

20th INTERNATIONAL
VACUUM
CONGRESS

IVC-20



IVC-20
ICSS-16
ICN+T 2016
VASSCAA-8
25th KVS
ITC 2016
ISPB 2016

AUGUST 21-26, 2016
BUSAN, KOREA

PROGRAM

IVC-20
20th International Vacuum Congress

ICSS-16
16th International Conference
on Solid Surfaces

ICN+T 2016
International Conference on
Nanoscience and Technology 2016

VASSCAA-8
8th Vacuum and Surface Sciences
Conference of Asia and Australia

25th KVS
25th Anniversary KVS Symposium

ITC 2016
Industrial Topical Conference 2016

ISPB 2016
International Symposium of Plasma
Biosciences 2016

Organized by



THE KOREAN
VACUUM SOCIETY

AUGUST 23 (TUESDAY)

■ ICN+T 2016 ■ VASSCAA-8 ■ 25th KVS ■ ITC 2016 ■ ISPB 2016

NS-P1-168

Three transition regions observed from single crystalline Bi-rich Bi_2Te_3 nanobelts
Sunghun LEE (*Sogang University, Korea*), Juneho IN, Jihwan KIM, Yun Chang PARK, Jinhee KIM,
Bongsoo KIM, Myung-Hwa JUNG

NS-P1-169

Process integration of Ion Sensitive Field Effect Transistor (ISFET) based pH sensor
Taemin HA (*Myongji University, Korea*), Wooje LEE, Sang Jeen HONG

NS-P1-170

Activation energy and carrier dynamics of multilayer CdTe/ZnTe quantum dots
Kee Hong LIM (*Yonsei University, Korea*), Sung Hwan JIN, Jin Chul CHOI, Sang-Youp YIM, Hong Seok LEE

NS-P1-171

Highly sensitive, highly selective Cu^{2+} ion detectable film type fluorescence sensor
Wang-Eun LEE, Ji-Seon CHOI, Giseop KWAK, Chang-Lyoul LEE (*Gwangju Institute of Science and Technology, Korea*)

NS-P1-172

Edge structures of triangular MoS_2 nanoclusters
Junga RYOU (*Korea Research Institute of Standards and Science, Korea*), Yong-Sung KIM

NS-P1-173

Systematic analysis of graphene oxide composite membranes for desalination system
Hyun KIM (*Kumoh National Institute of Technology, Korea*), Vivek RAMAKRISHNAN, Bee Lyong YANG

16:30-18:00

EXHIBITION HALL 2A

PST-P1 ■ ■

PLASMA SCIENCE AND TECHNIQUE (JOINT WITH PBM) / POSTER SESSION 1

PST-P1-174

Characteristics of direct plasma jet impinging above water surface and temporal behavior of OH and NO radicals
Bhagirath GHIMIRE (*Kwangwoon University, Korea*), Jirapong SORNSAKDANUPHAP,
Young June HONG, Eun Ha CHOI

PST-P1-175

Macrophage M1/M2 regulation by plasma activated NO-WATER
C B LEE (*Kwangwoon University, Korea*), M H KANG, S S JEON, H S UHM, K U BAIK

PST-P1-176

Hyperthermia and magnetic properties of $\text{Ni}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ nanoparticles on bio-plasma treatment
Hyunkyoung CHOI, Sunghyun YOON, Chul Sung KIM (*Kookmin University, Korea*)

PST-P1-177

Biological effects of reactive oxygen nitrogen species generated by atmospheric pressure plasma jet
Hea Min JOH (*Dong-A University, Korea*), Ji Ye CHOI, Sun Ja KIM, Tae-Hong KANG, Tae Hun CHUNG

PST-P1-178

Measurement of NO_2 radical density of plasma jet by CEAS
Jiho AHN (*Kwangwoon University, Korea*), Young June HONG, Eun Ha CHOI

PST-P1-179

The efficacy of portable plasma jet with water spraying for tooth whitening
Myung-Jin LEE (*Yonsei University College of Dentistry, Korea*), Won-Seok JEONG, Su-Hyuk UHM,
Jae-Sung KWON, Eun Ha CHOI, Kyoung-Nam KIM, Kwang-Mahn KIM

PST-P1-180

Feeding gas determines the plasma induced hemoglobin oxidation
Se Hoon KI (*Kwangwoon University, Korea*), Han Sup UHM, Jae Ho SIN, Somin SIN, Ku Youn BAIK,
Eun Ha CHOI

PST-P1-181

Comparison of features of non-thermal atmospheric pressure biocompatible plasma (NBP) and NO water as plasma activated material (PAM) on cervical cancer cells
Ying LI (*Kwangwoon University, Korea*), Min Ho KANG, Han Sup UHM, Eun Ha CHOI, Ihn HAN