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Jaebum Choo is a Professor in the Department of Chemistry at Chung-Ang University. He obtained a PhD in Molecular Spectroscopy at Texas A&M University in 1994. From 1995-2019, he was a faculty member of Hanyang University. He was a Director of the “Center for Integrated Human Sensing System” (ERC, 2009-2013) and a BK21+ Director of Bionano Fusion Technology Program (2013-2019) supported by National Research Foundation of Korea. Professor Choo became a Baik Nam Distinguished Professor in 2015 due to his excellent academic achievements. He has served as Associate Editor of “Analyst” in Royal Society of Chemistry since 2018. His main research areas are SERS, biosensors, microdevices and molecular spectroscopy. His current research programs are centered on the development of highly sensitive optical nano-sensor systems for rapid and sensitive *in vitro* diagnostics. He has given more than 150 invited lectures in the USA, Europe and Asia, published over 270 research papers in peer-reviewed journals and contributed seven book chapters.