

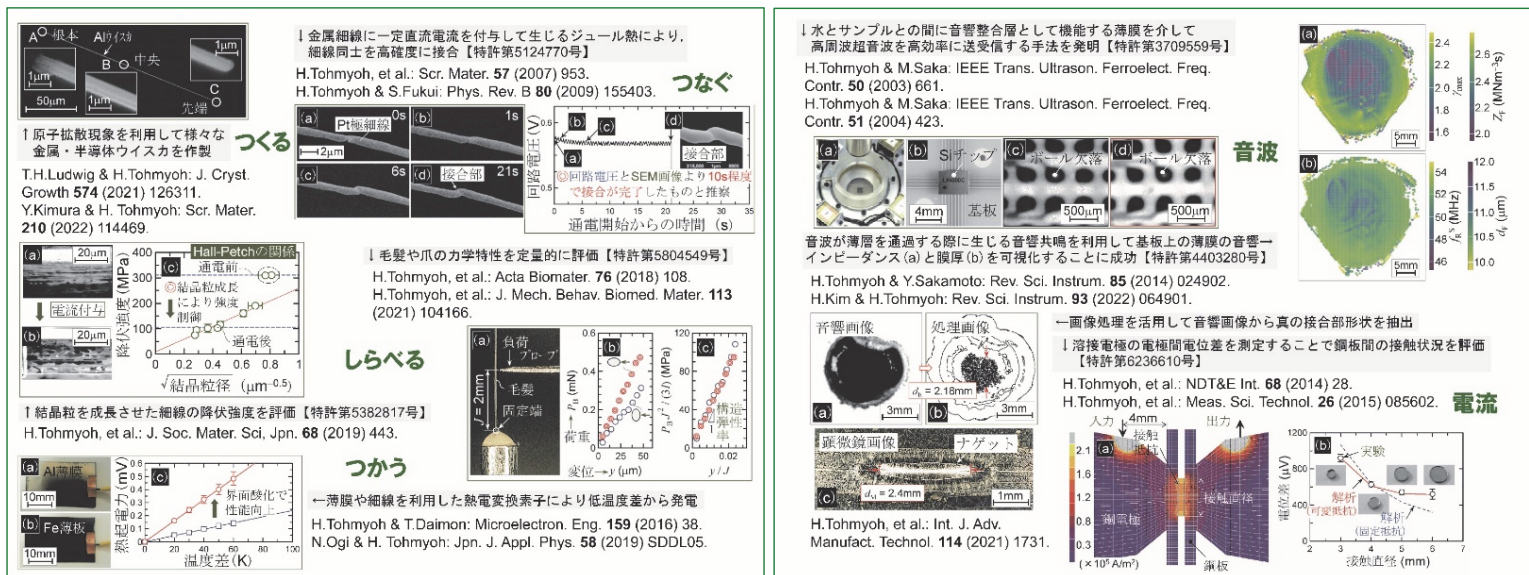
DEPARTMENT OF FINEMECHANICS MECHANICS OF MATERIALS SYSTEM

Tohmyoh • Shirasu Laboratory

Prof. H.Tohmyoh / Assoc.Prof. K.Shirasu / Assist.Prof. Y.Kimura

TO CREATE NEW MATERIALS SYSTEM

Our laboratory conducts research works to create new materials system through an interdisciplinary approach. Specifically, we are developing the peripheral technologies (**fabrication** • joining • **characterization** • utilization) to utilize fine-scale materials with excellent physical properties and geometrical features.



Peripheral technologies to utilize fine-scale materials

Evaluation of materials system using sound and current

Research Topic

1. Study on high-strength joining of fine-scale metallic materials (left)
2. Study on evaluation of thin films by acoustic resonance imaging (right)
3. Study on evaluation of mechanical properties of human hair and nails
4. Study on the development of molecular sensors using nanostructures
5. Study on 3D-printing of fiber-reinforced thermoplastics on metal substrates

◎Please also check the laboratory web site.

<https://web.tohoku.ac.jp/tohmyoh/index.html>

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