

**Session Program**

**17-22 Jun 2018**



**15th European Vacuum Conference (EVC-15)**

***Poster Session Wednesday***

## Wednesday 20 June

16:50

### Poster Session Wednesday

Poster Session | Location: CIG, Main Lobby

**High performance organic single-crystal nanowire electronics via modulate the intermolecular center-to-center distance**

**Speaker**

YoonKyoung Park

**Controlled electronic properties of graphene via atomic layer deposition**

**Speaker**

Lynn Lee

**In-situ TEM investigation of amorphous Cu-Mn/C films for interconnect application**

**Speaker**

Mrs Klára Hajagos-Nagy

**Field emission induced lower switching power of TiO<sub>2</sub> memristor using CNT-array as bottom electrode**

**Speaker**

Prof. Alireza Moshfegh

**NEG coatings on small diameter vacuum chambers for Hefei Advanced Light Source**

**Speaker**

Sihui Wang

**Low-temperature atmospheric microwave plasma using two-parallel-wires transmission line resonator**

**Speaker**

Dr JUN CHOI

**Functionalization of organosilicate thin films by catalytic reaction using Microwave-excited Plasma**

**Speaker**

Dr Suhan Kim

**Solution immersed silicon (SIS)-based biosensors for the direct monitoring of small-molecular-weight analytes**

**Speaker**

Dr Hyun Mo Cho

**Clarification of the relationship between electrical properties and the columnar structure of sputtered Al-doped zinc oxide films**

**Speaker**

Petr Novák

**Measuring uncertainty for various types of dual-rotating-compensator spectroscopic ellipsometers**

**Speaker**

Dr Yong Jai Cho

**Development of highly repeatable and recoverable phototransistors based on multi-functional oxide channels****Speaker**

Dr Cheol Hyoun Ahn

**Effects of substrate materials on boron and gallium co-doped ZnO films by RF magnetron sputtering****Speaker**

Ke Tang

**Properties of CdZnTe films deposited on polyimide substrates by close-spaced sublimation****Speaker**

Dr Jian Huang

**Synthesis of ZnFe<sub>2</sub>O<sub>4</sub>/BiOBr nanocomposites immobilized on Palygorskite with enhanced photocatalytic activity under solar light irradiation****Speaker**

Prof. Lili Zhang

**Solid Solution Hardening of Reactively Sputtered Nanolaminate ZrN-TiN Coatings****Speaker**

Jolanta Sapiuha

**Room temperature magnetron sputtering of InGaZnO and ZTO amorphous oxide semiconductors****Speaker**

Lucie Prusakova

**Self-supporting Porous Pt-Ag Aerogel as Highly Bifunctional Active Electrocatalysts for Oxygen reduction and Methanol oxidation****Speaker**

Prof. Juan Yang

**The Bamboo Leaf-like NiCo<sub>2</sub>O<sub>4</sub> nanobelts with Surface Pore Defects Supported on rGO as Advanced Anode Material for Lithium Ion Batteries****Speaker**

Prof. Yongsheng Fu

**Ultrathin molybdenum disulfide/carbon nitride nanosheets with abundant active sites for enhanced hydrogen evolution****Speaker**

Prof. Junwu Zhu

**Cobaltic oxide nanocrystals with exposed low-surface-energy planes anchored on chemically integrated graphitic carbon nitride-modified nitrogen-doped graphene: a high-performance anode material for lithium-ion batteries****Speaker**

Prof. Xin Wang

**Monte Carlo study on magnetic properties in ferrimagnetic Ising thin films**

**Speaker**

Prof. Rachid Masrouf

**Improving plasma uniformity using superimposed multi-frequency of an inductively-coupled plasma source****Speaker**

Mr Younghun Choi

**Effect of Methane Addition and Process Temperature on the Hardened Case Properties by Plasma Nitrocarburizing on DIN 100Cr6 Steel****Speaker**

Prof. Pedro Nascente

**Nanotopographic microdomains on Ti alloys by sequential ion beam irradiation and wet etching****Speaker**

Dr Miguel Manso Silvan

**The Nothing On Insulator Nanotransistor with Diamond Lateral Islands for Electrons Emission in Vacuum****Speaker**

Mr Alexandru Topor

**Highly Conductive, Stretchable, Flexible Transparent Electrodes on Bio-polymer Substrates for Stretchable Electronics****Speaker**

Mr Zeno Rizqi Ramadhan

**Stretchable Transparent Electrodes Based on Silver Nanowires and Conductive Polymers for Stretchable Electronics****Speaker**

Ms Siti Aisyah Nurmaulia Entifar

**Diamond-like carbon film with excellent tribomechanical properties deposited by PACVD****Speaker**

Mr Chao-Qian Guo

**Characterization of Cu nanoparticles via X-ray photoelectron spectroscopy in combination with SESSA calculations****Speaker**

Dr Markus Sauer

**Effect of oxidation time on ZnO nanostructures prepared from Zn films by electro-oxidation****Speaker**

Wooseong Jeon

**LASE surfaces for the mitigation of the Electron cloud in positively charged accelerators****Speaker**

taaj sian

**Compact getter pump with arc evaporator of Titanium**

**Speaker**  
Aigerim Bainazarova

**Atomic layer deposition of titanium oxide using cyclopentadienyl-type titanium precursors**

**Speaker**  
Prof. Won-Jun LEE

**Amorphous Carbon Coatings for Vacuum Chambers of Particle Accelerators and Research on Secondary Electron Yield**

**Speaker**  
Yong Wang

**Growth of Ti-Zr-V non-evaporable getter films on ion-implanted substrate**

**Speaker**  
Ling-Hui Wu

**A novel growth method for ZnO nanorods by hydrothermal method applied rotating precursor solution**

**Speaker**  
Mr Dongwan Kim

**Calculation of activation temperature of TiZrV getter film**

**Speaker**  
Dr Bo Zhang

**A unique QLED-OLED hybrid structure for white electroluminescent devices**

**Speaker**  
Ms So Eun Ju

**Effects of Composition Ratios and Microstructure on Mechanical and Electrical Properties of AZO - Zincone Nanolaminates Using Atomic and Molecular Layer Depositions**

**Speaker**  
Mr Seung Hak Song

**XPS study of the front/back interfaces in Kesterite photovoltaic devices**

**Speaker**  
Dr Lorenzo Calvo-Barrio

**Formation and structure of TiN/ZrN multilayer coatings deposited on tool steel**

**Speaker**  
Prof. Petar Petrov

**Structure and properties of TiO<sub>2</sub>/TiN deposited on EBM modified stainless steel**

**Speaker**  
Mr Stefan Valkov

**Epitaxial growth of CuInSe<sub>2</sub>/InSe/Si heterostructures for photovoltaic applications**

**Speaker**  
Prof. Bae-Heng Tseng

**Effect of Growth Temperature on the Structure of CoCrFeNiCu High Entropy Alloy Films**

**Speaker**  
Prof. György Radnóczy

**Stabilisation of tetragonal ZrO<sub>2</sub> by oxygen plasma treatment of sputtered ZrCu and ZrAl thin films**

**Speaker**  
Dr Janez Kovac

**Evaluation of Mechanical Properties of Transparent AZO(Aluminum-doped Zinc Oxide)-zincone Hybrid Multilayer Thin Films Grown on a Transparent Polyimide Substrate by Atomic and Molecular Layer Depositions**

**Speaker**  
Mr Sungtae Hwang

**Microwave-excited Microplasma Arrays in Atmospheric Air by Coplanar Waveguide Resonator**

**Speaker**  
Dr JUN CHOI

**Synthesis of 2D MoS<sub>2</sub> for flexible gas sensor at low temperature**

**Speaker**  
Youngjun Kim

**XPS study of the front/back interfaces in Kesterite photovoltaic devices**

**Speaker**  
Lorenzo Calvo Barrio

18:40