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Biography

October 2023 – current: Ph.D. Course, Graduate School Information Science and Technology, Hokkaido University (Supervisor: Prof. Tsukasa Katayama)

June 2022 – October 2023: Internship, China coal Co., Ltd.

September 2020 – June 2022: Master of Materials and Chemical Engineering, South University of Science and Technology of China

September 2016 – June 2020: Bachelor of Geophysics, China University of Geosciences, Beijing, China

Original Papers (4)

[5] Rion Muraki, Ko Marunouchi, **Weikun Zhou**, Akira Chikamatsu, Hiromichi Ohta, and Tsukasa Katayama*, “Fluoride-target-assisted growth of Pb_2OF_2 oxyfluoride films with anion ordering and high dielectric constant”, ***J. Mater. Chem. C***, 13, 21106-21110 (2025). (September 16, 2025) (DOI: [10.1039/D5TC01975C](https://doi.org/10.1039/D5TC01975C))

[4] **Weikun Zhou**, Atsushi Taguchi*, Lizhikun Gong, Ren Mitsuya, Diwen Chen, Hiromichi Ohta, and Tsukasa Katayama*, “Fabrication and light-driven displacement of ferroelectric freestanding epitaxial sheets of lead lanthanum zirconate titanate”, ***Small*** e06585 (2025). (August 29, 2025) (DOI: [10.1002/sml.202506585](https://doi.org/10.1002/sml.202506585))

[3] **Weikun Zhou**, Diwen Chen, Ren Mitsuya, Hiromichi Ohta, and Tsukasa

Katayama*, "Millimeter-Sized Epitaxial Ferroelectric BaTiO₃ Freestanding Sheets Peeled from Al₂O₃ Substrates", *ACS Appl. Electron. Mater.* 7, 4552-4556 (2025). (DOI: [10.1021/acsaelm.5c00411](https://doi.org/10.1021/acsaelm.5c00411))

[2] **Weikun Zhou**, Lihikun Gong, Ren Mitsuya, Diwen Chen, Hiromichi Ohta, and Tsukasa Katayama*, "Water-soluble CaO sacrificial layer heteroepitaxially grown on yttria-stabilized zirconia substrate for large ferroelectric BaTiO₃ sheets", *J. Mater. Chem. C* 13, 3424-3429 (2025). (December 19, 2024) (DOI: [10.1039/D4TC04585H](https://doi.org/10.1039/D4TC04585H))

[1] **Weikun Zhou**, Wenqiao Han, Yihao Yang, Liang Shu, Qinggui Luo, Yanjiang Ji, Cai Jin, Yingli Zhang, Jiahao Song, Mao Ye, Qi Liu, Songbai Hu, and Lang Chen*, "Synthesis of freestanding perovskite oxide thin films by using brownmillerite SrCoO_{2.5} as a sacrificial layer", *Appl. Phys. Lett.* 122, 062901 (2023) (February 06, 2023) (Doi: [10.1063/5.0131056](https://doi.org/10.1063/5.0131056))

Conference (3)

[3] **Weikun Zhou**, Diwen Chen, Ren Mitsuya, Hiromichi Ohta, Tsukasa Katayama, "Water-soluble CaO sacrificial layer heteroepitaxially grown on yttria-stabilized zirconia and R-plane sapphire substrates for large ferroelectric BaTiO₃ sheets", [Japan-Taiwan-India Symposium on Materials & Information Science for Future Electronics Jointed with the 26th RIES-HOKUDAI International Symposium "共"\[kyou\] & 5+2 Joint Symposium](#), Sapporo, November 26-27, 2025 (Poster)

[2] **Weikun Zhou**, Diwen Chen, Ren Mitsuya, Hiromichi Ohta, and Tsukasa Katayama, "Water-soluble CaO sacrificial layer heteroepitaxially grown on yttria-stabilized zirconia and R-plane sapphire substrates for large ferroelectric BaTiO₃ sheets", [E-MRS 2025 Fall Meeting](#), Warsaw, Poland, September 15-18, 2025.

[1] **Weikun Zhou**, Diwen Chen, Ren Mitsuya, Hiromichi Ohta, Tsukasa Katayama, "Water-soluble CaO sacrificial layer heteroepitaxially grown on yttria-stabilized zirconia substrate for large ferroelectric BaTiO₃ sheets", [2025 年第 72 回応用物理学会春季学術講演会](#), 東京理科大学野田キャンパス, 2025.3.14-17.