Prof. Takayuki Ohta

Meijo University, Japan

Education

1998 Shizuoka University, Japan (B.S., Electrical and electric engineering)
2000 Shizuoka University, Japan (M.S., Electrical and electric engineering)
2003 Nagoya University, Japan (Ph.D., Quantum engineering)

Experience

2003- Research associate, faculty of systems engineering, Wakayama university
2009- Associate professor, faculty of systems engineering, Wakayama university
2011- Associate professor, Department of Electrical and Electronic Engineering, Meijo university
2018- Professor, Department of Electrical and Electronic Engineering, Meijo university

Research Area

Plasma application (agriculture, environmental, carbon materials, film coating)
Plasma diagnostics (spectroscopy, interferometry)

Publications

1. R. Furuta et al., Intracellular-molecular changes in plasma-irradiated budding yeast cells studied using multiplex coherent anti-Stokes Raman scattering microscopy, Physical Chemistry Chemical Physics (communication), vol.19, No.21, pp. 13438-13442 (2017)
2. R. Furuta et al., Lipid droplets exhaustion with caspases activation in HeLa cells cultured in plasma-activated medium observed by multiplex coherent anti-Stokes Raman scattering microscopy, Biointerphases, Vol. 12, No. 3, pp. 031006-1- 031006 -8(2017)
3. M. Ito et al., Current status and future prospects of agricultural applications using atmospheric-pressure plasma technologies, Plasma Processes and Polymers, Vol. 15, No. 2, pp. e1700073-1- e1700073-15 (2018)
4. K. Hattori et al., Non contact measurement of substrate temperature by optical low-coherence interferometry in high-power pulsed magnetron sputtering, Japanese Journal of Applied Physics, vol.57, No.1S, pp. 01AC03-1 - 01AC03-5 (2018)