

**Wednesday Afternoon Poster Sessions****22 November, 2017****(Time: 13:00 p.m. - 14:00 p.m.)****Room: Robby****(Chairman : Prof. InJoon Son, Prof. Kiyoung Lee)**

<b>No.</b>	<b>PaperTitle</b>	<b>Presenting Author</b>	<b>Affiliation</b>
PS-1	Evaluation on Sensitization of Stainless Steel 304 Steel by Artificial Aging and DL-EPR Test	Min-Su Han	Mokpo Maritime University
PS-2	Enhancement of Cavitation-Erosion Resistance in Marine Environment for Austenitic Stainless Steel by the DC Glow Discharge	Jung-Hyung Lee	Mokpo Maritime University
PS-3	The Effect of Gaseous Nitriding Phases Controlled with Customized Lehrer Diagram of AISI 4140 to Enhance the Fatigue Resistance of the Steel	Sunkwang kim	Korea Institute of Industrial Technology (KITECH)
PS-4	Microstructure and Oxidation Behavior of Nanostructured Ti-Si-B-C-N Films Deposited by Unbalanced Magnetron Sputtering	Hyundong Kim	Korea Institute of Industrial Technology (KITECH)
PS-5	Mechanical and Tribological Properties of Ti-Si-B-C-N Nanocomposite Coatings Deposited by Pulsed Unbalanced Magnetron Sputtering	Sungbo Heo	Korea Institute of Industrial Technology (KITECH)
PS-6	Effect of plasma treatment on surface properties of 2D tungsten diselenide	Sungwon Lee	Sungkyunkwan University
PS-7	Characteristics of BDD electrodes deposited on Ti substrate with TiN <sub>x</sub> interlayer	Shin Kim	Pusan National University
PS-8	The Influence of Natural Oxide Layer of Strain-hardened Austenitic stainless steel on the Low-Temperature Acetylene Based Vacuum Carburizing Process	Yeongha Song	Korea Institute of Industrial Technology
PS-9	Reactive sputtered tin adhesion layer for wastewater treatment for bdd electrodes	SeoHan Kim	Pusan National University
PS-10	Carbon black and titanium interlayers between zinc oxide photoelectrode and FTO for dye – sensitized solar cells	SuYoung Lee	Korea University of Technology and Education
PS-11	Electrochemical Corrosion resistance of aluminum-doped zinc oxide film depending on the hydrogen content	SooHo Cho	Korea University of Technology and Education

PS-12	Silicon nitride encapsulation for OLED devices by very high frequency PECVD using a multi-split electrodes	GeunYoung Yeom	Sungkyunkwan University
PS-13	Thick Tetrahedral Amorphous Carbon Films Prepared by Filtered Cathodic Vacuum Arc Method	Yongqing Shen	Beijing Normal University
PS-14	Study for Control of Microstructural Characteristics of Biomedical Ti-39Nb-6Zr-0.45Al	YangKyun Park	Sunchon National University
PS-15	Effect of Al Addition on Corrosion Protection of Ti-39Nb-6Zr Alloy for Biological Applications	Yujin Hwang	Sunchon National University
PS-16	SBF evaluation of HA precipitation on Ti-6Al-4V	Sang-Gyu Lim	Chosun University
PS-17	Morpholgy of PEO-treated Surface on Ti-6Al-4V after nanotube Formation	Sang-Gyu Lim	Chosun University
PS-18	Morpholgy of Bone Formation on PEO-treated on Ti-6Al-4V on Solution Containing Function Element	Sang-Gyu Lim	Chosun University
PS-19	Bone-like Apatite Formation on PEO-treated Ti-6Al-4V in Solution Containing Mn, Mg, and Si Ions after Plasma Electrolytic Oxidation	Sang-Gyu Lim	Chosun University
PS-20	Electrochemical Charterisitics of PEO Surface Formed in Solution Containing Mn, Mg and Si ions	Sang-Gyu Lim	Chosun University
PS-21	Study on Improvement of Interface Properties in Al <sub>2</sub> O <sub>3</sub> /Si Structure Using SiO <sub>2</sub> Buffer Layers	Jaeyoung Choi	Dankook University
PS-22	Morphology after Nanotube Formation on Ti-6Al-4V Alloys by Several Steps	Ji-Min Yu	Chosun University
PS-23	Corrosion Characteristics of Ca, P, Sr, and Si Ions from PEO-treated Ti-6Al-4V Alloy Surface	Ji-Min Yu	Chosun University
PS-24	Electrodeposition of Ga from GaCl <sub>3</sub> in DMSO bath and influence of NH <sub>4</sub> NO <sub>3</sub>	Jaewook Kang	Nagoya University
PS-25	Electrochemical behavior of Li, Mg or Al in polar organic solvents of Dimethylsulfone groups	Sangjae Kim	Nagoya University
PS-26	Effect of NaOH concentration on PEO film formation of AZ31 magnesium alloy in an aqueous electrolyte containing carbonate and	Yeajin Kim	Korea Institute of Materials Science

	silicate ions		
PS-27	Effect of Electrolyte Composition on The Formation Behavior of Plasma Electrolytic Oxidation Films on Al1050 Alloy	Juseok Kim	Korea Institute of Materials Science
PS-28	Electrochemical Characteristics of Functional Hydroxyapatite Coatings on the Ti-6Al-4V Alloys	Min-Gyu Park	Chosun University
PS-29	Cyclic Surface Modification on Ti-6Al-4V Alloy Using Plasma Electrolytic Oxidation after Nanotube Formation Electrochemical Methods	Min-Gyu Park	Chosun University
PS-30	Electrochemical Characteristics of Bioactive Element Coatings on PEO-treated Ti-6Al-4V Alloy	Min-Gyu Park	Chosun University
PS-31	Corrosion Behaviors of Zn, Si, Mn-doped Hydroxyapatite Films Formed on the Ti-6Al-4V Alloy by Plasma Electrolytic Oxidation	Min-Gyu Park	Chosun University
PS-32	Si-Zn-Mn-hydroxyapatite Coating on Ti-6Al-4V Alloy by Plasma Electrolytic Oxidation	Min-Gyu Park	Chosun University
PS-33	Cell Culture on the Hydroxyapatite Coatings by Plasma Electrolytic Oxidation	Ji-Min Yu	Chosun University
PS-34	Corrosion Behavior of RF-sputtered Zn and Si Coatings on PEO-treated Ti-6Al-4V	InJo Hwang	Chosun University
PS-35	Bone Formation Behaviors of Sr-Si-HA Surface on Ti-6Al-4V after Plasma Electrolytic Oxidation Treatments	Ji-Min Yu	Chosun University
PS-36	HA Precipitates Coating Functional Elements on the Ti-6Al-4V Alloy by Electrochemical Methods	Ji-Min Yu	Chosun University
PS-37	HA Coatings Containing Functional Material on the PEO-treated Ti-6Al-4V Alloy	Seung-Pyo Kim	Chosun University
PS-38	Characteristic of Electrochemically Doped Non-Noble metal TiO <sub>2</sub> Nano-Tube for Chlorine Evolution Reaction(CER)	YooSei Park	Korea Institute of Materials Science
PS-39	Effects of Electrical Parameters on the Surface Characteristics of Pulse Plasma Electrolytic Oxidation on Aluminum Alloy	Jung-Hyung Lee	Mokpo Maritime University

**Thursday Afternoon Poster Sessions****23 November, 2017****(Time: 13:00 p.m. - 14:00 p.m.)****Room: Robby****(Chairman : Dr. Jong-Kuk Kim, Prof. InJoon Son, Prof. Kiyoung Lee)**

<b>No.</b>	<b>PaperTitle</b>	<b>Presenting Author</b>	<b>Affiliation</b>
PS-40	Hydrophobic and electromagnetic interference surface using multi-wall carbon nanotube and inorganic binder	Juyoung Kim	Korea Institute of Industrial Technology
PS-41	Biomechanical Stability of TiN and DLC coated Rod for Pedicle Screw System	Kwan-Su Kang	OSONG Medical Innovation Foundation
PS-42	High-temperature Oxidation of Aluminum Hot-Dipped 2.25%Cr-1%Mo Steel	DongBok Lee	Sungkyunkwan University
PS-43	High-temperature Corrosion of CrAlSiN thin film in N <sub>2</sub> /0.1%H <sub>2</sub> S-mixed Gas	DongBok Lee	Sungkyunkwan University
PS-44	Synthesis of Silver Nano-particles Using Pulse Electrolysis in Ionic Liquids	Churl Kyoung Lee	Kumoh National Institute of Technology
PS-45	Protection of lacquer surface from UV irradiation using TiO <sub>2</sub> /SiO <sub>2</sub> composite photocatalyst	Takahiro Adachi	Tokyo University of Science
PS-46	Development of Flow Type Polysaccharide Sensor Using TiO <sub>2</sub> Ink	Kensuke Katagishi	Tokyo University of Science
PS-47	Characterizations of Cr-P-PTFE Composite Coatings Electroplated from a Trivalent Chromium-Based Bath	SunKyo Seo	Yulim T&C Co.,LTD
PS-48	Effect of ultrasonic on morphology and hardness of Ni-P-Al <sub>2</sub> O <sub>3</sub> electroless composite coatings.	Young-Min Byoun	Korea Conformity Laboratories(KCL)
PS-49	Enhancing the Capacity of Nanoporous Anodic TiO <sub>2</sub> -TiO-TiN Composite Films on Ti as Anode Materials for High-Safety Lithium-ion Battery	Song-Zhu Kure-Chu	Nagoya Institute of Technology
PS-50	Electroless Sn Deposition on Copper from Choline Chloride-based Deep Eutectic Solvent	Chieon Park	Korea Institute of Industrial Technology
PS-51	Effect of Etching Temperature on Adhesion and Surface Morphology of Acrylonitrile-Butadiene-Styrene (ABS) Based Material for Plating	Sehun Han	Kyungpook National University
PS-52	The effects of organic additives on the via filling performance in high-aspect-ratio through silicon	Sanghoon Jin	Korea Institute of Industrial Technology

	via		(KITECH)
PS-53	Effect of Nano- $\text{Al}_2\text{O}_3$ Additive on Manganese Phosphate Composite Conversion Coating of Carbon Steel	Young-Tai Noh	Korea Conformity Laboratories (KCL)
PS-54	Ultrathin Silver Telluride Nanowire Films for Flexible Resistive Switching Device	HoJun Seo	Korea Institute of Industrial Technology (KITECH)

## Friday Afternoon Poster Sessions

24 November, 2017

(Time: 13:00 p.m. - 14:00 p.m.)

Room: Robby

(Chairman : Prof. InJoon Son, Prof. Kiyoung Lee)

No.	PaperTitle	Presenting Author	Affiliation
PS-55	The effects of internal stress of nickel electrodeposits on the hydrogen evolution reaction	Sung-Min Kim	Korea Institute of Industrial Technology (KITECH)
PS-56	Facile Synthesis of Solvent Casted Arabic Gum Coated Carbonyl Iron Microspheres and Their Magnetorheological Characteristics	SeungHyuk Kwon	Inha University
PS-57	Effect of electrolytic factors on the color tone of anodized aluminum film	InCheul Choi	Kyungpook National University
PS-58	Electrochemical Nanopattern Formation on Ti Surface: Comparison with TiO <sub>2</sub> nanotube surfaces in vitro bioactivity	Doohun Kim	Korea Electrotechnology Research Institute
PS-59	Anodic Formation of Self-Organized Aluminium Alloy Oxide Nanoporous Layers	Jaewon Lee	Kyungpook National University
PS-60	Fabrication of Free-Standing Open-Ended Large Diameter TiO <sub>2</sub> Nanotube Membranes	HyeonKwon Lee	Kyungpook National University
PS-61	Thermodynamic Calculation of Surface Tension of Liquid High Carbon Steels	Jongbae Jeon	Korea Institute of Industrial Technology (KITECH)
PS-62	Synthesis and Characterization of Nici Nanofiber for Hydrogen Evolution Reaction	JeongHun Lee	Korea Institute of Materials Science
PS-63	Influence of Coating Amount on Chlorine Evolution using RuO <sub>2</sub> -PdO-TiO <sub>2</sub> Electrodes	Dajung Park	Korea Institute of Materials Science
PS-64	Fabrication of Gelatin/PVA scaffold with aligned topological cues for Cardiac Tissue Regeneration	YoungWon Koo	Sungkyunkwan University
PS-65	Fabrication of 3D bioceramic/natural polymer biocomposite using low temperature 3D printing system for bone tissue regeneration	JiUn Lee	Sungkyunkwan University
PS-66	Fabrication of biomimetic 3D model with gelatin and bioceramic using multi nozzle 3D printing system for bone tissue regeneration	WonJin Kim	Sungkyunkwan University

PS-67	Fabrication of $\alpha$ -TCP/Cellulose 3D Fibrous Scaffold and Cellular Activities for Bone Tissue Regeneration	JaeYoon Lee	Sungkyunkwan University
PS-68	Gelatin/PVA 3D Scaffold Fabricated Using Low Temperature Bio-Printing for Hard Tissue Regeneration	Minseong Kim	Sungkyunkwan University
PS-69	Evaluation of corrosion resistance for anodized Al Alloy with applying electric charge	Seung-Jun Lee	Kunsan National University
PS-70	Surface Modification of Di-Electric Material using Photo Pretreatment for FOWLP	Jong-Young Park	Kanto Gakuin University
PS-71	Improvement of Corrosion resistance by Ca and Y addition in magnesium alloy	JongIl Kim	Chungnam National University
PS-72	Electrical Properties of MoTe <sub>2</sub> FETs with High- $k$ Gate Dielectrics	Pan-Gum Jung	Chosun University
PS-73	Surface Characteristics of Metallic 3D Printed Dental Products	Gyeong-Yun Kim	Chosun University
PS-74	Enhanced Electrical Conductivity of the Carbon Nanocoils using H <sub>2</sub> -Plasma	GiHwan Kang	Silla University