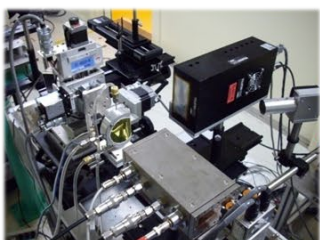
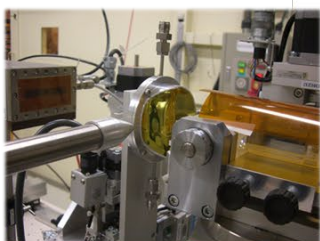
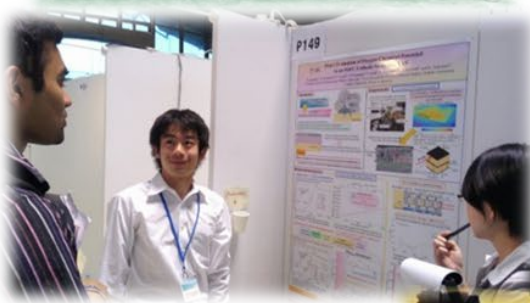
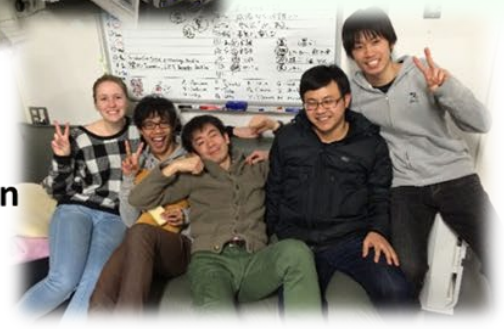
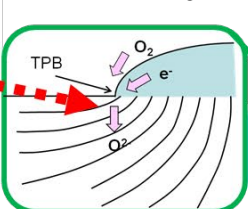


~ Department of Mechanical Systems Engineering ~ Solid-State Ionics Devices & Systems AMEZAWA / Nakamura Lab.

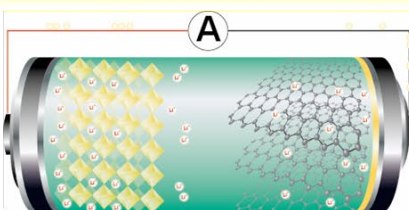


Operando analysis

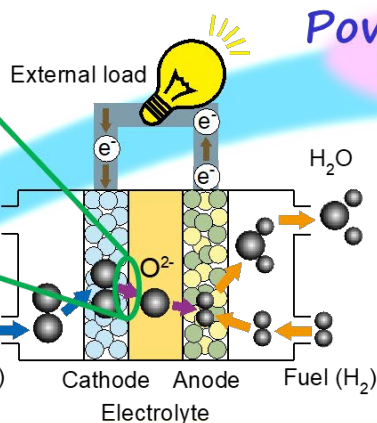


Novel analytical techniques

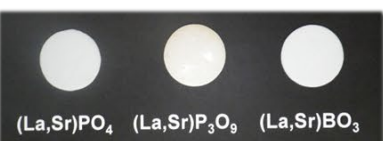
Solid state ionics ↔ Energy conversion devices



Power storage
"Batteries"



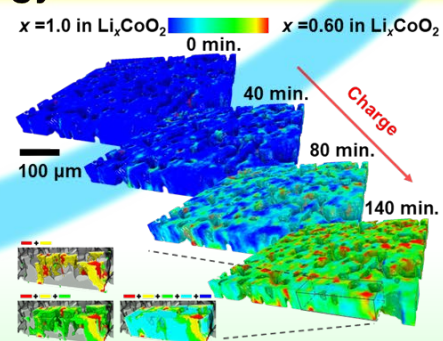
Power generation
"Fuel cells"



Development of novel materials



Mechanism of ionic transport & reaction



Our laboratories contribute to solve environmental and energy problems throughout fundamental and application researches on environmental-friendly energy-conversion devices, such as solid oxide fuel cells and lithium ion secondary batteries. In particular, focusing on solid-state ion-conducting materials, we are challenging to establish an academic discipline on "solid-state ionics", and applying this to develop novel materials and to improve performance of the energy conversion devices.

Place : Katahira Campus, South Multidisciplinary Research Labs. #1, Room 306

Website : <http://www.tagen.tohoku.ac.jp/labo/amezawa/index.html>

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