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Yasuhisa Mizutani is a Professor in the Department of Chemistry, Graduate School of Science, The University of Osaka, Japan. He earned his B.Eng. and M.Eng. degrees from Kyoto University in 1987 and 1989, respectively, and his Ph.D. from the Graduate University for Advanced Studies in 1992. Following postdoctoral research at the Institute for Molecular Science and the University of Pennsylvania, he joined the Institute for Molecular Science as a research associate in 1994. He became an associate professor at Kobe University in 2001 and a full professor at Osaka University in 2006.

His research focuses on the development and application of time-resolved resonance Raman spectroscopy to understand protein structural dynamics and energetics in relation to biological function. His work encompasses heme proteins and photoreceptive proteins, with particular emphasis on microbial rhodopsins. Through time-resolved anti-Stokes Raman measurements, he has elucidated mechanisms of vibrational energy flow within proteins and is extending this work to the development of protein-based molecular heaters. He also studies ancestral heme proteins and microbial rhodopsins to explore the molecular basis of protein function and evolution.

His honors include the Inoue Research Award for Young Scientists (1995), the Morino Science Award (2001), the Chemical Society of Japan Award for Creative Work (2013), and the Japan Society for Molecular Science Award (2025).