

## 2025 International Conference for Analysis in Steel Industry



# ICASI2025

<https://conference-lab.org/ICASI2025/index.html>

Date: September 11-13, 2025

Poster Session (IP-XX) : Friday 12th 17:30-20:00

Poster : W1.2m×H1.8m

(\* : student poster presentation)

IP-01	Yasutada Suzuki	DEVELOPMENT OF A PHOTOMETRIC TITRATOR USING A WHITE-COLOR LED AND AN RGB COLOR SENSOR FOR IRON AND STEEL ANALYSIS
IP-02*	Taishi Kitamura	REDOX BEHAVIOR OF DIPHENYLAMINE IN VANADIUM ANALYSIS OF STEEL
IP-03*	Daina Numao	TIFICATION BY REDOX TITRATION UTILIZING SUBSTANCE DIFFUSION AT BIAQUEOUS INTERFACE
IP-04*	Musashi Fujisawa	LEACHING BEHAVIOR OF INORGANIC AND ORGANIC COMPONENTS FROM MORTAR BLOCKS CONTAINING SLAG AND WOOD CHIPS AS FINE AGGREGATES
IP-05*	Yuki Soma	LEACHING OF MANGANESE(II) IONS FROM STEEL-MAKING SLAGS WITH STRONG ACID SOLUTIONS AND X-RAY ANALYSES OF RESULTING SLAGS
IP-06*	Ryota Yamasaki	REASSESSMENT OF UV-VIS SPECTROMETRIC METHODS FOR TRACE DETERMINATION OF SILICON AND TUNGSTEN IN STEEL
IP-07*	Hiroki Kitabayashi	DEVELOPMENT OF A PRINT TEST METHOD TO VISUALIZE COPPER SEGREGATION IN RECYCLED STEEL MATERIALS
IP-08*	Yudai Hase	DEVELOPMENT OF LIBS MULTIPLE SPECTRUM SPECTROMETER
IP-09*	Yuusaku Kurio	Development of industrial remote LIBS technology using autofocus technology
IP-10*	Shoya Tabata	CT-TDLAS application for total leak amount using digital twin
IP-11*	Keito Arisawa	DEVELOPMENT OF LIBS MAPPING TECHNOLOGY USING MICROSCOPE
IP-12*	Yunosuke Aida	Analysis of chemical configuration and morphology of Mn in steel slag using X-ray absorption spectroscopy
IP-13*	Yizhuo Chen	Acceleration of Iron-Mediated Hydrogen Production and CO <sub>2</sub> Fixation by Addition of Soluble Carbonates
IP-14*	Changqing Shu	Physics-Enhanced Machine Learning for Predicting Strength of High-Carbon Chromium Steel during Thermomechanical Processing and Spheroidizing Annealing
IP-15*	Miki Soma	QUANTITATIVE RECOVERY OF BARIUM SULFATE IN GRAVIMETRIC ANALYSIS OF SULFUR IN STEEL
IP-16*	Kenichiro Tsuruta	TRIAL OF 3-DIMENSIONAL OBSERVATION OF REFRACTORY EROSION BEHAVIOR UNDER SIMULATED DRI MELTING PROCESS CONDITIONS
IP-17*	Langlang Wang	Analytical Performance Improvement of LIBS for Multi-Element Analysis in Steel Samples: A Comparison of Different Pulse Modes and Sampling Approaches