

3rd International Symposium of the Vacuum Society of the Philippines (ISVSP 2020)

Poster Session 1 (08 January 2020, 15h00-17h00)		
3	Hiro Mikage, Michihiro Kitagawa and Motoi Wada	Development of a magnetic quadrupole lens for low energy heavy ion beam transport
5	Keita Bito, Masaki Ishikawa and Motoi Wada	Effect of Plasma Electrode Materials on Extracted H ⁻ and Electron Current from the Bernas Type Ion Source
6	Rei Namiya, Takeshi Sakamoto and Motoi Wada	Aluminum Nitride Deposition by a Plasma Sputter Type Ion
7	Tatsuhiko Tokai, Yuji Shimabukuro, Keita Bito, Fumiya Ikemoto and Motoi Wada	Investigation on proton ratios when a small amount of inert gases in hydrogen plasma
8	Kunpei Sato, Takahito Arai, Motoi Wada and Toshiro Kasuya	Investigation of a Space Potential Interference by the Plasma Flood Gun
9	Shintaro Tanabe, Takeshi Sakamoto, Toshiro Kasuya and Motoi Wada	Aluminum Nitride Ion Production by Mixed Gas Plasma with Al Sputter Target
10	Karl Khumo Calagan, Giancarlo Dominador Sanglay, Laika Jayne Montefalcon and Vince Roi Alvarez	Surface Modification and Dyeability Enhancement of Jute Fibers by Ambient Air Plasma Treatment
14	Noor Anne Buenaflor, Nikka Quejano, Geraldine Escano and Kathrina Lois Taaca	RF Plasma Treatment of Bamboo Leaf Ash-Derived Forsterite
17	Regina Mae Bulaong, Mihoko Angela Artieda, Ryan Russel Gabatino and Kristine Diane Rubio	Effect of Treatment Duration of Atmospheric Pressure Plasma on the Surface Properties of Kawayan Tinik (<i>Bambusa Blumeana</i>)
18	Xavier Dumaguing, Diosa Bernadette Retig, Jason Pechardo, Jill Manapat and Joefreim Delicano	Effect of Surface Treatment on the Joint Strength of Co-cured HDPE- and Epoxy- based Fiber Reinforced Plastics
19	Hannah Cartojano, Elijah Buenafe, Ryan Oliver Regis and Mark Andrew Tabucanon	Synthesis of Copper Zinc Tin Sulfide as a Photoabsorber Layer on Polyimide Substrate for Solar Cell Applications
24	Yoshiyuki Matsui, Toshiro Kasuya and Motoi Wada	Investigation of Sheet Plasma Thickness Produced by Plasma Cathode
25	Shota Takara, Masumi Kobayashi, Masaki Ishikawa, Toshiro Kasuya and Motoi Wada	Negative Hydrogen Ion Source Operation with Lanthanum Tungsten Hot Cathode
29	Kyla Marhee Puzon, Lora Jose Hernandez, Lucky Kristine De Castro, Sally Joy Gano and Ivy Ann Razonado	Wettability, UV absorbance and antibacterial properties of in- situ synthesized Zinc Oxide on Cotton Fabric
31	Cidne Danielle Carles, Andrea Jannina Fernandez and Mary Raphael Ramoy	Surface Modification of Canvas Cloth Using Atmospheric Pressure Plasma Jet
33	Mark Jeffry De Leon and Magdaleno Jr. Vasquez	Development of a Cold Atmospheric Pressure Plasma Jet for Surface Treatment Applications
39	Jose Gabriel Abalos, Jarl Tynan Collado, Rafael Alexander Carreon, Giana Mae Nuncio, Christian Lorenz Mahinay and Ivan Culaba	Analysis of plasma activated water via atmospheric pressure plasma jet
40	Yusuke Kamishiraki, Hajime Aki, Naoki Miyamoto, Toshiro Kasuya and Motoi Wada	Change in Extracted Ion Beam Characteristics due to Filament Shape of a Hot Cathode Type Ion Source

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Poster Session 2 (10 January 2020, 14h00-16h00)		
44	Allen Vincent Catapang, Aliena Mari Miranda, Marlo Nicole Gilos, Oliver Kevin Streeter, Magdaleno Jr. Vasquez and Motoi Wada	Comparison of ZnO film deposition process prepared by RF and DC reactive magnetron sputtering using water vapor plasma
48	Oliver Kevin Streeter, Allen Vincent Catapang, Aliena Mari Miranda, James Edward Hernandez, Marlo Nicole Gilos and Motoi Wada	Design of a High-Power Impulse System for DC Reactive Magnetron Sputtering Application
49	Keith Neelson Penado, Arnold Rey Gines and Motoi Wada	Observation of drift wave instability in magnetized sheet plasma
50	Rogel Jan Butalid, Arantxa Danielle Montallana, Anna Patricia Cristobal and Magdaleno Jr. Vasquez	Stability of Titanium Dioxide-coated Zinc Oxide thin films for Photodegradation of Methylene Blue
51	Joven Paolo Angeles, Kenneth Duque, Ariel Jorge Payot and Marienette Vega	Synthesis of Nitrogen-Doped Graphene Oxide using RF Plasma Treatment
52	Joseph Victor Fronda and Giovanni Malapit	A Simulation of a Hypothetical Atmospheric Pressure Plasma System with the Drift – Diffusion Fluid Model
53	Hofileña and Arias	Surface Hydrophobization of Chitosan Thin Films by Hexamethyldisiloxane (HMDSO) Plasma Treatment for Antibiofouling Applications
54	Janus Dale Mitra, Ronan Baculi and Giovanni Malapit	Adhesion Analysis of Silver Nanoparticles on Pure Cotton Textiles
55	Rey Benedict Villacillo, Giovanni Malapit and Ofelia Giron	Investigation of Physico-chemical and Flame Retardant Property of Boric Acid Under Nitrogen-based Gliding Arc
57	James Nicolas Pagaduan, Rozen Grace Madera and Magdaleno Jr Vasquez	RF Plasma Treatment of n-ZnO Thin Films Deposited on p-Si Substrate via Hydrothermal Technique
60	Russel Paul Calubaquib and Giovanni Malapit	Fungicidal Efficiency of Cold-Plasma Activated Water via Pin to Plate Discharge Against <i>Trichosporon Jirovecii</i>
64	Fatima Jenina Arellano, Eleanor Olegario and Magdaleno Vasquez	Characterization of an Ar/HMDSO RF Plasma Modified Philippine Natural Zeolite
65	Marc Justin Lauzon, Eleanor Olegario and Magdaleno Vasquez	Removal of Volatile Organic Compound (VOC) from Natural Rubber Utilizing Combined Plate Tower Scrubber and Adsorption Technique with Hydrophobic Natural Zeolite
66	Hana Taguchi, Giovanni Malapit and Patrick Penales	Sterilization Efficacy of Argon and Nitrogen Against Escherichia coli via Atmospheric Pressure Plasma Jet
68	Gil Felicisimo Cabrera, Michelle Celebrado, Archel Escaro and Marienette Vega	Synthesis and Characterization of ZnO Nanoarrays on Carbon cloth substrate for Supercapacitor Applications
74	Izobelle Echaluse and Christian Lorenz Mahinay	Atmospheric Pressure Plasma Jet Treatment of Polytetrafluoroethylene for Surface Modification
75	Krystel Iris de Castro, Jenica Rozette Uy, Aren Renz Centeno, and Christian Lorenz Mahinay	Plasma emission spectra at different reactive sputtering conditions of Al target
76	Catherine Joy M. Dela Cruz, Glenson R. Panghulan, Magdaleno R. Vasquez, Jr.	Effect of substrate bias on the morphology of titanium nitride film synthesized using magnetized sheet plasma system