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**Tetsuhide Shimizu** is an associate professor of Faculty of Systems Design, Tokyo Metropolitan University, Tokyo, Japan since April 2020. He is also a visiting scientist at Department of Physics, Chemistry and Biology, Linköping University in Sweden since 2015. His main field of interest is surface engineering of transition metal nitride and oxide coatings, focusing on low temperature growth by high power impulse magnetron sputtering (HiPIMS). In particular, HiPIMS process design based on the understanding of time-transient plasma physics using several plasma diagnostics tools, e.g., time resolved OES and mass-spectrometry studies are in focus. Recently the process development is further extended also for synthesis of metal nano-particles by using hollow cathode sputtering.