



August 22-27, 2027 | ICC JEJU, Jeju Island, Korea

Professor Emeritus Yukio Furukawa

Waseda University, Japan



Yukio Furukawa studied the electronic absorption and vibrational spectroscopies of conjugated conducting polymers and their electric and thermoelectric properties. He clarified electronic and vibrational states of carriers, polarons and spinless bipolarons, and their mobilities. He made in situ and operando studies on polymer electronic devices such as light-emitting diodes, transistors, and solar cells. He studied structure of polymers in the devices using Raman spectroscopy. He observed carriers generated in polymer transistors using voltage-induced infrared difference spectroscopy. He received M.Sc. from the University of Tokyo in 1981. He was an Assistant of Tohoku University in 1982–1987. He became an Assistant of Department of Chemistry, the University of Tokyo in 1988. He received D.Sc. from the same university in 1988. He was a Lecturer in 1990–1992 and an Associate Professor in 1992–1997. He joined to the faculty at Department of Chemistry, Waseda University in 1997 and was promoted to a full Professor in 1997. He retired from Waseda University in 2026. He was the President of the Spectroscopical Society of Japan in 2018–2020. He was an Associate Editor of Vibrational Spectroscopy in 2020–2025. He received BCSJ Award (2002, 2007, 2009, 2010, and 2013) from the Chemical Society of Japan and Spectroscopical Society of Japan Award “Infrared and Raman studies of polymer semiconductors and conductors” (2016).