Comments from Award Recipient

I am very pleased to receive the Young Researcher Paper Award 2019 from *Sensors and Materials*, which is an authoritative journal on sensors and sensing materials. Our study was carried out in collaboration with Mr. Takuya Tsukamoto and Prof. Takaaki Suzuki of Gunma University and Dr. Shinpei Ono and Dr. Kazumoto Miwa of the Central Research Institute of Electric Power Industry. I am deeply grateful to my team for their guidance and advice. This study was launched as a joint interdisciplinary research project under two JST-PRESTO programs promoted by Prof. Suzuki and Dr. Ono. In this study on vibration energy harvesters to provide electric power for sensor nodes of wireless sensor networks, we proposed a novel forming method to simultaneously perform the solidification, polarization, and microstructure transfer of a solidified ionic liquid using a mold with 3D micropatterns fabricated by 3D lithography. We made great progress through collaboration with different fields by combining 3D MEMS technology and material research on the solidified ionic liquid. I will continue to advance this research toward the realization of an IoT society.

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http://www.st.gunma-u.ac.jp/20200410-msiida/
NanoFabrication Platform
Ministry of Education, Culture, Sports, Science and Technology
http://nsn.kyoto-u.ac.jp/topic/news-r02-1.html