

Plasma/Pulsed Power Lab.

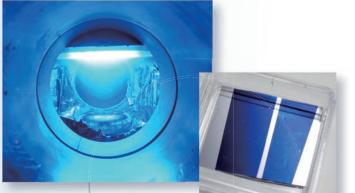
We have studied the funamental characteristics and applications Prof. Koichi Takaki of high voltage pulsed power sytem and plasma discharge. Dr. Katsuyuki Takahashi



High voltage pulsed power system Generating plasma, Ion accelerator Developent of nanosecond pulse generator

Evaluation of SiC devices Application to acceleror

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High density plasma Deposition, Etching

Evaluation of fim propaties Improvemnt of deposition rate Development of high density plasma source Diagnosis of plasma

Plasma in water

Water remediation

Decomposition of organic compounds Development of treatment system

Hydroponic culture

Reduction of infection risk Sterilization Nutrient supply by plasma Pilot trial on farm





Atmoshperic plasma Gas treatment, ion generating

Treatment of exhaust gases (NOx) Removal of ethlylene released by fruits Combined system of catalyst Develoment of electrostatic eliminator

Artificial lightning

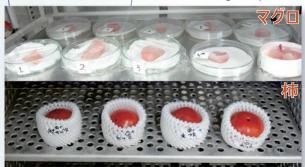
mushroom cultivation

Stimulation for

Improvement of yield

High electric field Keeping freshness of marine and agricultural products

Evaluation of confirmational change of protein





Science events Science events for children Development of educational materials



Plasma & Pulsed Power Sience and Technology