

Journal of Smart Processing

Vol. 9 No. 3 2020 (May 2020)

CONTENTS

プラズマの医療、農業への応用と将来に向けての可能性

S.P.S.Announcement	N7
Preface	Hiroshi KAJIYAMA..... 83
Reviews	
Low Residual and Highly Efficient Plant Pathogen Control Technology Using Atmospheric Pressure Plasma Treated Solutions Toshiro KANEKO and Keisuke TAKASHIMA..... 84	
Study on Cancer Cell Killing by Using Aqueous Solution Treated by Atmospheric Low-temperature Plasma Jet Giichiro UCHIDA, Jun-ichiro IKEDA, Kosuke TAKENAKA and Yuichi SETSUHARA..... 90	
Application of The Surface Ultra-violet Light Source Using Plasma Technology to Medical and Environmental Fields Tsutae SHINODA, Junichiro TAKAHASHI, Kenji AWAMOTO, Tetsuya MAKINO, Hitoshi HIRAKAWA, Takefumi HIDAKA and Masayuki WAKITANI..... 97	
Disinfection Methods for Agricultural Products Using Atmospheric Plasma Yuichiro TAKAI, Terumi NISHIOKA, Tatsuya MISAWA, Yoshihito YAGYU and Akikazu SAKUDO..... 103	
High-voltage and Plasma Applications for Agriculture, Fishery and Food Processing Koichi TAKAKI and Katsuyuki TAKAHASHI..... 108	
Application of Plasma Irradiation Techniques for Agricultural Field and Its Problems Satoshi KITAZAKI..... 116	
Plant Growth Control by Using Pulsed Plasma Light Hiroshi KAJIYAMA, Yuta KIMURA, Masaki TAKEDA, Aimi UEDA, Ayano YONEMURA, Kohei MIWA, Koji TANIKAWA, Atsushi MAEDA and Kazunori MATSUDA..... 122	
General Thesis	
Corrosion Behavior of Nickel-based Brazing Filler Metal for Stainless Steel Heat Exchanger Yusuke FUKAI, Ikuo SHOJII, Tatsuya KOBAYASHI, Tetsuya ANDO, Takuya YOSHIDA, Tsuyoshi KASHIWASE and Noboru OTOMO..... 127	
Effect of Addition of Trace Ni and Ge into Sn-Sb-Ag High Temperature Lead-free Solder Alloy on its Mechanical Properties Kohei MITSUI, Ikuo SHOJII, Tatsuya KOBAYASHI and Hirohiko WATANABE..... 133	
Application of Duplex Current Feeding Metal Inert Gas Welding to Overlay Welding Using Nickel Based Alloy Welding Atsuhito AOKI, Shinichi TASHIRO, Hideaki KUROKAWA and Manabu TANAKA..... 140	
Influence of Thermodynamic and Transport Properties of Gas on Heat Load to Bulb of Xenon Short Arc Lamp Shiro MAENAKA, Shinichi TASHIRO, Anthony B. MURPHY, Kazunori FUJITA and Manabu TANAKA..... 148	
S.P.S.News	N8