

Poster session

Odd numbers: THU, Nov. 14, 11:30-12:30

Even numbers: FRI, Nov. 15, 11:25-12:35

Poster Number P-01~P-11 Yayoi auditorium Ichijo-Hall

- P-01** Estimation of ripeness of pears by using a small spectrometer
(Institute of Food Research, NARO) ○Miho Sesumi, Akifumi Ikehata
- P-02** A comprehensive analysis of fragrance components in strawberries using non -
targeting omics- Correlation Between Near-Infrared Spectral Changes and
Ripening-
(¹The University of Tokyo and ²Teikyo Heisei University) ○Miyashita Kazunari,
Tanaka Takayoshi¹, Syuntaro Isoya², Tatsuro Maeda², Tetsuya Araki¹
- P-03** Identification of Mango Stem-End Rot Using a Hyperspectral Camera
(University of Miyazaki) ○Kaito Makinose, Hikari Yoshioka, Atsuhiro
Ohkubo, Yudai Iwakiri, Masakazu Arai
- P-04** Validation study on light scattering changes in kiwifruit during postharvest
storage using time - resolved transmittance spectroscopy (Nagoya University)
○Te Ma, Tetsuya Inagaki, Satoru Tsuchikawa
- P-05** Development of an early bruise inspection method for multiple apple cultivars
using NIR-HSI and GIC (Geometrical Influence Correction) (Nagoya University)
○Bin Li, Te Ma, Tetsuya Inagaki, Satoru Tsuchikawa
- P-06** Non-destructive measurement for wood microfibril angle by using near-infrared
spectroscopy
(¹Forestry and Forest Products Research Institute, ²Nihon University) ○Miho
KOJIMA¹, Yohei KURATA², Hisashi ABE¹
- P-07** Non-destructive simultaneous determination of fat content and freshness of
bonito using a small spectrometer (¹Shizuoka Prefecture Research Institute of
Fishery and Ocean, ²Ishida Tech Co., Ltd., ³Ichimaru Co., Ltd.) ○Satoru
Yamauchi¹, Masahiro Nakahara², Makoto Honda³
- P-08** Model comparison between conventional PLSR and PLSR with imputed targets :
a case study of fiber digestibility in forage(¹Animal Research Center, Hokkaido
Research Organization(HRO), ²Dairy Research Center, HRO) ○Yoshiki Sumiya¹,
Tsuneki Tanaka²

- P-09** Salinity Measurement Differences between NIR and ATR-FUV spectroscopy (1T-LSI, University of Tsukuba, 2Institute of Food Research, NARO) ○Bingjun Zhu¹, Xinyue Li², Akifumi Ikehata^{1,2}
- P-10** Non-Contact Shape Inspection Using Infrared Structured Light 3D Scanner and Point Cloud Processing for 3D Food Printing (The University of Tokyo)
○Masatoshi Yoshimura, Koki Ito, Itaru Sotome
- P-11** Development of visible and near-infrared LED combined with various phosphors (Panasonic Corporation Electric Works Company) ○Koki Iwata, Takumi Tsukada, Shozo Oshio, Mitsuru Nitta, Tsutomu Furuta

Poster Number P-12~P-22 Yayoi auditorium Annex _____

- P-12** Development of low-frequency Raman spectroelectrochemistry with near-infrared excitation and analysis of 9,10-diphenylanthracene radical ions (Graduate School of Science and Engineering, Chuo University) ○Koki Taketo, Hajime Okajima
- P-13** CO₂ immobilization by NH₃ on the acidic and basic ZrO₂-based catalysts (1Osaka Prefecture University, 2Osaka Metropolitan University) 1Atsuhiro Yamagami, 1Kenta Miyamoto, 2Masaya Matsuoka, 2Masato Takeuchi
- P-14** Prediction of light scattering and absorption properties using machine learning: Verification by numerical calculation (Hokkaido University) ○Hiromichi Nozaki, Hiroyuki Fujii, Kazumichi Kobayashi, Masao Watanabe
- P-15** Measuring ammonia concentration in water using 1.5 μm band near-infrared spectroscopy (Osaka Metropolitan University Graduate School of Engineering)
○Ryosuke Sano, Osanori Koyama, Kanami Ikeda, Makoto Yamada
- P-16** Deterioration evaluation of Polylactic Acid in water by spectroscopy (Osaka Metropolitan University Graduate School of Engineering) ○Kohei Ikuta, Osanori Koyama, Kanami Ikeda, Makoto Yamada
- P-17** Discriminant analysis for plastics based on standard deviation of spectral intensity (Institute of Food Research, NARO) ○Takuma Genkawa, Mizuki Tsuta, Akifumi Ikehata
- P-18** Detection of polyurethane fibers in polyester fabrics using a handheld near-infrared spectrometer (1Nissenken Quality Evaluation Center, 2Tokyo University of Agriculture and Technology)
○Miyuki Funahashi¹, Takeshi Ando¹, Norio Yoshimura, Masao Takayangi²

- P-19** Monitoring of blended ratio of fiber during the spinning process (Tokyo University of Agriculture and Technology) ○Shoma Suzuki, Norio Yoshimura, Masao Takayanagi
- P-20** Near-infrared spectroscopy and hyperspectral imaging for identification of lotus fibers in textiles (Gango-ji institute for research of cultural property) ○Yuka Ohashi
- P-21** Non-destructive discrimination of ancient glue for manuscripts and rice powder in Kozo papers by near-infrared spectroscopy (Gango-ji institute for research of cultural property) ○Yuka Ohashi
- P-22** Plants and Additives Classification of Washi by Infrared Spectroscopy and Principal Component Analysis (¹KEK, ²Historiographical Institute The University of Tokyo) ○Masaki Ishida¹, Hideaki Takechi¹, Akihiko Takashima², Satoshi Yamaguchi², Ayako Shibutani², Kanako Hirasawa², Katsuya Hirota¹, Yosuke Onoe²