², Hee Jae Hwang³, Sungwoo Jung⁴, Katherine A. Kim², Dukhyun Choi³, Changduk Yang⁴, and Jeong Min Baik¹</p> <p>¹School of Materials Science Engineering, KIST-UNIST-Ulsan Center for Convergent Materials, UNIST, ²School of Electrical and Computer Engineering, UNIST, ³Department of Mechanical Engineering, Kyung Hee University, ⁴Department of Energy Engineering, UNIST</p>
<p>TJ1-P-2 09:15-09:45</p>	<p>[초청]</p> <p>Toward Self-Powered Sensor Systems based on Triboelectrification</p> <p>Jeong Min Baik <i>School of Materials Science and Engineering, UNIST</i></p>
<p>TJ1-P-3 09:45-10:00</p>	<p>Impedance Spectroscopy-Based Electrical Equivalent Model of a Thermoelectric Module for the Figure of Merit (ZT)</p> <p>Jaewoo Lee, J.H. Kim, J. Im, S.Y. Lim, E.B. Jeon, and S.E. Moon <i>ICT Materials and Components Research Lab, ETRI</i></p>
<p>TJ1-P-4 10:00-10:15</p>	<p>Remarkable Output Power Enhancement of Sliding-Mode Triboelectric Nanogenerator through Direct Metal-to-Metal Contact with the Ground</p> <p>U Jeong Yang, Jae Won Lee, Jin Pyo Lee, Gi Hyeon Han, and Jeong Min Baik <i>School of Materials Science and Engineering, KIST-UNIST-Ulsan Center for Convergent Materials, UNIST</i></p>
<p>TJ1-P-5 10:15-10:30</p>	<p>Improved Performance of Triboelectric Nanogenerator Using Hierarchical Surface Morphology</p> <p>Minwoo Jung¹, Changwool Kwon¹, Subin Kim¹, and Jinsub Park^{1,2}</p> <p>¹Department of Electronics and Computer Engineering, Hanyang University, ²Department of Electronic Engineering, Hanyang University</p>
<p>TJ1-P-6 10:30-10:45</p>	<p>Development of Solar Water Heating System Using Photo-Thermal Conversion Material</p> <p>Hye Jin Lee^{1,2}, Won Jun Choi², and Jeong Min Baik¹</p> <p>¹School of Mechanical and Advanced Materials Engineering, KIST-UNIST-Ulsan Center for Convergent Materials, UNIST, ²Center for Opto-Electronic Materials and Devices, KIST</p>