



Optics and Photonics Group Lunchtime Seminar



Chemical Information
Science

From Surface Chemistry to Chemical Information Science: Exploration of Informative Human Body Metabolites

University of Kitakyushu, Japan
Seung-Woo Lee, Prof. (PhD)



13:30 Thursday 2 February 2023
Life Sciences - B3
All Welcome

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“From surface chemistry to chemical information science: exploration of informative human body metabolites”

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MS Teams link

Chemicals that are excreted from the human body, called metabolites, are recently recognized as an essential source of disease information. Among them, odorous compounds that can be defined as volatile organic and inorganic compounds and their mixes are playing important roles in human life and activity. Thus, many important analytical tasks can be solved by odor assessment, such as environment monitoring and food assessment for human health and safety. “Detection of odor” is the uniting point for such purposes, and it has been our main project conducted in Japan over 20 years. In this seminar, I will introduce some useful coating techniques related to surface chemistry and achievements in optical fibre sensor fabrication, including prototypes developed for commercialisation in the near future.