Xuhui Xu

Personal Details

Nationality: Chinese
Place of Birth: Shanghai, China
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Professional Summary

Status: PhD student.
Major: Physics.
Affiliations: Regular member (graduate student) of the Physical Society of Japan.
Research Topic: Solid-liquid Interface, Synchrotron X-ray Diffraction, Thin Film Structural Analysis.
Scholarship: JASSO/MEXT Honors Scholarship 2022, Tohoku University Global Hagi Scholarship, Tohoku University AGS RISE Program.
Languages: Mandarin (native), English (fluent), Japanese (conversational).

Education

Tohoku University, Sendai, Japan 2024 – Present

For *Doctor of Philosophy (Science)* in Physics.

Tohoku University, Sendai, Japan 2022 – 2024

Master of Science in Physics.

Shanghai University, Shanghai, China 2018 – 2022

Bachelor of Science in Applied Physics.

Key Skills Summary

- Synchrotron X-ray Experiment and Data Processing.
- Basic programming and LaTeX ; computer and numerical literacy.
- Building websites, packaging open source software and self-hosting package repository.
- Visualization software, image rendering and data plotting.

Publication

1. Atsuro Fujisawa, Xuhui Xu, Yuta Ishii, Hidekazu Shimotani, Yuta Inoue, Yuto Miyahara, Kohei Miyazaki, and Yusuke Wakabayashi, Surface Structure Modulation of $La_{0.6}Sr_{0.4}CoO_3$ Films on $SrTiO_3$ (001) Substrate under Electrochemcial Conditions, ACS Applied Materials & Interfaces **17**, 57603 (2025).

Oral Presentation

2. Xuhui Xu, Yuta Ishii, Hidekazu Shimotani, Yuta Inoue, Yuto Miyahara, Kohei Miyazaki, Daisuke Okuyama, Hajime Sagayama and Yusuke Wakabayashi, Structural Investigation of Water Splitting Catalyst (La,Sr)CoO_3 Epitaxial Films, JPS2025, 16aSK311-3, Higashihiroshima, Japan (Sept. 16th - 19th, 2025).
1. Xuhui Xu, Atsuro Fujisawa, Yuta Ishii, Hidekazu Shimotani, Yuta Inoue, Yuto Miyahara, Kohei Miyazaki, and Yusuke Wakabayashi, Structure Change Caused by an Electrochemical Potential in (La,Sr)CoO_3 Film, JPS2024, 16aE302-12, Sapporo, Japan (Sept. 16th - 19th, 2024).

Poster Presentation

2. Xuhui Xu, Atsuro Fujisawa, Yuta Ishii, Hidekazu Shimotani, Yuta Inoue, Yuto Miyahara, Kohei Miyazaki, and Yusuke Wakabayashi, Structural Change Caused by an Electrochemical Treatment in (La,Sr)CoO_3 Film, ISSS-10, 2P78, Kitakyushu, Japan (Oct. 20th - 24th, 2024).
1. Xuhui Xu, Atsuro Fujisawa, Yuta Ishii, Hidekazu Shimotani, Yuta Inoue, Yuto Miyahara, Kohei Miyazaki, and Yusuke Wakabayashi, Structural Investigation of an Oxygen Evolution Catalyst $La_{1-x}Sr_xCoO_3$ film, JSR2024, 11P-42S, Himeji, Japan (Jan. 10th - 12th, 2024).

Invited Talk

1. Xuhui Xu, Atsuro Fujisawa, Yuta Ishii, Hidekazu Shimotani, Yuta Inoue, Yuto Miyahara, Kohei Miyazaki, and Yusuke Wakabayashi, Surface structure modulation during electrochemical processes on water splitting catalyst (La,Sr)CoO_3 film, SpRUC solid-liquid interface workshop, Online (Mar. 6th, 2025).

Suggested Referees

Professor Yusuke Wakabayashi,
(Current Supervisor)
Graduate School of Science, Tohoku University,
Sendai, Japan.
wakabayashi@tohoku.ac.jp

Professor Wei Ren,
(Undergraduate Supervisor)
College of Sciences, Shanghai University,
Shanghai, China.
renwei@shu.edu.cn