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Biography: Dr. Yamamura is a Distinguished Professor at Osaka University and Director of the Center for Precision Engineering at the Graduate School of Engineering. And he is an associate member of CIRP and a fellow of JSPE. His research area is development of unconventional ultraprecision nanomanufacturing method and its application. By using numerically controlled plasma vaporization machining, he succeeded in uniforming the thickness distribution of quartz wafers to less than 2 nm, and contributed to the development of a process for mass-production of the world's smallest quartz crystal units. Furthermore, he invented the plasma-assisted polishing technology, which has succeeded in finishing of difficult-to-polish materials such as GaN and diamond substrates with high efficiency and damage-free.