



### Best Oral Paper Award

#### OA-03

##### The Charging of Photoconductors in Print Engines by Microplasmas

Jun-Chieh Wang<sup>1</sup>, Seongsik Chang<sup>2</sup>, Napoleon Leoni<sup>2</sup>, Henryk Birecki<sup>2</sup>, Michael Lee<sup>2</sup>, Tom Anthony<sup>2</sup>, Omer Gila<sup>2</sup> and Mark J. Kushner<sup>1</sup>

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<sup>2</sup> Hewlett Packard Labs, Palo Alto, USA

#### OA-04

##### Study of the Collection Efficiency of Multipoint-to-Plane Electrostatic Precipitators

THI-CUC LE, BING-TSAI WANG, THI-MINH-PHUONG TRAN, CHUEN-JINN TSAI\*

*Institute of Environmental Engineering, National Chiao Tung University, Taiwan*

#### OA-05

##### Numerical Simulation of Decomposition of Acetic Acid in Water by Argon Pulsed Plasma

NOZOMI TAKEUCHI

*Department of Electrical and Electronic Engineering, Tokyo Institute of Technology, Japan*

#### OA-09

##### One-step Atmospheric Pressure Plasma Synthesized Polyethylene Embedded with Tunable Amount of Lysozyme

Y.-W. YANG<sup>1</sup>, G. CAMPOREALE<sup>2</sup>, E. SARDELLA<sup>3</sup>, G. DILECCE<sup>3</sup>, F. PALUMBO<sup>3</sup>, P. FAVIA<sup>2,3</sup> J.-S. WU<sup>1\*</sup>

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<sup>3</sup>Istituto di Metodologie Inorganiche e dei Plasmi, CNR, Italy

#### OA-10

##### A Flexible Paper-Based Microdischarge Array Device for Maskless Patterning on Nonflat Surfaces

Yao-jhen Yang, Meng-yu Tsai, Wei-chieh Liang, Hsien-yeh Chen, and Cheng-che Hsu\*

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**Best Poster Paper Award**

**PA-01**

**Sterilization of *Escherichia coli* in Water using Atmospheric Air Plasma**

H.Kato, K. Yasuoka

*Department of Electrical and Electronic Engineering, Tokyo Institute of Technology, Japan*

**PA-02**

**The inactivation of a homemade atmospheric pressure needle plasma in root canal prosthesis infected with *Escherichia coli* and *Enterococcus faecalis***

CHUN-HAO FU, HSIANG-I MEI, SHIANG-YAU LO, HAN-LUN CHANG, MING-CHEN WANG

*Department of Biomedical Engineering, Chung Yuan Christian University, Taiwan*

**PA-05**

**UV Emission Enhancement of a Nitrogen-Based Atmospheric-Pressure Planar Dielectric Barrier Discharge Jet with Shorter Electrodes**

K.-Y. CHENG, G.-C. LIAO, Y.-W. YANG, J.-S. WU \*

*Department of Mechanical Engineering, National Chiao Tung University, Taiwan*

**PA-07**

**High Removal Rate of CF<sub>4</sub> Using DC Plasma within Bubbles and Trapping of Fluorine**

YURIKO MATSUJYA<sup>1</sup>, KOSUKE TACHIBANA<sup>1</sup>, RYOTA SUGANUMA<sup>1</sup>, KOICHI YASUOKA<sup>1</sup>, and KATSUMASA SUZUKI<sup>2</sup>

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**PA-08**

**Observation of Underwater Discharge Phenomena Using a Laser Schlieren Technique**

YASUHIRO MIHARA<sup>1</sup>, SHUICHI AKAMINE<sup>1</sup>, RYUTA ICHIKI<sup>1</sup>, TAKEHIKO SATO<sup>2</sup>, SEIJI KANAZAWA<sup>1</sup>

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**PA-09**

**Improvement of Efficiency in Decomposition of High-Concentrated Organic Compounds by Advanced Oxidation Process Using Plasmas**

T. Ishiguro<sup>1</sup>, K. Yasuoka<sup>2</sup>

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