



Kazuya (Kaz) Tajiri

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My background

Ph.D: Penn State Univ., MS: Georgia Tech

Transport Phenomena in Energy Conversion and Propulsion Systems
(Experimental / Computational)

Areas of research/expertise

Electrochemical Devices (Fuel cells, Electrolyzers, Metal-air batteries, etc.)

- ✓ Water transport in porous media
- ✓ Two-phase flows in micro-/mini-channels

Unsteady Flow Devices (Wave rotor, Pulse combustor, etc.)

- ✓ Small-scale supersonic nozzle flows
- ✓ Shock waves in micro-/mini-channels

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How I can contribute

- Current and resistance distribution measurement in **fuel cell** land-channel geometry. (We are the only group who can measure in the world.)
- Measurement and model development of gas-liquid **two-phase flow** pressure drop in mini-channels.
- Fluid dynamic analysis of **Ink jet printing** of catalyst layer for fuel cells and batteries.
- Organizing **Microfluidic research group and lunch meeting** – please contact me if you are interested in.

