

List of papers for Poster Session (I) on Monday, November 18, 2019

Presenters are required to stand near their poster from 18:00-19:30 on 11/18 (Monday). Posters must be removed after the closing time by their respective presenters. The provided poster boards measure 2.1 m in height and 0.9 m in width. Posters are recommended to be A0 size in portrait orientation (841 x 1189 mm). Tapes will be provided to attach your posters to the boards.

Poster Number	Title	Author name	Affiliation	Co-authors	Corresponding Author
Symposium A: Coatings for sustainable energy					
A-P-19	Mechanism study of Zn/Sn ratio on the MoSe ₂ formation in Zn-rich Cu ₂ ZnSnSe ₄ absorber layer	Yi-Cheng Lin	National Changhua University of Education, Taiwan	Ya-Ru Hsu, Yi-Cheng Lin, Feng-Shen Hong	Yi-Cheng Lin
A-P-33	Enhancing electrochemical capability of electrophoretically deposited reduced graphene oxides on nickel foam by nitrogen atmospheric-pressure plasma jet treatment	Jui-Chen Hsin	National Taiwan University, Taiwan	Jui-Chen Hsin, Jian-Zhang Chen	Jian-Zhang Chen
A-P-34	Long lasting hydrophilicity of scanning atmospheric-pressure plasma jet (APPJ)-treated carbon cloth and its application for reduced graphene oxide (rGO)-polyaniline (PANI)-chitosan (CS) composite supercapacitor	Jui-Hsuan Tsai	National Taiwan University, Taiwan	Yi-Chen Cheng, Jui-Hsuan Tsai, Cheng-Che Hsu, I-Chun Cheng, Meng-Jiy Wang, Jian-Zhang Chen	Jian-Zhang Chen
A-P-35	Influence of nitrogen flow rate on properties of atmospheric-pressure-plasma jet (APPJ)-processed reduced graphene oxide supercapacitors	Ching-Feng Fan	National Taiwan University, Taiwan	Ching-Feng Fan, Yi-Chia Chien, Cheng-Che Hsu, I-Chun Cheng, Li-Shian Chien, Jian-Zhang Chen	Jian-Zhang Chen

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A-P-42	Enhancement of electrocatalytic activity for 1-propanol oxidation in alkaline media via Au nanoparticles-TiO ₂ /Polyaniline composite film	Wan-Ting Chiu	The University of Tokyo, Japan	Wan-Ting Chiu, Yi-Hsuan Chiu, Ping-Yen Hsieh, Tso-Fu Mark Chang, Masato Sone, Yung-Jung Hsu, Agnès Tixier-Mita, Hiroshi Toshiyoshi	Wan-Ting Chiu
A-P-47	Effect of different binders on the performance of spray coating of TiO ₂ photoanode for dye-sensitized solar cell	Boen Houng	I-Shou University, Taiwan	Boen Houng, Tsung-Han Tsai, Jih-Kai Wu	Boen Houng
A-P-58	Preparation of high performance supercapacitor by using activated carbon doped with AgNWs and MnO ₂	Jun-Xiang Zhang	Da-Yeh University, Taiwan	Jun-Xiang Zhang, Jnug-Jie Huang, Yu-Xuan Zhang	Jnug-Jie Huang
A-P-72	The electro-optical characteristics of indium magnesium zinc oxide films deposited by co-sputtering	Wen-Chang Huang	Kun Shan University, Taiwan	Tien-Chai Lin, Ping-Chin Kuo, Wen-Chang Huang	Wen-Chang Huang
A-P-73	Tantalum doped vanadium pentoxide oxide for the ion storage layer of electrochromic device	Wen-Chang Huang	Kun Shan University, Taiwan	Tien-Chai Lin, Wei-Hao Huang, Wen-Chang Huang	Tien-Chai Lin
A-P-83	Spontaneous growth of n-type Cu ₂ O thin films in acidic solutions for solar water splitting	Zih-Ling Yang	National Dong Hwa University, Taiwan	Zih-Ling Yang, Yu-Kuei Hsu	Yu-Kuei Hsu
A-P-98	High-rate sputter deposition of chromium oxide thin films under metallic target mode using water vapor as a reactive gas	Fan Wang	Kitami Institute of Technology, Japan	Fan Wang, Yoshio Abe, Midori Kawamura, Kyung Ho Kim, Takayuki Kiba	Yoshio Abe
A-P-99	Reactive sputtering of tantalum oxide solid-electrolyte thin films under metallic-target mode by water vapor injection	Yusuke Ito	Kitami Institute of Technology, Japan	Yusuke Ito, Yoshio Abe, Midori Kawamura, Kyung Ho Kim, Takayuki Kiba	Yoshio Abe

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A-P-100	Fabrication and characterization of electrochromic device based on NiO _x and WO _x complementary structure using Nafion electrolyte and Ta ₂ O ₅ protective film	Chihiro Nakai	Kitami Institute of Technology, Japan	Chihiro Nakai, Yoshio Abe, Midori Kawamura, Kyung Ho Kim, Takayuki Kiba	Yoshio Abe
A-P-107	Photoactivated properties of TiO ₂ /NiO p-n heterogeneous nanorods through sputtering deposited NiO shell layers	Kai-Jen Chiang	National Taiwan Ocean University, Taiwan	Kai-Jen Chiang, Yuan-Chang Liang	Kai-Jen Chiang
A-P-112	Fabrication and characterization of apatite-type lanthanum silicate-based SOFC electrolyte films deposited by rf magnetron sputtering	Chia-Ying Chan	National Taipei University of Technology, Taiwan	Chia-Ying Chan, Sea-Fue Wang	Sea-Fue Wang
A-P-150	Facile synthesis of indium phosphide thin films for solar hydrogen generation	Heng-Yi Lin	National Dong Hwa University, Taiwan	Heng-Yi Lin, Yu-Kuei Hsu	Yu-Kuei Hsu
A-P-167	High performance CZTSSe solar cell by using cadmium free non-toxic Zn(O,S) buffer layer	Wei-Hao Chen	National Taiwan Normal University, Taiwan	Wei-Hao Chen, Yun-Fu Chen, Yu-Hsuan Yu, Yu-Chiao Lin, Chi-Chung Kei, Jih-Shang Hwang, Cheng-Ying Chen, Kuei-Hsien Chen, Li-Chyong Chen	Cheng-Ying Chen
A-P-181	The effect of PbI ₂ dissolved in mixed solvents on sequential deposited perovskite solar cells	Yu-Sheng Chen	National Chung Hsing University, Taiwan	Yu-Sheng Chen, Shu-Chen Kao, Chih-Liang Wang	Chih-Liang Wang
A-P-187	Potential-reversal electrodeposition of transparent MoS ₂ thin film as cathode materials for efficient bifacial dye-sensitized solar cells	Ya-Han Lin	Tatung University, Taiwan	Ya-Han Lin, Krishnan Shanmugam Anuratha, Chien-Kou Hsieh, Jeng-Yu Lin	Jeng-Yu Lin

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A-P-191	Study of metal chalcogenide: CISSe for photovoltaics	I-Jui Hsieh	National Taipei University of Technology, Taiwan	I-Jui Hsieh, You-Syuan Ye, Yun-Fu Chen, Yu-Chen Chen, Chih-Yang Huang, Po-Chun Chen, Li-Chyong Chen, Kuei-Hsien Chen, Cheng-Ying Chen	Cheng-Ying Chen
A-P-193	Efficient suppression of metal dissolution for $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ cathode materials in lithium ion batteries at elevated temperature by atomic layer deposition approach	Chang-Peng Shih	Tatung University, Taiwan	Chang-Peng Shih, Bo-Yi Lee, Chien-Kou Hsieh, Jeng-Yu Lin	Chang-Peng Shih
A-P-199	Fabrication of porous sputtered ZnO thin film by-post annealing	Ping-Che Lee	National Cheng Kung University, Taiwan	Chuan-Pu Liu	Chuan-Pu Liu
A-P-207	Nanocomposites of reduced graphene oxides doped in hydrous ruthenium oxide based thin-film micro-supercapacitors	Pong-Hong Yeh	Ming Chi University of Technology, Taiwan	Po-Hung Yeh, Tzu-Kuan Chuang, Wen-Ya Lee, Jeng-Yu Lin, Liang Cheng, Chien-Kuo Hsieh	Chien-Kuo Hsieh
A-P-208	Highly-porous hierarchically microstructure of graphene-decorated nickel foam supported two-dimensional quadrilateral shapes of cobalt sulfide nanosheets as efficient electrode for methanol oxidation	Kai-Hsiang Lo	Ming Chi University of Technology, Taiwan	Kai-Hsiang Lo, Chao-Kuang Cheng, Tsung-Kuang Yeh, Chien-Kuo Hsieh	Chien-Kuo Hsieh
A-P-213	Optical property simulation, color distribution and fabrication of $\text{Al}_2\text{O}_3/\text{Ti}/\text{Al}_2\text{O}_3/\text{Ti}$ multilayer stacks for the colored solar selective absorber for the buildings	Fu-Der Lai	National Kaohsiung University of Science and Technology, Taiwan	Fu-Der Lai, Wen-Yang Li	Fu-Der Lai

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A-P-215	Synthesis of double core-shell carbon/silicon/graphite composite anode materials for lithium-ion batteries	Wei-Ren Liu	Chung Yuan Christian University, Taiwan		Wei-Ren Liu
A-P-219	Achieving thermoelectric improvement of flexible Bi ₂ Te ₃ thick film through DC magnetron sputtering technique and subsequent annealing process	Aparporn Sakulkalavek	King Mongkut's Institute of Technology Ladkrabang, Thailand	Supasak Kianwimol, Adul Harnwunggmoung, Aparporn Sakulkalavek	Aparporn Sakulkalavek
A-P-222	Enhancing the thermoelectric properties of sputtered Sb ₂ Te ₃ thick films via post-annealing treatment	Rachsak Sakdanuphab	King Mongkut's Institute of Technology Ladkrabang, Thailand	Prasopporn Junlabhut, Pilaipon Nuthongkum, Aparporn Sakulkalavek, Rachsak Sakdanuphab	Rachsak Sakdanuphab
A-P-223	Effects of graphene nanosheets with different sizes as conductive additives on the electrochemical performance of a LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode for Li ion batteries	Ting-Hao Hsu	Chung Yuan Christian University, Taiwan,	Ting-Hao Hsu, Wei-Ren Liu	Wei-Ren Liu
A-P-229	Performance investigation of planar solid oxide fuel cell with glass-ceramic tape sealant in stacking assembly application	Tai-Nan Lin	Institute of Nuclear Energy Research, (INER), Atomic Energy Council, Taiwan	Tai-Nan Lin, Wei-Xin Kao, Szu-Han Wu, Yung-Neng Cheng, Ruey-Yi Lee	Tai-Nan Lin
A-P-263	Optimization of highly visible-light enhanced CO ₂ photoreduction on Ag nanoparticles/ZnO nanorods array by deep learning acceleration	Sheng-Che Yen	National Cheng Kung University, Taiwan	Sheng-Che Yen, Yu-Lin Chen, Jih-Jen Wu, Jen-Sue Chen, Yen-Hsun Su	Yen-Hsun Su
A-P-310	Ultrathin and dense titanium dioxide electron transport layer prepared by spatial atomic layer deposition for perovskite solar cells	Shui-Yang Lien	Xiamen University of Technology, Xiamen, China	Ka-Te Chen, Chia-Hsun Hsu, Xiao-Ying Zhang, Chen Wang, Shui-Yang Lien, Peng Gao, Wen-Zhang Zhu	Shui-Yang Lien

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A-P-319	Electroless Ni-B coating on Cu substrate to improve electrolyte resistance for Li-ion battery	Suekun Yoon	Kongju National University, Republic of Korea	Sukeun Yoon, Sollee Kim, Namchul Kim	Sukeun Yoon
A-P-320	Effect of each layer thickness of solar absorber film of Al ₂ O ₃ /Pt/Al ₂ O ₃ on the photo-thermal conversion efficiency for rapid industrial production	Chun Yi Lin	National Kaohsiung University of Science and Technology, Taiwan	Fu-Der Lai, Chun-Yi Lin, Rong-tang Li	Fu-Der Lai
A-P-331	Air-based sputtering deposition of TiN films with different morphologies for electrodes in direct methanol fuel cells	Yi-Hsuan Hsu	National Chung Hsing University, Taiwan	Yi-Hsuan Hsu, Fen-Kuan Chen, Yu-Chen Tsai, Fu-Hsing Lu	Fu-Hsing Lu
A-P-345	Photocatalytic hydrogen Evolution of Ni-Modified nitrogen-doped graphene oxides sheets by microwave hydrothermal method	Chia-Wei Chang	National Cheng Kung University, Taiwan	Chia-Wei Chang, Jyh-Ming Ting, Onuma Kaoru, Min-Hsiung Hon, Yen-Hsun Su	Jyh-Ming Ting, Yen-Hsun Su
A-P-348	Effects of ALD process Al ₂ O ₃ rear surface passivation layer for PERC solar cells	Shuxin Wang	ISAC research, South Korea	SHUXIN WANG, Seong Chan Kang, Kang Hun Jo, Hyung Sang Park,	Chae-Woong Kim
A-P-354	High temperature multilayered W-HfO _{2-x} solar absorber coatings	Lih-yang Chiu	National Cheng Kung University, Taiwan	Lih-Yang Chiu, Yi-Hui Zhuo, Jyh-Ming Ting	Jyh-Ming Ting
A-P-357	Microwave-assisted hydrothermal synthesis of nanocomposite nitrogen doped graphene oxide nanosheets combined with TiO ₂ nanoparticles for photocatalytic reaction	Wen-Liang Wu	National Cheng Kung University, Taiwan	Wen-Liang Wu, Chia-Wei Chang, Jyh-Ming Ting, Min-Hsiung Hon, Yen-Hsun Su	Yen-Hsun Su
A-P-392	Surface analysis and nanomechanical properties of NiO thin films	Chun-Ming Tsai	I-Shou University, Taiwan	Guo-Ju Chen, Wen-Jia Hsieh, Chun-Ming Tsai	Guo-Ju Chen
A-P-396	Preparation of LiFe _{1-x} Mn _x PO ₄ /C cathode materials at pH=6.5 by hydrothermal and calcination process	Wen-Chen Chien	Ming Chi University of Technology, Taiwan	Wen-Chen Chien, Zong-Ming Hsieh, Chuan-En Tseng	Wen-Chen Chien

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A-P-398	Influence of annealing temperature and dopant on characteristic of nickel oxide thin films	Kyung Ho Kim	Kitami Institution of Technology, Japan	Kyung Ho Kim, Mei Kahuku, Yoshio Abe, Midori Kawamura, Takayuki Kiba	Kyung Ho Kim
A-P-404	Structural control of magnetron sputtered vanadium oxide thin films by post-thermal annealing	Junichi Nomoto	National Institute of Advanced Industrial Science and Technology (AIST), Japan	Junichi Nomoto, Iwao Yamaguchi, Tetsuo Tsuchiya	Junichi Nomoto
A-P-405	Excimer laser irradiation technique for achieving low electrical resistivity and high work function in transparent conductive polycrystalline In ₂ O ₃ -SnO ₂ (ITO) films	Junichi Nomoto	National Institute of Advanced Industrial Science and Technology (AIST), Japan	Junichi Nomoto, Iwao Yamaguchi, Tetsuo Tsuchiya	Junichi Nomoto
A-P-407	Effect of rapid thermal annealing on the thermoelectric properties of AgSbTe ₂ thin films prepared by DC magnetron sputtering process	Athorn Vora-ud	Sakon Nakhon Rajabhat University, Thailand	Somporn Thaowankaew, Athorn Vora-ud, Mati Horprathum, Tosawat Seetawan	Athorn Vora-ud
A-P-413	Direct electrodeposition of micropatterned platinum thin films and their catalytic behaviors studied using scanning electrochemical microscope	Cheng-Lan Lin	Tamkang University, Taiwan	Cheng-Lan Lin, Ting-Jiun Lin	Cheng-Lan Lin
A-P-416	Complementary quasi-solid-state electrochromic devices using polyaniline and tungsten trioxide thin films with succinonitrile/polyethylene glycol composite electrolyte	Cheng-Lan Lin	Tamkang University, Taiwan	Cheng-Lan Lin, An Chen	Cheng-Lan Lin
A-P-419	The correlation of radical densities and process parameters in APPJ and the subsequent big data analyses.	Yu-Wei Liu	Ming Chi University of Technology, Taiwan	Y. W. Liu, J. H. Hsieh	J. H. Hsieh

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A-P-421	Prediction of NO radicals from extended atmospheric pressure plasma jet by machine learning	Chun-Yi Lee	Ming Chi University of Technology, Taiwan	C. Y. Lee, C. T. Yu, C. Li, J. H. Hsieh	J. H. Hsieh
A-P-422	Verification water splitting efficiency with fuzzy neural network method and genetic algorithm neural network method	Lai Yi-Sheng	National Cheng Kung University, Taiwan	Yi-Sheng Lai, Jyh-Ming Ting, Yen-Hsun Su	Yen-Hsun Su
A-P-423	Wind power generating device for enhancement of power efficiency based on piezoelectric polymer film	Seongwan Kim	Jeju National University, Republic of Korea	Seongwan Kim, Woo Young Kim	Seongwan Kim
A-P-426	Condition monitoring of wind power generator based on piezoelectric devices with polymeric thin film structure	Yunsook Yang	Jeju National University, Republic of Korea	YunSook Yang , Woo Young Kim	YunSook Yang
A-P-428	Aluminium oxide layers on Fe ₂ O ₃ /stainless steel for high temperature solar absorbers	Sean Wu	Tung Fang Design University, Taiwan	Sean Wu, Chin-Hsiang Cheng, Zhen-Ting Hoo	Sean Wu
A-P-430	Characterization of propagated plasma plume produced by atmospheric pressure plasma jet with silicone tube	Yi-Jin Wei	Ming Chi University of Technology, Taiwan	J. H. Hsieh, Y. J. Wei	J. H. Hsieh
A-P-462	Reduced graphene oxide/ZnO nanocomposite as cathode buffer layer for inverted perovskite solar cells	Wan-Chin Yu	National Taipei University of Technology, Taiwan	Zhe-Min Lu, Chieh-Ming Yu, Wan-Chin Yu	Wan-Chin Yu
A-P-483	Near-infrared-absorbing organic photovoltaics with anti-reflective Ag-ITO transparent electrodes	Jong-Hong Lu	Ming Chi University of Technology, Taiwan	Tsung-Han Tsai, Jong-Hong Lu, Ming-Tsang Cheng, Bing-Huang Jiang, Hsiang-Lin Hsu, Chih-Ping Chen	Jong-Hong Lu

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A-P-493	Amorphous deposition, space-limited, and epitaxial crystal growth of TiO ₂ films grown on FTO-glass substrates by atomic layer deposition and their photoelectrical response	Wen-Jen Lee	National Pingtung University, Taiwan	Wen-Jen Lee, Min-Hsiung Hon	Wen-Jen Lee
A-P-497	Surface modification on electrode layers of storage cell via Radio Frequency Atmospheric-Pressure Plasma	Bi-Hua Chiu	National Taiwan University of Science and Technology, Taiwan	Bi-Hua Chiu, Hsiao-Chan Chang, Yu-Lin Kuo, Li-Shan Huang, Fu-Ming Wang, Wen-Sheng Chang, Ching-Chen Wu	Bi-Hua Chiu
A-P-500	Study of Ag composite cathode films deposited by atmospheric pressure plasma jet for intermediate temperature solid oxide fuel cells	Hao-wei Chang	National Taiwan University of Science and Technology, Taiwan	Hao-Wei Chang, Yu-Lin Kuo, Sagung Dewi Kencana, Yi-Jun Lin	Hao-Wei Chang
A-P-529	Synthesis and improvement in electrochromic properties NiO film for device applications	Dipti Ranjan Sahu	Namibia University of Science and Technology, India	D. R. Sahu, Tzu-Jung Wu, Sheng-Chang Wang, Jow-Lay Huang	Dipti Ranjan Sahu
A-P-541	Modification of LiMn _{0.8} Fe _{0.2} PO ₄ /nitrogen-doped carbon via dielectric barrier discharge plasma for high performance lithium ion batteries	Chia-Yu Su	National Tsing Hua University, Taiwan	Chia-Yu Su	Jenq-Gong Duh
A-P-548	Stress characteristics in co-sputtered CIGST thin films after rapid thermal annealing for photovoltaic applications	Kim Nam-Hoon	Chosun University, Republic of Korea	Sakal Pech, Myoung Han Yoo, Min-Chang Kim, Geum-Bae Cho, Nam-Hoon Kim	Nam-Hoon Kim
A-P-554	High efficiency electrode of niobium base materials/graphene oxide composite for vanadium redox flow battery	Yang-Yi Ou	National Taiwan University of Science and Technology, Taiwan	Yang-Yi Ou, Ting-Ruei Liu, Chen-Hao Wang	Chen-Hao Wang
A-P-560	Band structure-controlled thin film of WS ₂ photocatalyst for artificial	Shang-Hsuan Tsai	National Taiwan University of Science	Shang-Hsuan Tsai, Yi-Fan Huang,	Li-Chyong Chen

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	photosynthesis		and Technology, Taiwan	Hsiang-Ting Lien, Yu-Chung Chang, Chen-Hao Wang, Kuei-Hsien Chen, Li-Chyong Chen	
A-P-582	Improvements of the suspension flame spray for the 8YSZ electrolyte deposition in the SOFC	Yu-Cheng Lai	National Taipei University of Technology, Taiwan	Kui-Yi Lin, Yu-Cheng Lai, Yung-Chin Yang	Yung-Chin Yang
A-P-587	Development of electrospun microtube array membrane for anode application in the microbial fuel cell	Yung-Chin Yang	National Taipei University of Technology, Taiwan	Hua-Hsuan Chuang, Xi-Zhen Lin, Chien-Chung Chen, Yung-Chin Yang	Yung-Chin Yang
Symposium B: Nanostructured and nanocomposite coatings					
B-OP-377	Metallic glass nanotube array for potential application as nanomechanical resonator in quantum information processing	Juan Carlos Novero	University of the Philippines – Diliman, Philippines	Juan Carlos C. Novero, Giancarlo Dominador D. Sanglay, Magdaleno R. Vasquez Jr., Pak-man Yiu, Jinn P. Chu	Pak-man Yiu
B-P-4	Influence of graphene/copper hybrid nanoparticle additives on tribological properties of solid lubricants	Shih-Chen Shi	National Cheng Kung University, Taiwan		Shih-Chen Shi
B-P-18	The effects of sputtering parameters on the phase evolution, microstructure and electrical property of TaN thin films	Xu Hui-Ru	National Pingtung University of Science & Technology, Taiwan	Hui-Ru Xu · Cheng-Xian Lin · Ying-Chieh Lee · Yaw-Teng Tseng	Ying-Chieh Lee
B-P-23	Corrosion resistance and conductivity of CN _x coatings deposited by RF-PECVD	Yan-Zhi Chen	National Formosa University, Taiwan	Yen-Zhi Chen	Yin-Yu Chang

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B-P-37	Deposition of AlCrSiN and AlTiCrSiN hard coatings and their mechanical properties and cutting performance	Cheng-Hsi Chung	National Formosa University, Taiwan	Cheng-Hsi Chung, Chi sheng-Chen, Liang-Chan Chao	Yin-Yu Chang
B-P-39	Photoelectrochemical properties of TiO ₂ /Ni(OH) ₂ composite film on corrosion protection of 304 stainless steel	Tzu-Hsuan Tsai	National Taipei University of Technology, Taiwan	Ming-Hsiu Tu, Pei-Jie Wu, Che-Yu Kuo, Tzu-Hsuan Tsai	Tzu-Hsuan Tsai
B-P-50	Magnetic properties and microstructure of CoCrPt film on RuCoCr _x (X=Ti, Re) intermediate layers	Jai Lin Tsai	National Chung Hsing University, Taiwan	Jyun-you Chen, Cheng Dai, Ting-Wei Hsu, Shi-Min Weng, Lin-Chen Huang, Jai-Lin Tsai, Gaspere Varvaro	Jai-Lin Tsai
B-P-53	Titanium oxide hollow structure layer for photocatalyst by liquid phase deposition	Jnug-Jie Huang	Da-Yeh University, Taiwan	Jui-Yu Wang, Jnug-Jie Huang	Jnug-Jie Huang
B-P-65	Fast fabrication of femtosecond laser textured superhydrophobic surfaces on silicon wafer	Bosu Jeong	Korea Electrotechnology Research Institute, Republic of Korea	Bosu Jeong, Byunghak Lee, Younghyeon Kim, Juhee Yang, Elena G.Sall, Jun Wan Kim, Duchang Heo, Jinah Jang, Young Min Bae, Guang-Hoon Kim	Guang-Hoon Kim
B-P-82	Emission enhancement of tris (8-hydroxyquinolino) aluminium with plasmonic Al nanostructure	Natsumi Iijima	Kitami Institute of Technology, Japan	Natsumi Iijima, Mai Ugajin, Takayuki Kiba, Midori Kawamura, Yoshio Abe, Kyung Ho Kim, Akio Higo, Junichi Takayama, Satoshi Hiura, Akihiro Murayama	Takayuki Kiba
B-P-89	Electroless plating of PET catalyzed in supercritical CO ₂	Kenichi Tokuoka	Tokyo Institute of Technology, Japan	Kenichi Tokuoka	Kenichi Tokuoka

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B-P-95	Modification of spinel-based CoV_2O_4 material via Mn-substitution as potential anode materials for Li-ion storage	Muruganantham Rasu	Chung Yuan Christian University, Taiwan	Rasu Muruganantham, Jeng-Shin Lu, Irish Valerie Buiser Maggay, Wei-Ren Liu, Chia-Her Lin	Wei-Ren Liu
B-P-101	Effects of copper and zinc precursors on characteristic of nickel hydroxide nanostructure	Moe Mikami	Kitami Institute of Technology, Japan	Moe Mikami, Kyung Ho Kim, Yoshio Abe, Midori Kawamura, Takayuki Kiba	Kyung Ho Kim
B-P-103	Fabrication and characterization of nickel-cobalt double hydroxide prepared via simple one-pot method	Sena Motoyama	Kitami Institute of Technology, Japan	Sena Motoyama, Kyung Ho Kim, Yoshio Abe, Midori Kawamura, Takayuki Kiba	Kyung Ho Kim
B-P-105	Plasmon-assisted electrochemical reduction of H_2O_2 on Ag nanowires	Ying-Zhen Chen	National Dong Hwa University, Taiwan	Ying-Zhen Chen, Yu-Kuei Hsu	Yu-Kuei Hsu
B-P-106	Comparison of Ag and Al/Ag films deposited in different gases	Takeshi Hamano	Kitami Institute of Technology, Japan	Takeshi Hamano, Eita Kudo, Midori Kawamura, Takayuki Kiba, Yoshio Abe, Kyung Ho Kim, Hiroshi Murotani	Midori Kawamura
B-P-108	Cosputtering deposition of NiO/ZnO composite thin films and their reducing gas-sensing properties	Yen-Cheng Chang	National Taiwan Ocean University, Taiwan	Yen-Cheng Chang, Yuan-Chang Liang	Yen-Cheng Chang
B-P-109	Effect of aluminum surface layer on silver thin film at environmental test under various humidity conditions	yuya Sasaki	Kitami Institute of Technology, Japan	Yuya Sasaki, Midori Kawamura, Takayuki Kiba, Yoshio Abe, Kyung Ho Kim, Mai Hayamizu, Hiroshi Murotani	Midori Kawamura

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B-P-111	Carbon-coated Si particles binding with few-layered graphene via a liquid exfoliation process as potential anode material for lithium-ion battery	Cheng-Che Hsieh	Chung Yuan Christian University, Taiwan	Cheng-Che Hsieh, Wei-Ren Liu	Wei-Ren Liu
B-P-114	Morphology control synthesis of Co ₃ O ₄ nanosphere/Co(OH) ₂ nanosheet hybrid and its application in supercapacitor	Yu-Sheng Hsiao	Ming Chi University of Technology, Taiwan	Jia-An Chou, Chieh-Lin Chung, Po-Cheng Ho, Jen-Hsien Huang, Yu-Sheng Hsiao	Yu-Sheng Hsiao
B-P-135	Effect of copper oxide nanostructure on different etched silicon substrates to ethanol gas sensitivity	Feng-Renn Juang	National Sun Yat-sen University, Taiwan	Feng-Renn Juang, Chieh-Chih Hsiao	Feng-Renn Juang
B-P-137	Enhancement to glucose sensing performance of CuO by ITO surface modification and K-doped p-ZnO	Feng-Renn Juang	National Sun Yat-sen University, Taiwan	Feng-Renn Juang, Cheng Kao	Feng-Renn Juang
B-P-147	Magnetic Fe ₃ O ₄ -Au nanoparticles loaded on silicate nanosheets for SERS detection	Wei-Ting Chen	Ming Chi University of Technology, Taiwan	Wei-Ting Chen†, Ting-Yu Liu*, Chi-Ming Liu, Zi-Ling Zeng, Wei-En Wu	Ting-Yu Liu
B-P-158	Enhanced organic dye degradation by piezophotocatalysis of Ag ₃ PO ₄ /ZnO nanowires using solar and mechanical energy simultaneously	Yan Yu	Xi'an University of Technology, China	Yan Yu, Binghua Yao, Wei Ma, Baoyue Cao	Binghua Yao
B-P-159	Preparation, characterization and photocatalytic mechanism of N-CQDs/InNbO ₄ nanocomposites	Jie Zhao	Xi'an University of Technology, China	Jie Zhao, Fei Wu, Xiao Guo, Qiang Song, Yawei Feng	Jie Zhao
B-P-170	Facile synthesis of a novel g-C ₃ N ₄ /BiOBr/SnO ₂ composite photocatalytic membrane material with enhanced photocatalytic activity	Zhan yao Gao	Xi'an University of Technology, China	Zhanyao Gao, Binghua Yao	Binghua Yao

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B-P-173	Fabrication of CuO/Cu foam nanocomposite electrode for pseudocapacitors	Mary Donnabelle Balela	University of the Philippines, Philippines	Mary Donnabelle L. Balela, Regienald E. Masirag, Francis O. Pacariem Jr., Juicel Marie D. Taguinod, Salvacion Orgen	Mary Donnabelle Balela
B-P-176	Gold-silver nanoisland arrays coated onto chromium-glass slides by thermal evaporation for SERS detecting	Ting-Yu Liu	Ming Chi University of Technology, Taiwan	Wei-Lin Syu, Chia-Wei Hsiao, Zi-Ling Zeng, Wei-En Wu, Chia-Tzu Hsu, Yun-Chih Chao, Ting-Yu Liu	Ting-Yu Liu
B-P-190	Photo-thermal and anti-bacterial capability of amino-modified graphene oxide nanoplatelets	Yu-Weu Cheng	National Taiwan University, Taiwan	Yu-Wei Cheng, Chi-Ming Liu, Wei-Ting Chen, Chia-Tzu Hsu, Yun-Chih Chao, Ting-Yu Liu	Ting-Yu Liu
B-P-197	Oriented Si ₃ N ₄ crystallites formed by plasma nitriding of SiO ₂ /Si (111) substrate	Chang Hua Yu	National Chiao Tung University, Taiwan	Chang-Hua Yu, Kuan-An Chiu, Li Chang	Chang-Hua Yu
B-P-198	The synthesis of multi-layer graphene-like structure commercial candle as the hydrocarbon solid precursor	Wen-Ya Lee	Ming Chi University of Technology, Taiwan	Wen-Ya Lee, Cheng Liang, Chien-Kuo Hsieh	Chien-Kuo Hsieh
B-P-200	Ag nano-island arrays deposited on biomimetic and flexible pdms substrates by thermal evaporation for sers detection	Chia-Wei Hsiao	Ming Chi University of Technology, Taiwan	Chia-Wei Hsiao, Ting-Yu Liu, Yi-Shao Ting, Wei-Lin Hsu, Zi-Ling Zeng, Wei-En Wu	Ting-Yu Liu
B-P-202	Research of MnO ₂ /VGCNF/CFC Composite Electrode Materials for Supercapacitors	Jia Chern Jesmond Goh	Da-Yeh University, Taiwan	Goh Jia Chern Jesmond, Wan-Yu Wu	Wan-Yu Wu
B-P-203	Magnetron sputtering of tungsten-containing /TiN _x O _y multilayered solar selective coatings	Siang-Yun Li	National Cheng Kung University, Taiwan	Siang-Yun Li, Yun-Hwei Shen, Jyh-Ming Ting	Jyh-Ming Ting

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Poster Number	Title	Author name	Affiliation	Co-authors	Corresponding Author
B-P-224	Cu(Ru) alloy thin films prepared by electrochemical co-deposition	Jau-Shiung Fang	National Formosa University, Taiwan	Jau-Shiung Fang, Yu-Ze Chen, Yu-Lin Wu	Jau-Shiung Fang
B-P-226	Cu(Mn) alloy thin film prepared by using Cu to replace underpotential deposited Mn through surface-limited redox replacement	Jau-Shiung Fang	National Formosa University, Taiwan	Jau-Shiung Fang, Yu-Fei Sie, Chung-Cheng Huang, Ying-Ning Lin	Jau-Shiung Fang
B-P-242	Exchange bias in CoFe/MnN films on glass substrates	HW Chang	National Chung Cheng University, Taiwan	H.W. Chang, C.Y. Shen, Y.H. Chien, Y.L. Lai, C.R. Wang, W.C. Chang	H.W. Chang
B-P-243	Magnetic properties and microstructure of Fe-rich FePt films	HW Chang	National Chung Cheng University, Taiwan	H.W. Chang, C.Y. Shen, Y.C. Wang, M.F. Huang, C.R. Wang, W.C. Chang	H.W. Chang
B-P-244	Magnetic phase transitions driven by thermal annealing related compositional changes for Ni/Si(111)	Tsay Jyh-Shen	National Taiwan Normal University, Taiwan	Cheng-Hsun-Tony Chang, † Yu-Ting Chow, Pei-Cheng Jiang, Chen-Yuan Hsieh, Jyh-Shen Tsay	Jyh-Shen Tsay
B-P-260	Characterization and piezoelectric properties of C-axis ScAlN films on LiNbO ₃ substrate	Ping Ho Lee	National Cheng Kung University, Taiwan	Ping-Ho Lee, Chun-Ting Shen, Sean Wu, Jow-Lay Huang	Jow-Lay Huang
B-P-267	Black metals prepared by magnetron sputtering	Michal Novotný	Institute of Physics of the Czech Academy of Sciences, Czech Republic	Michal Novotný, Joris More-Chevalier, Přemysl Fitl, Petr Hruška, David Tomeček, Petr Pokorný, Ladislav Fekete, Morgane Poupon, Martin Vondráček, Jiří Bulíř, Marina Romanova, Yuri Dekhtyar, Oksana Melikhova, Jan Lančok	Michal Novotný

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Poster Number	Title	Author name	Affiliation	Co-authors	Corresponding Author
B-P-274	Effect of tungsten doping on indium zinc oxide thin films grown by sputter deposition for CBRAM devices	Yi-Jung Liu	National Chiao Tung University, Taiwan	Yi-Jung Liu, Po-Tsun Liu, Kai-Jih Gan, Dun-Bao Ruan, Yu-Chuan Chiu, Sheng-Jie Lin, Simon M. Sze	Po-Tsun Liu
B-P-275	Enhanced resistive switching performance for bilayer InGaZnO/Al ₂ O ₃ CBRAM	Yi-Jung Liu	National Chiao Tung University, Taiwan	Kai-Jih Gan, Po-Tsun Liu, Dun-Bao Ruan, Yu-Chuan Chiu, Simon M. Sze	Po-Tsun Liu
B-P-279	Evaluating surface plasmon resonance of metal nanoparticles coated on ZnO nanoflower by neural network machine learning	Chia-Chen Wu	National Cheng Kung University, Taiwan	Chia-Chen Wu, Yu-Lin Chen, Jih-Jen Wu, Jen-Sue Chen, Yen-Hsun Su	Yen-Hsun Su
B-P-280	Black metal films for improvement of gas sensors based on quartz crystal microbalance	Premysl Fitl	University of Chemistry and Technology Prague, Czech Republic	Fitl Premysl, Hruska Martin, Novotny Michal, More-Chevalier Joris, Tomeček David, Havlova Sarka, Vlcek Jan, Vrnata Martin, Fara Jan, Hruska Petr, Melikhova Oksana	Premysl Fitl
B-P-283	Hydrophobic surface of nanocrystalline iron disilicide thin films prepared by facing-target direct-current sputtering	Peerasil Charoenyuenyao	King Mongkut's Institute of Technology Ladkrabang, Thailand	Peerasil Charoenyuenyao, Nathaporn Promros, Rawiwan Chaleawpong, Nattakorn Borwornpornmetee, Pattarapol Sittisart, Tonnum Sujjaritturakarn, Yūki Tanaka, Tsuyoshi Yoshitake	Nathaporn Promros
B-P-290	Highly sensitive humidity sensor based on solution processed P(VDF-TrFE) /graphene composite with printed technology	Shenawar Ali Khan	JEJU National University, Republic of Korea	Shenawar Ali Khan, Muhammad Saqib, Woo Young Kim	Woo Young Kim

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Poster Number	Title	Author name	Affiliation	Co-authors	Corresponding Author
B-P-294	Metal oxides/P(VDF-TrFE) composite based humidity sensor and comparative study of their responsivity and stability	Muhammad Saqib	JEJU National University, Republic of Korea	Muhammad Saqib, Shenawar Ali Khan, Woo Young Kim	Woo Young Kim
B-P-304	Enhanced photoresponse for the core-shell CNT/ZnO nanowires	Yung-Huang Chang	National Yunlin University of Science and Technology, Taiwan	Yung-Huang Chang, Yuan-Tsung Chen, Chien-Sheng Huang	Yung-Huang Chang
B-P-305	Tuning the growth mode and photoluminescence of vapor-phase deposited zinc oxide	Yue-Lin Huang	National Dong Hwa University, Taiwan	Wei-Shan Yeoh, Ying-Yi Chang, Ching-Hao Liao, Wei-Li Yeh, Hsin-Yi Lee, Yue-Lin Huang	Yue-Lin Huang
B-P-308	Acid-assisted ultrasonically milled cellulose nanocrystal/TiO ₂ /PLA composite films with enhanced UV absorption	Wisanu Pecharapa	King Mongkut's Institute of Technology Ladkrabang, Thailand	Wisanu Pecharapa, Kanokthip Boonyarattanakalin, Wanichaya Mekprasart, Kittiya Plermjai, Weerachon Phoohinkong, Sorapong Pavasupree	Wisanu Pecharapa
B-P-353	Thermal interface materials having hybrid fillers for enhancing through-thickness thermal conductance and increasing electrical resistance	Che-Juei Wu	National Cheng Kung University, Taiwan	Che-Juei Wu, Jyh-Ming Ting	Jyh-Ming Ting
B-P-356	Effect of metallic graded layers on tribological behavior of TiZrN coatings on AISI D2 steel	Wei-Jun Liu	National Tsing Hua University, Taiwan	Wei-Jun Liu, Yu-Cheng Hung	Jia-Hong Huang
B-P-365	Preparation and application of crosslinked polyimide copolymer nanocomposite materials as the gate dielectrics on OTFT	Yang-Yen Yu	Ming Chi University of Technology, Taiwan	Yang-Yen Yu, Yu-Chia Huang	Yang-Yen Yu

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Poster Number	Title	Author name	Affiliation	Co-authors	Corresponding Author
B-P-367	Preparation and application of organic/inorganic nanocomposite materials in stretched organic thin film transistors	Hsin-Te Liang	Ming Chi University of Technology, Taiwan	Yang-Yen Yu, Liang Hsin-Te, Yang Cheng-Huai	Yang-Yen Yu
B-P-417	Synthesis and characterization of nanoporous copper thin films by magnetron sputtering and subsequent dealloying	Wang-You Zeng	National Taiwan University, Taiwan	Yu-Zhen Lee, Wang-You Zeng, I-Chung Cheng	I-Chung Cheng
B-P-433	wo-stage fabrication of NiO electrode film deposited by vacuum cathodic plasma with improved electrochromic performance and cycle durability	Chen-Te Chang	Institute of Nuclear Energy Research, Atomic Energy Council, Taiwan	Chen-Te Chang, Po-Wen Chen, Sheng-Chuan Hsu, Tien-Fu Ko, Jin-Yu Wu	Po-Wen Chen
B-P-438	Al ₂ O ₃ @SiO ₂ core shell nanoparticle prepared by sol-gel method	Pin-Syuan Chen	Tatung University, Taiwan	Pin-Syuan Chen, Pei Yu Wang, Yi Hu, Si-Ying Li, Ya-Te Guo	Pin-Syuan Chen
B-P-441	Antibacterial property of Ga-TaON thin films by sputtering	Ching-Wei Liu	Ming Chi University of Technology, Taiwan	C. W. Liu, J. H. Hsieh	J. H. Hsieh
B-P-447	Deposition and characterization of multi-functional Ta-Ga-O thin films	Yi-Hsuan Hsiao	Ming Chi University of Technology, Taiwan	Y. H. Hsiao, J. H. Hsieh	J. H. Hsieh
B-P-457	Visible light enhanced formaldehyde gas sensing based on Pd/ZnO heterostructure	Wan-Chin Yu	National Taipei University of Technology, Taiwan	Ting-Wei Yeh, Shu-Shiuan Lin, Chien-Liang Ho, Wan-Chin Yu	Wan-Chin Yu
B-P-459	Fabrication and physical properties of single-crystalline beta-FeSi ₂ nanowires	Kuo-Chang Lu	National Cheng Kung University, Taiwan	Shien-Teng Hsu, Chih-Yung Yang, Kuo-Chang Lu	Kuo-Chang Lu
B-P-475	Effects of growth temperature on structural and electrical properties of In-rich InAlN-GaN heterostructures grown by radio-frequency metal-organic molecular beam epitaxy	Chen Wei-Chun	National Applied Research Laboratories, Taiwan	Wei-Chun Chen, Hung-Pin Chen, Yu-Wei Lin	Wei-Chun Chen

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Poster Number	Title	Author name	Affiliation	Co-authors	Corresponding Author
B-P-481	Physicochemical characterization of spinel lithium-titanium oxide ($\text{Li}_4\text{Ti}_5\text{O}_{12}$) doped by Eu ions synthesized using solid state synthesis	Monika Michalska	Institute of Electronic Materials Technology, Poland	Monika Michalska, Karol Lemański, Maciej Ptak, Agata Roguska, Olga Chernyayeva, Patrycja Żurek, Andrzej Sikora, Jeng-Yu Lin	Monika Michalska
B-P-484	The effect of Ce doping into lithium-titanium oxide ($\text{Li}_4\text{Ti}_5\text{O}_{12}$) spinel structured anode material	Monika Michalska	Institute of Electronic Materials Technology, Poland	Monika Michalska, Jeng-Yu Lin	Monika Michalska
B-P-488	Synthesis of barium titanate films by a hydrothermal-galvanic couple method on dual TiN thin film electrodes	Shih-Chi Huang	National Chung Hsing University, Taiwan	S.-C. Huang, C.-J. Yang, F.-H. Lu	F.-H. Lu
B-P-496	The effect of annealing temperature and time on the structure, morphology of gold/chromium thin film deposition on the AT-cut quartz wafer	Cheng-Hsun Chung	National Central University, Taiwan	Chun-Fa Hsu, Chun-Yu Chen, Shih-Feng Hsueh, Che-Hao Chang, Ya-Fang Chang, Ya-Ju Chen, Chih-Ling Hsieh, Tiem-Tsai Lan, Jung-Yu Chen, Pei-Hsuan Hsu, Tzu-Hou Wang, Chen-Jie Jiang, Wen-Jeng Lin	Chun-Fa Hsu
B-P-505	Production of $\text{Ba}(\text{Zr},\text{Ti})\text{O}_3$ coatings on binary (Ti,Zr)N thin film electrodes by plasma electrolyte oxidation	Huan Ping Teng	National Chung Hsing University, Taiwan	Huan-Ping Teng, Fu-Hsing Lu	Fu-Hsing Lu
B-P-509	The role of active species in the $\text{N}_2\text{-H}_2$ and $\text{N}_2\text{-CH}_4$ microwave afterglows on selective surface nitriding of anatase TiO_2 films	Yunfei Wang	Ajou University, Republic of Korea	Yun-Fei Wang, Andre Ricard, Jean-Philippe Sarrette, Ansoon Kim, Seol Ryu, Yu-Kwon Kim	Yu-Kwon Kim
B-P-511	Heteroepitaxial growth of DC reactive sputtered titanium zirconium nitride on Si (100)	Kun-An Chiu	National Chiao Tung University, Taiwan	Kun-An Chiu, Chia-Wei Fu, Yu-Siang Fang, Thi Hien Do, Li Chang	Li Chang

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B-P-519	Reduced graphene oxide on nickel foam for high performance supercapacitor	Bohrran Huang	National Taiwan University of Science and Technology, Taiwan	Bohr-Ran Huang, Shao Huai Bai, Deepa Kathiravan	Bohrran Huang
B-P-520	Evaluation of photocatalytic hydrogen generation activity of 2-dimensional MoS ₂ nanosheet-TiO ₂ composites	Jin-A Kim	Ajou University, Republic of Korea	Jin-A Kim, Yunfei Wang, Yoo-Kwan Kim, Yu-Kwon Kim	Yu-Kwon Kim
B-P-535	Effects of surface treatment on graphene oxide films using NH ₃ plasma generated by low-frequency (60 Hz) power source	Sung-Youp Lee	Kyungpook National University, Republic of Korea	Hong Tak Kim, Hyeong-Rag Lee, Sung-Youp Lee	Sung-Youp Lee
B-P-537	Electrochemical polymerization of conductive polymer-amphiphilic modified chitosan nanohybrids for anti-fouling and anti-clotting of cardiovascular stents	Xin-Yao Peng	Ming Chi University of Technology, Taiwan	Xin-Yao Peng, Ming-Chien Yang, Ting-Yu Liu, Kun-Ho Liu, Ming-Chi Yung	Ming-Chi Yung
B-P-539	Graphene oxide based-sponges with poly(ethylene glycol) methacrylate modified by atmospheric plasma-induced copolymerization	Kun-Ho Liu	Advanced Delivery Biotech co., Ltd., Taiwan	Kun-Ho Liu, Jung-San Chen, Shih-Hsuan Wang, Ming-Chi Yung, Chuan-Chih Hsu, Ting-Yu Liu	Ting-Yu Liu
B-P-544	Fabrication of nanoporous anodic alumina using one-step anodizing 1050 aluminum alloy for a rapid-response humidity sensor	Chen-Kuei Chung	National Cheng Kung University, Taiwan	C.A. Ku, C.K. Chung	Chen-Kuei Chung
B-P-547	The study of gamma radiation on protective DUV reflector and band-pass filters for astronomical application	Hung-Pin Chen	Taiwan Instrument Research Institute, National Applied Research	Hung-Pin Chen, Wen-Hao Cho, Wei-Chun Chen, Cheng-Chung Lee	Hung-Pin Chen

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			Laboratories, Taiwan		
B-P-551	Epoxy-based graphene nanocomposite coatings for anti-corrosion and thermal applications	Tung-Yuan Yung	Institute of Nuclear Energy Research, Taiwan	Tung-Yuan Yung, Po-Tuan Chen, Ting-Yu Liu	Tung-Yuan Yung
B-P-552	Ga-doped zinc oxide film prepared by reactive magnetron sputtering for electrochromic applications	Sheng-Chuan Hsu	Institute of Nuclear Energy Research, Atomic Energy Council, Taiwan	Sheng-Chuan Hsu, Po-Wen Chen, Tien-Fu Ko, Chen-Te Chang, Jin-Yu Wu	Po-Wen Chen
B-P-586	MOF coating on FeAu alloy nanoparticle for drug controlled release and cancer hyperthermia treatment	Ren-Jei Chung	National Taipei University of Technology, Taiwan	Ping-Hsuan Wu, Chia-Wen Wu, Ren-Jei Chung	Ren-Jei Chung
Symposium C-1: Semiconductor, optoelectronic and flexible device films					
C-OP-120	Rapid Thermal Annealing on Si film and pn-junction formation by Si paste	Huan Zhu	Graduate School of Integrated Frontier Sciences, Kyushu University, Japan	Huan Zhu, Yoshimine Kato, Kungen Teii	Huan Zhu
C-P-21	PET-Pt grown ZnO nanorods to investigate its piezoelectric property	Po-Yang Tseng	Ming Chi University of Technology, Taiwan	Po-Yang Tseng, Kun-Cheng Peng	Po-Yang Tseng
C-P-110	Effects of sputtering deposited WO ₃ seed layers on crystal growth of WO ₃ nanorods and their photocatalytic properties	Chen-Shiang Hung	National Taiwan Ocean University, Taiwan	Chen-Shiang Hung, Yuan-Chang Liang	Chen-Shiang Hung
C-P-121	Effect of low-energy ion impact on structure and electrical properties of boron nitride thin films studied in surface-wave plasma	Kungen Teii	Kyushu University, Japan	Masataka Torigoe, Yuma Kamimura, Kungen Teii, Seiichiro Matsumoto	Kungen Teii

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C-P-127	Low-temperature growth of GaN films by MBE on 2D materials MoS ₂	Iwan Susanto	National Dong-Hwa University, Taiwan	Iwan Susanto, Chi-Yu Tsai, Dianta Mustofa Kamal, Ing-Song Yu	Ing-Song Yu
C-P-128	Characterization of gallium nitride thin films grown on chemical-vapor-deposited molybdenum disulfide	Yu-Qi Jian	National Dong-Hwa University, Taiwan	Yu-Qi Jian, Hong-Shan Liu, Ing-Song Yu	Ing-Song Yu
C-P-136	Preparation and performance of high-efficiency semiconductor hybrid photocatalyst BiOBr/Ag ₃ PO ₄	Jinfen Niu	Xi'an University of Technology, China	Jin-Fen Niu, Zi-Qi Zhang, Kai Wang, Zhang-Tengfei Ma, Bing-Hua Yao, Xiao-Jiao Yu	Jin-Fen Niu
C-P-142	The variation of the magnetic properties of the ZnO/Co bilayers induced by the strain and thermal effects	Chien Chang	National University of Kaohsiung, Taiwan	Chien Chang, Chin-Chung Yu	Chin-Chung Yu
C-P-146	Study on preparation and properties of composite photocatalyst γ -Fe ₂ O ₃ /g-C ₃ N ₄ by one-step simple mechanical method	Jinfen Niu	Xi'an University of Technology, China	Jin-Fen Niu, Kai Wang, Zi-Qi Zhang, Zhang-Tengfei Ma, Bing-Hua Yao, Xiao-Jiao Yu	Jin-Fen Niu
C-P-148	Adhesive strength estimation of film-type patterned active matrix OLED devices by using virtual crack closure technique	Chang-Chun Lee	National Tsing Hua University, Taiwan	Chang-Chun Lee, Chi-Wei Wang	Chang-Chun Lee
C-P-163	Study of microstructural changes of optical active ZnO, Lu ₂ O ₃ , Y ₂ O ₃ films doped with rare earth after pulsed laser annealing	Morgane Poupon	Fyzikální ústav AV ČR, Czech Republic	M. Poupon, S.Havlova, J.Remsa, M.Novotny, L. Fekete, P. Hruska, P. Fitl, L. Volfova, V. Kiisk, R. Jaaniso	Morgane Poupon
C-P-165	Oxidation of ScN films and effect on these properties	Joris More-Chevalier	Academy of Sciences of the Czech	Joris More-Chevalier, Stanislav Cichoň, Lukáš Horák, Morgane Poupon,	Joris More-Chevalier

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			Republic, Czech Republic	Ladislav Fekete, Jiří Bulíř, Ján Lančok.	
C-P-168	Millimeter-sized 2D crystals by capping vapor-liquid-solid reaction	Fang-Yuan Lin	Institute of Atomic and Molecular Sciences, Academia Sinca, Taiwan	Fang-Yuan Lin, Mao-Feng Tseng, Ming-Chiang Chang, Po-Hsun Ho, Po-Wen Chiu, Chun-Wei Chen, Cheng-Ying Chen, Kuei-Hsien Chen, Li-Chyong Chen	Cheng-Ying Chen
C-P-180	IGZO resistive switching layer for RRAM devices on the glass substrate	Shu-Hao Chang	AU Optronics, Taiwan	Shu-hao Chang, Chien-Chung Lin, Kai-Jhih Gan, Jennifer Hsiao, Po-Tsun Liu	Jennifer Hsiao
C-P-185	The study of the novel patterned sapphire substrate applied for enhancing the efficiency of the GaN-based light-emitting diodes	Shih-Chieh Hsu	Tamkang University, Taiwan, Taiwan	Szu-Han Chao, Shih-Chieh Hsu, Rudder Wu	Shih-Chieh Hsu
C-P-192	Effect of doping Gd on electrical properties of CeO ₂ films for resistive memory application	Yu-Teng Li	National Taipei University of Technology, Taiwan	Li-Yu Teng · Sea-Fue Wang · An-Cheng Sun	Sea-Fue Wang
C-P-214	Synthesis, luminescence properties and theoretical calculations of La ₅ BSi ₂ O ₁₃ :Dy ³⁺ phosphor coatings for light-emitting diodes	Wei-Ren Liu	Chung Yuan Christian University, Taiwan	Chia-Hung Chao, Wan-Chi Ni, Chun-Ting Chen, Bor Kae Chang, Chia-Hung Huang, Cheng-Yuh Su, Wei-Ren Liu	Wei-Ren Liu
C-P-216	Resistive switching in Y ₂ O ₃ -doped ZrO ₂ epitaxial thin films	Tadashi Shiota	Okayama University, Japan	Tadashi Shiota, Koshi Futatsumori, Ryo Shirata, Osamu Sakurai, Kazuo Shinozaki	Tadashi Shiota
C-P-221	Earth-abundant tin monosulfide (SnS) thin film solar cells by vapor transport	Thi Thong Ho	Institute of Atomic and Molecular	Ho Thi Thong, Cheng-Ying Chen,	Kuei-Hsien Chen

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	deposition		Sciences, Academia Sinica, Taiwan	Szu-Yuan Chen, Kuei-Hsien Chen, Li-Chyong Chen	
C-P-289	Electronic and material properties of amino-functionalized graphene oxide quantum dots	Nidhi Puri	University of Delhi, India	Nidhi Puri, R. P. Tandon, Ajit K. Mahapatro	Ajit K. Mahapatro

List of papers for Poster Session (II) on Tuesday, November 19, 2019

Presenters are required to stand near their poster from 16:00-17:30 on 11/19 (Tuesday). Posters must be removed after the closing time by their respective presenters. The provided poster boards measure 2.1 m in height and 0.9 m in width. Posters are recommended to be A0 size in portrait orientation (841 x 1189 mm). Tapes will be provided to attach your posters to the boards.

Poster Number	Title	Author name	Affiliation	Co-authors	Corresponding Author
Symposium C-1: Semiconductor, optoelectronic and flexible device films					
C-P-46	Effect of Cu addition on the properties of RF magnetron sputtered Cu ₂ O thin films	Boen Houng	I-Shou University, Taiwan	Boen Houng, Jhih Kai Wu, Peng Chieh Yeh, Chen Kai Sun	Boen Houng
C-P-52	Indium Tin Oxide films deposited by sputtering for transparent antenna	Chun-Te Wu	Da-Yeh University, Taiwan	Chun-Te Wu, Yu-Qi Wu, Yu-Sheng Kao, Da-Zhan Huang, Ying-Rong Ho, Jung-Jie Huang	Jung-Jie Huang
C-P-68	Preparation and properties of Ag-Cu ₂ O composite thin films for degradation of methylene blue	Yu-Chen Wei	Xi'an University of Technology, China	Xiao-Jiao Yu, Yu-Chen Wei, Li-Bo Wang, Jin-Fen Niu, Jie Zhao, Jian Zhang, Ning-Ning Zhao, Jun-Peng Li, Binghua Yao	Xiao-Jiao Yu
C-P-74	Fabrication of 2D-MoS ₂ nanosheets decorated electrospun PVDF nanofiber membranes as efficient and recyclable piezocatalyst for oxytetracycline degradation	Wei Ma	Xi'an University of Technology, China	Wei Ma, Binghua Yao	Binghua Yao
C-P-75	Development of large-area perovskite solar cell by blade coating	Yuan-Wen Hsiao	National Cheng Kung University, Taiwan	Yuan-Wen Hsiao, Jia-Ming Lin, Shih-Hsiung Wu, Chuan-Feng Shih, Yung-Liang Tung	Chuan-Feng Shih
C-P-77	Aluminium oxide passivation films by liquid phase deposition for TiO ₂	Jun-Xiang Zhang	Da-Yeh University, Taiwan	Chien-Sheng Huang, Yu-Han Chang, Che-Chun Lin, Jung-Jie Huang	Jung-Jie Huang

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Poster Number	Title	Author name	Affiliation	Co-authors	Corresponding Author
	ultraviolet solid-liquid heterojunction photodetectors				
C-P-78	effect of process conditions on top surface structure of GaN-based LEDs for enhancing light extraction efficiency	Fu-Der Lai	National Kaohsiung University of Science and Technology, Taiwan	Fu-Der Lai	Fu-Der Lai
C-P-81	Fabrication and characterization of microcavity OLED with CaF ₂ /ZnS distributed Bragg reflector	Takuya Kitabayashi	Kitami Institute of Technology, Japan	Takuya Kitabayashi, Teruyuki Asashita, Naoya Satoh, Takayuki Kiba, Midori Kawamura, Yoshio Abe, Kyung Ho Kim	Takayuki Kiba
C-P-84	Characterization of Ag/ZnS/Ag multilayered film as plasmonic electrode for OLED	Masashi Ohara	Kitami Institute of Technology, Japan	Masashi Ohara, Takayuki Kiba, Midori Kawamura, Yoshio Abe, Kyung Ho Kim	Takayuki Kiba
C-P-85	Stability improvement of Ag thin-film electrode for OLED on flexible substrate	Teruyuki Asashita	Kitami Institute of Technology, Japan	Teruyuki Asashita, Naoya Satoh, Takuya Kitabayashi, Takayuki Kiba, Midori Kawamura, Yoshio Abe, Kyung Ho Kim	Takayuki Kiba
C-P-86	Structural, photoluminescence and resistive switching properties of Cu-doped ZnO thin films on stainless steel substrates	Ming-Cheng Kao	Hsiuping University of Science and Technology, Taiwan	Ming-Cheng Kao, Hone-Zern Chen, Kai-Huang Chen, Jen-Bin Shi, Meng-Che Li, Wen-Yan Luo	Ming-Cheng Kao

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Poster Number	Title	Author name	Affiliation	Co-authors	Corresponding Author
C-P-96	Conductivity study of tin oxide prepared by spray pyrolysis with tin chloride precursor	Chien-Yu Lai	National University of Kaohsiung, Taiwan	Chien-Yu Lai, Chun-An Chen, Mu-Chun Wang, Wen-Jen Lin, Kuo-Jen Chang, Hsin-Hui Kuo, David Jui-Yang Feng, Ming-Chang Shih, Wen-How Lan	Wen-How Lan
C-P-239	The Influence of Cu ₂ O film structure for Photovoltage of Cu ₂ O/TiO ₂ Thin Films	Keisuke Ishizaka	Kogakuin University, Japan	Keisuke Ishizaka, Ichiro Takano	Keisuke Ishizaka
C-P-240	Seed layer annealing effect on resistive switching characteristics of ZnO-nanorods conducting bridge random access memory	Pragya Singh	National Chiao Tung University, Taiwan	Pragya Singh, Firman Simanjuntak, Amit Kumar, T.Y Tseng	Pragya Singh
C-P-245	The semiconductors properties of CuO thin film under doping of NiO thin film by dc reactive magnetron sputtering	Anmar Alhattab	Kogakuin University, Japan	Anmar Alhattab, Haider Ali, Ichiro Takano	Anmar Alhattab
C-P-247	The improvement of optoelectrical characteristics for organic memory by adding photo sensitive layers	Yu-Wu Wang	National Chang Hua University of Education, Taiwan	Yu-Wu Wang, Yu-Heng Cheng, Ne-Xing Ho	Yu-Wu Wang
C-P-250	High performance P-channel tunnel thin-film transistor with TiN/HfZrO gate stack	Ming-Jhe Li	National Sun Yat-sen University, Taiwan	Ming-Jhe Li, Shen-Ming Luo, Jiun-Hung Lin, Cai-Jia Tsai, William Cheng-Yu Ma	William Cheng-Yu Ma
C-P-254	Substrate heating temperature effect on wettability of NiFe ₂ O ₄ films	Yong-Han Hao	National Taipei University of Technology, Taiwan	Yong-Han Hao, Sheng-Kai Tong, Da-Hua Wei	Yong-Han Hao
C-P-261	Manipulation of the surface roughness and resistivity of the highly	Chien Chang	National University of Kaohsiung, Taiwan	Kai-Shun Yang, Chien Chang, Chin-Chung Yu	Chin-Chung Yu

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	textured In ₂ O ₃ (111) film by an ultrathin In(101) seeding layer				
C-P-262	The investigation of copper powder properties on cold sprayed coatings	Bang-Yen Chou	Plus Metal Tech Co., Ltd, Taiwan	Bang-Yen Chou, Fu-Jun Wei	Fu-Jun Wei
C-P-268	High performance p-Type thin-film transistor with stannous oxide channel	Yu-Chuan Chiu	National Chiao-Tung University, Taiwan	Yu-Chuan Chiu, Po-Tsun Liu, Dun-Bao Ruan, Yun-Ru Shih, Yu-Tung Hsiao, Kai-Jhih Gan	Po-Tsun Liu
C-P-273	The interlayer effect for photocatalytic properties of TiO ₂ /ZnO/Cu ₂ O thin films	Akihiro Joichi	Kogakuin University, Japan	Akihiro Joichi, Ichiro Takano	Akihiro Joichi
C-P-277	Metal thin film adhesion evaluation of surface modified PTFE by low-pressure	Koki Iesaka	Kogakuin University, Japan	Koki Iesaka, Ichiro Takano	Koki Iesaka
C-P-281	Impacts of operation mode on polycrystalline-silicon nanosheet thin-film transistor with double gate structure	Shen-Ming Luo	National Sun Yat-sen University, Taiwan	Shen-Ming Luo, Ming-Jhe Li, Jiun-Hung Lin, Cai-Jia Tsai, William Cheng-Yu Ma	William Cheng-Yu Ma
C-P-284	Characteristics of alternating current impedance for p-type Si/n-type β-FeSi ₂ heterojunctions produced by employing radio-frequency magnetron sputtering	Rawiwon Chaleawpong	King Mongkut's Institute of Technology Ladkrabang, Thailand	Rawiwon Chaleawpong, Nathaporn Promros, Peerasil Charoenyuenyao, Nattakorn Borwornpornmetee, Pattarapol Sittisart, Tonnum Sujjaritturakarn, Adison Nopparuchikun, Phongsaphak Sittimart, Yūki Tanaka, Tsuyoshi Yoshitake	Nathaporn Promros
C-P-285	Layered graphene composite for flexible bioelectrical sensor applications	Yinying Sheng	Institute of Advanced Wear & Corrosion Resistant	Yinying Sheng, Tzu-Ting Huang, Wei Li, Chi-Hsien Huang	Chi-Hsien Huang

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			and Functional Materials, Jinan University, China		
C-P-292	Comparison of SiC _x N _y barriers using different deposition precursors capped on porous low-dielectric-constant SiOCH dielectric film	Yi-Lung Cheng	National Chi-Nan University, Taiwan	Yi-Lung Cheng, Yu-Lu Lin, Chih-Yen Lee, Wei-Yuan Chang, Jihperng Leu, Giin-Shan Chen, Jau-Shiung Fang	Yi-Lung Cheng
C-P-293	Comparison of Cu and Co integration with porous carbon-doping dielectric material	Yi-Lung Cheng	National Chi-Nan University, Taiwan	Yi-Lung Cheng, Hong-Chang Huang, Chih-Yen Lee, Giin-Shan Chen, Jau-Shiung Fang	Yi-Lung Cheng
C-P-298	Layout effectiveness of embedded poly Si Wall on 7 nm FinFET architecture with strain relaxed buffer design	Pei-Chen Huang	National Tsing Hua University, Taiwan	Chang-Chun Lee, Pei-Chen Huang	Chang-Chun Lee
C-P-299	Impact of low-energy ions on plasma deposition of cubic boron nitride films for electronic applications	Kungen Teii	Kyushu University, Japan	Kungen Teii, Seiichiro Matsumoto	Kungen Teii
C-P-300	Efficient chemical metal deposition of selective plating for freeform circuitry by 3D printed plastic structure	Guan-Cheng Tong	National Taiwan University of Science and Technology, Taiwan	Guan-Cheng Tong, Hsueh-Yu Chen, Chen-Hao Wang	Chen-Hao Wang
C-P-317	Properties of Al doped ZnO thin films deposited using spatial atomic layer deposition technique	Yue Cui	Xiamen University of Technology, China	Yue Cui, Chia-Hsun Hsu, Xiao-Ying Zhang, Ying-Chao Xu, Shui-Yang Lien, Wen-Zhang Zhu	Shui-Yang Lien
C-P-323	Exploring the transparent conducting property of ZnO-based multilayer coatings prepared using HiPIMS deposition	Yu-Hsuan Hsu	National Chung Hsing University, Taiwan	Yu-Hsuan Hsu, Han-Wen Liu, Wan-Yu Wu	Wan-Yu Wu

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C-P-336	Ferroelectric polarization characteristics of ferroelectric hafnium aluminum oxide capacitor by using hafnium nitride electrode	Hsiu-Ming Liu	National Taipei University of Technology, Taiwan	Yu-Chi Fan, Tsung-Ming Lee, Chien-Liang Lin, Hsiu-Ming Liu, Sheng Lee, Zi-You Huang, Wei-Dong Liu, Shih-An Wang, Zhi-Wei Zheng, Chun-Hu Cheng, Hsiao-Hsuan Hsu	Hsiao-Hsuan Hsu
C-P-337	A comparative study of metal-ferroelectric-metal devices using doped- and stacked- hafnium zirconium oxides	Sheng Lee	National Taipei University of Technology, Taiwan	Tsung-Ming Lee, Chien-Liang Lin, Yu-Chi Fan, Sheng Lee, Wei-Dong Liu, Hsiu-Ming Liu, Zi-You Huang, Zhi-Wei Zheng, Shih-An Wang, Chun-Hu Cheng, Hsiao-Hsuan Hsu	Hsiao-Hsuan Hsu
C-P-343	Polarization reversal characteristics of ferroelectric polymeric film formed on ozonized silver-paste electrode	Sheik Abdur Rahman	Jeju National University, Republic of Korea	Sheik Abdur Rahman, Woo Young Kim	Woo Young Kim
C-P-360	Exciton control of strain-free GaAs/Al _{0.3} Ga _{0.7} As quantum dots grown by droplet epitaxy	Inah Yeo	Dielectrics and Advanced Matter Physics Research Center, Republic of Korea	Inah Yeo, Jong Su Kim, Jin Dong Song, Il Ki Han	Inah Yeo
C-P-381	P-type nitrogen-doped zinc oxide films prepared by magnetron sputtering	Faizan Husian	Ming Chi University of Technology, Taiwan	F. Husian, J. Y. Chen, J. S. Cherng	J. S. Cherng
C-P-395	Field emission characteristics of metal nanoparticle-coated carbon nanostructures	Yoshimine Kato	Kyushu University, Japan	Y. Kaneko, K. Terada, Y. Kato, K. Teii	Yoshimine Kato
C-P-041	Top-emission OLED with ITO top-electrode films deposited by a low-damage facing-target type sputtering method	Yoji Yasuda	Tokyo Polytechnic University, Japan	Yoji Yasuda, Shin-ichi Kobayashi, Takayuki Uchida, Yoichi Hoshi	Yoji Yasuda

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C-P-410	The effect of precursor molarities on optical and structural characteristics of Sol-gel processed MgZnO thin films	Ahram Yeom	Korea Maritime and Ocean University, Republic of Korea	Ahram Yeom, Hong Seung Kim, Nak Won Jang, Young Yun, Ahn Hyung Soo	Hong Seung Kim
C-P-414	Improving the performance of P3HT:PC71BM photodetector by incorporating the small molecules	Azzuliani Supangat	University of Malaya, Malaysia	Afiq Anuar, Nur Adilah Roslan, Shahino Mah Abdullah, Tahani M. Bawazeer, Nourah Alsenany, Mohammad S. Alsoufi, Azzuliani Supangat	Azzuliani Supangat
C-P-420	Transparent diffusive coplanar surface barrier discharge (DCSBD) and its use in bactericide and low temperature oxidation of Ti alloy	Shi-Wei Huang	Ming Chi University of Technology, Taiwan	S. W. Huang, J. H. Hsieh	J. H. Hsieh
C-P-424	Heteroepitaxial growth of TiN on diamond (001) by reactive sputtering	Po-Hong Liu	National Chiao Tung University, Hsinchu, Taiwan	P. H. Liu, K. A. Chiu, Y. S. Fang, L. Chang	P. H. Liu
C-P-429	High transparency and crystallinity zinc oxide films prepared by spatial atomic layer deposition with diethylzinc and water precursors	Zhi-Tao Sun	Xiamen University of Technology, China	Zhi-Tao Sun, Chia-Hsun Hsu, Xiao-Ying Zhang, Ying-Chao Xu, Shui-Yang Lien, Wen-Zhang Zhu	Shui-Yang Lien
C-P-432	Characteristics of CZTS thin films depending on the amount of sulfur supplied in rapid thermal process	Chan Kim	Kyungpook National University, Republic of Korea	Chan Kim, Sungwook Hong	Sungwook Hong
C-P-434	The band gap change of Cu ₂ ZnSnS ₄ thin film by Cu ions implantation	Chan Kim	Kyungpook National University, Republic of Korea	Chan Kim, Sungwook Hong	Sungwook Hong
C-P-435	Properties of SrMnO ₃ films grown on the SrTiO ₃ substrate by RF - sputtering with off-axis angle	Rui He	Gachon University, Republic of Korea	Rui He, Chung Wung Bark	Chung Wung Bark

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C-P-436	High-quality periodic-doped lanthanum-modified bismuth-titanate thin films grown by RF sputtering	Rui Tang	Gachon University, Republic of Korea	Rui Tang, Chung Wung Bark	Chung Wung Bark
C-P-442	A simulation study for multilayer two-dimensional material field-effect transistor with ferroelectric HZO	Yun-Fang Chung	National Chung Hsing University, Taiwan	K.-T. Chen, Y.-F. Chung, S. T. Chang	S. T. Chang
C-P-444	Enhancing the performance of mesoscopic perovskite solar cell by surface activation on the titanium dioxide (TiO ₂) electrode	Maro Kim	Gachon University, Republic of Korea	Maro Kim, Chung Wung Bark	Chung Wung Bark
C-P-448	Influence of anneal condition on electrical properties of ITO thin films	Syogo Iwana	Tokyo University of Science, Japan	Syogo Iwana, Xinwei Zhao	Xinwei Zhao
C-P-449	High-performance graphene field-effect transistor biosensors by interfacing chemistry	Oh Seok Kwon	Korea Research Institute for Bioscience and Biotechnology (KRIBB), Republic of Korea	Chul Soon Park, Oh Seok Kwon	Oh Seok Kwon
C-P-450	Microfluidic based dual-channel GFET sensor for rapid bacteria detection	KyungHo Kim	Korea Research Institute for Bioscience and Biotechnology (KRIBB), Republic of Korea	Kyung Ho Kim, Sung Eun Seo, Jiyeon Lee	Oh Seok Kwon
C-P-452	Graphene micropattern nano-hybrids for the detection of HIV with high performance based on the flexible fluidic FET sensor	Sung Eun Seo	Korea Research Institute for Bioscience and Biotechnology (KRIBB), Republic of Korea	Sung Eun Seo, Jiyeon Lee, Kyung Ho Kim, Oh Seok Kwon	Oh Seok Kwon
C-P-453	Artificial human senses using natural receptor conjugated conducting nanomaterial sensors	Park Seon Joo	Korea Research Institute for Bioscience and Biotechnology (KRIBB), Republic of Korea	Seon Joo Park, Oh Seok Kwon	Oh Seok Kwon

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C-P-454	FET Based Depression Sensor Development	Jiyeon Lee	Korea Research Institute for Bioscience and Biotechnology (KRIBB), Republic of Korea	Jiyeon Lee, Kyung Ho Kim, Sung Eun Seo, Oh Seok Kwon	Oh Seok Kwon
C-P-456	Development of new interfacing compounds for ultra-stable biosensors	Jinyeong Kim	Korea Research Institute for Bioscience and Biotechnology (KRIBB), Republic of Korea	Jinyeong Kim, Oh Seok Kwon	Oh Seok Kwon
C-P-458	Structural, morphological and wetting attributes of β -FeSi ₂ thin films formed via radio-frequency magnetron sputtering	Peerasil Charoenyuenyao	King Mongkut's Institute of Technology Ladkrabang, Thailand	Peerasil Charoenyuenyao, Nathaporn Promros, Rawiwan Chaleawpong, Pattarapol Sittisart, Nattakorn Borwornpornmetee, Prathan Prachopchok, Phongsapak Sittimart, Yuki Tanaka, Tsuyoshi Yoshitake	Nathaporn Promros
C-P-463	Understanding the defect property of kesterite based (Ag _x Cu _{1-x}) ₂ ZnSnSe ₄ thin film solar cell: A study by photoluminescence spectroscopy with device performances.	Shaham Quadir	National Taiwan University, Taiwan	Shaham Quadir, Cheng-Ying Chen, Szu-Yuan Chen, Kuei-Hsien Chen, Li-Chyong Chen	Cheng-Ying Chen
C-P-468	Undoped and doped ZnO-based thin films by a solution process: preparation and characterization	Trinh Bui	Vietnam National University, Vietnam	Bui Nguyen Quoc Trinh, Le Thi Hien, Nguyen Quang Hoa, Nguyen Hoang Luong	Bui Nguyen Quoc Trinh
C-P-470	Developing bio-chip device to count CD ⁴⁺ cells	Nam Nguyen Hoang	VNU University of Science, Vietnam	Nguyen Hoang Nam, Nguyen Hoang Luong, Chu Duc Trinh, Bui Thanh Tung, Nguyen Thi Van Anh, Pham Thu Huong	Nguyen Hoang Nam

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C-P-476	The development of soft X-Ray reflectivity for thin films thickness measurement in semiconductor industry	Guo-Dung Chen	Industrial Technology Research Institute, Taiwan	Bo-Ching He, Guo-Dung Chen, Chun-Ting Liu, Wei-En Fu, Wen- Li Wu	Bo-Ching He
C-P-485	Ag-film color filters for PVSK color photo-sensors	Ming-Tsang Cheng	Ming Chi University of Technology, Taiwan	Ming-Tsang Cheng, Jong-Hong Lu, Tsung-Han Tsai, Hsiang-Lin Hsu, Bing-Huang Jiang, Chih-Ping Chen	Jong-Hong Lu
C-P-486	Hot carrier stress characterization of tunnel thin-film transistor	Cai-Jia Tsai	National Sun Yat-sen University, Taiwan	Cai-Jia Tsai, Shen-Ming Luo, Ming-Jhe Li, Jiun-Hung Lin, William Cheng-Yu Ma	William Cheng-Yu Ma
C-P-489	High-speed, low-defect and unidirectional fabrication of silicon nanowire arrays assisted with electric field	Pin-Ju Chien	National Cheng-Kung University, Taiwan	Pin-Ju Chien, Ta-Cheng Wei, Chia-Yun Chen	Chia-Yun Chen
C-P-491	Microstructure and electronic properties of ultra-nano-crystalline diamond thin films	Sekhar C. Ray	University of South Africa, South Africa	R.W, Thoka, S. J. Moloi, Sekhar C. Ray, W. F. Pong	Sekhar Chandra Ray
C-P-492	Long-term stable heterostucture-based photodetector using Cu-doped ZnO/ZnS nanorod arrays	Ta-Cheng Wei	National Cheng Kung University, Taiwan	Ta-Cheng Wei, Po-Hsuan Hsiao, Chia-Yun Chen	Chia-Yun Chen
C-P-495	Multi-layer organic functional coating optical films fabricated by cold plasma of hydrocarbon fluorocarbon polymerization	Shu-Chuan Liao	Da-Yeh University, Taiwan	Shu-Chuan Liao , Ya-Wen Hsu, Jin -Yu Gu, Jian Cyun Yu, Yun Lin Lyu, Ko-Shao Chen	Shu-Chuan Liao
C-P-510	Self-growth copper oxide for improving solder wettability by air atmospheric pressure plasma jet	Wei-Siang Lin	National Taiwan University of Science and Technology, Taiwan	Wei-Siang Lin, Sagung Dewi Kencana, Yu-Lin Kuo, Wallace Chuang, Eckart Schellkes, Yee-Wen Yen	Wei-Siang Lin

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C-P-512	Epitaxial growth of zirconium nitride grown on Si substrate by reactive magnetron sputtering	Thi Hien Do	National Chiao Tung University, Taiwan	Thi Hien Do, Yih-Yang Tseng, Kun-An Chiu, Li Chang	Li Chang
C-P-515	Multiple-mode metamaterial perfect absorber for stereo bioimaging	Krishnakant Tiwari	Ming Chi University of Technology, Taiwan	Tsung-Yu Huang, Krishnakant Tiwari	Tsung-Yu Huang
C-P-517	Effect of Al composition on low resistance of ITO/AgAl/ITO flexible transparent electrodes	Cheng-Ying Lin	Ming Hsin University of Science and Technology, Taiwan	Cheng Ying Lin, Zhao Fang Luo, Meng Hsuan Tsai, Yang Kuo Kuo, Po Hsueh Cheng, Cheng-Hsiung Peng, Pang-Shiu Chen	Pang-Shiu Chen
C-P-518	Thermal stability and optical properties of silver-based low-emissivity multilayer coatings for energy-saving applications	Du-Cheng Tsai	National Chung Hsing University, Taiwan	Du-Cheng Tsai, Fuh-Sheng Shieu	Fuh-Sheng Shieu
C-P-526	Electrical properties of Al-doped SrTiO ₃ thin films grown by atomic layer deposition	Woongkyu Lee	Myongji University, Republic of Korea	Woongkyu Lee ¹ , Sang Hyeon Kim, Cheol Hyun An, Yumin Kim, Dae Seon Kwon, Dong-Gun Kim, Soon Hyung Cha, Seong Tak Cho, Junil Lim, Cheol Seong Hwang	Cheol Seong Hwang
C-P-536	Atomic layer deposition of p-type Tin monoxide using Sn(dmamb) ₂	Jeong Hwan Han	Seoul National University of Science and Technology, Republic of Korea	Myeong Gil Chae, Bo Keun Park, Taek-Mo Chung, Jeong Hwan Han	Jeong Hwan Han
C-P-542	Characteristics of pn junction formed by plasma treatment on molybdenum disulfide	Wei Li	National Taiwan University of Science and Technology, Taiwan	Wei Li, Jeng-Yu Ke, Chen-Hong Ciou, Yung-Jui Huang, Shunjiro Fujii, Shin-ichi Honda, Huan-Chun Wang, Pao-Hung	Kuei-Yi Lee

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				Lin, Liang-Chiun Chao, Kuei-Yi Lee	
C-P-543	Fabrication of n-doped diamond films for electron field emission applications	Jiun Yin	National Taiwan University of Science and Technology, Taiwan	Jiun-Yin, Chi-Wen Liu, Yin-Tung Sun, Chii-Ruey Lin	Yin-Tung Sun
C-P-562	Demonstration of vertically integrated complementary thin-film transistor inverter with nanosheet channel film	Jiun-Hung Lin	National Sun Yat-sen University, Taiwan	Jiun-Hung Lin, Ming-Jhe Li, Shen-Ming Luo, Cai-Jia Tsai, William Cheng-Yu Ma	William Cheng-Yu Ma
C-P-581	Growth of Ga ₂ O ₃ thin films by RF magnetron sputtering for fabricating deep ultraviolet photodetectors	Han-Chieh Lee	Da-Yeh University, Taiwan	Jun-Yu Li, Han-Chieh Lee, Yong-Jia Syu, Yi-Hsien Lin, Feng-Min Lai, Sin-Liang Ou	Sin-Liang Ou
Symposium D: Tribological and protective coatings					
D-OP-166	The oxidation behavior of ZrO ₂ -coated Zircaloy-4 with ZrN Interlayer	I-Sheng Ting	National Tsing Hua University, Taiwan	I-Sheng Ting, Hsiao-Ming Tung, Jia-Hong Huang	Jia-Hong Huang
D-P-5	Tribological behavior and energy dissipation characteristics of hybrid nanoparticles-reinforced HPMC composites in sliding system	Shih-Chen Shi	National Cheng Kung University, Taiwan	Shih-Chen Shi, Shia-Seng Pek, Xiao-Ning Tsai	Shih-Chen Shi
D-P-25	Why choose an optimized interlayer to improve the mechanical properties and impact fatigue resistance of AlTiCr(Si)N hard coatings?	Yu-Ju Yang	National Formosa University, Taiwan	Yu-Ju Yang, Yin-Yu Chang, Shi -Yao Weng	Yin-Yu Chang
D-P-66	Effect of insert mid-frequency pulses on the microstructural and mechanical properties of AlTiN coatings prepared by superimposed HiPIMS process	Fu-Chi Yang	Ming Chi University of Technology, Taiwan	Fu-Chi Yang, Ching-Yen Lin, Jian-Fu Tang, Chi-Lung Chang	Chi-Lung Chang
D-P-126	Effect of electrical parameters and electrolyte concentration on dark	Yu-Fang Hong	National Taiwan University, Taiwan	Yu-Fang Hong, Wen-Xin Wu, Hsin-Chih Lin	Hsin-Chih Lin

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	micro-arc oxidation coatings on pure titanium				
D-P-144	Preparation and characterization of a Ni-Al ₂ O ₃ hybrid coating on cast iron	Jingzeng Zhang	University of Windsor, Canada	Jiayi Sun, Jingzeng Zhang, Chen Zhao, Ran Cai, Xueyuan Nie	Xueyuan Nie
D-P-179	Enhancement of nano-hardness and surface wettability of CrN thin films by tuning reaction gas density	Sheng-Kai Tong	National Taipei University of Technology, Taiwan	Sheng-Kai Tong, Yong-Han Hao, Ming-Ru Wu, Da-Hua Wei	Da-Hua Wei
D-P-227	Oxidation resistance of chromium coatings deposited using hot and cooled target magnetron sputtering	Egor Kashkarov	National Research Tomsk Polytechnic University, Russia	Egor Kashkarov, Dmitrii Sidelev, Maxim Syrtanov, Viktor Kudiiarov	Egor Kashkarov
D-P-255	Mechanical and high temperature tribological performance of multi-component nitride coatings (AlCrNbSiTiMo)N	Wei-Li Lo	National Tsing Hua University, Taiwan	Wei-Li Lo, Jenq-Gong Duh	Jenq-Gong Duh
D-P-269	Role of tungsten dopants in indium oxide thin-film transistor on radiation hardness technology	Yun-Ru Shih	National Chiao Tung University, Taiwan	Yun-Ru Shih, Po-Tsun Liu, Dun-Bao Ruan, Kai-Jhih Gan, Yu-Chuan Chiu, Simon M. Sze	Po-Tsun Liu
D-P-272	Effect of ultraviolet illumination assist low temperature annealing process for indium tungsten zinc oxide thin-film transistor	Yu-Tung Hsiao	National Chiao Tung University, Taiwan	Yu-Tung Hsiao, Po-Tsun Liu, Dun-Bao Ruan, Yu-Chuan Chiu, Kai-Jhih Gan, Simon M. Sze	Po-Tsun Liu
D-P-297	Effect of the oxygen contain of TiN _x O _y film depositing using high power impulse magnetron sputtering	Min-Shiu Wu	Da-Yeh University, Taiwan	Min-Shiu Wu, Wan-Yu Wu	Wan-Yu Wu
D-P-303	Nanomechanical properties of Bi ₂ Se ₃ thin films deposited on InP (111) substrates	Sheng-Rui Jian	I-Shou University, Taiwan	Phuoc Huu Le, Sheng-Rui Jian, Chih-Wei Luo, Jenh-Yih Juang, Jihperng Leu	Sheng-Rui Jian
D-P-315	Tribological behavior of (Ti-Zr-Hf-Nb-V)N thin film at elevated temperature	Sheng-Yu Hsu	National Tsing Hua University, Taiwan	Sheng-Yu Hsu, Jenq-Gong Duh	Jenq-Gong Duh

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D-P-321	Investigation on the tribological characteristics of non-equimolar high entropy nitride thin film (CrAlNbSiV)N at high temperature	Yu-Chia Lin	National Tsing Hua University, Taiwan	Yu-Chia Lin, Jenq-Gong Duh	Jenq-Gong Duh
D-P-362	Optimization of the deposition processing of MoN _x thin films by design of experiment and single variable (nitrogen flow rate) methods	Hung-Hsiang Liu	National Tsing Hua University, Taiwan	Hung-Hsiang Liu, Wei-Zen Kang	Jia-Hong Huang
D-P-366	Coloration and mechanical property evaluation of TiN _x O _y coatings grown by a superimposed high power impulse magnetron sputtering	Kuan-Yu Hung	Ming Chi University of Technology, Taiwan	Kuan-Yu Hung, Jyh-Wei Lee	Jyh-Wei Lee
D-P-373	Sol-gel-derived interlayer for improving the adhesion between DLC and aluminum alloy substrate	Chia-Ying Su	National Cheng Kung University, Taiwan	Wen-Yan Jhang, Chia-Ying Su, Jyh-Ming Ting	Jyh-Ming Ting
D-P-374	Cutting performance of multilayered AlTiN/CrMoN hard coatings	Yen-Chen Chao	National Formosa University, Taiwan	Yen-Chen Chao, Yin-Yu Chang, Chih-Cheng Chuang	Yin-Yu Chang
D-P-382	Effect of Ti interlayer thickness on mechanical properties and wear resistance of TiZrN coatings on AISI D2 Steel	Yu-Wei Lin	National Applied Research Laboratories, Taiwan	Yu-Wei Lin, Po-Chun Chih, Ge-Ping Yu, Jia-Hong Huang	Jia-Hong Huang
D-P-394	Effect of power supplies on the microstructure and corrosion resistance of AZ31 magnesium alloys treated by plasma electrolytic oxidation	Yu-Cyun Su	National Taipei University of Technology, Taiwan	Yu-Cyun Su, Chien-An Yen, Yung-Chin Yang, Bih-Show Lou, Jyh-Wei Lee	Jyh-Wei Lee
D-P-418	Bias voltage effect on the microstructure and mechanical properties of CrSi-doped DLC films synthesized by cathodic-arc activated deposition process.	Wei-Chih Chen	National Chung Hsing University, Taiwan	Wei-Chih Chen, Chi-Lung Chang, Wei-Yu Ho, Da-Yung Wang, Fuh-Sheng Shieu	Wei-Chih Chen

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D-P-473	Effect of Ti interlayer and TiN transition layer on stress relief and mechanical properties of TiZrN/TiN/Ti trilayer thin films on D2 steel substrate	Chiu Yi-De	National Tsing Hua University, Taiwan	Yi-De Chiu, Bing-Siou Cai	Jia-Hong Huang
D-P-501	Formation of aluminum composite passive film on magnesium alloy by integrating sputtering and AAO processes	Chi-Liang Ko	National Taiwan University of Science and Technology, Taiwan	Chi-Liang Ko, Yu-Lin Kuo, Shih-Hsun Chen, Yan-Jie Wang, Jhao-Yu Guo, Song-Yu Chen, Tai-Chin Chiang	Yu-Lin Kuo
D-P-524	Low cycle fatigue properties of AZ 61 magnesium alloy with different surface roughness and after Cu-, Ni-B/Cu electroplating	You-Chai Shen	Chang Gung University, Taiwan	Ching An Huang, You Chai Shen, Shu Yi Chen, Yoshihiko Uematsu	Ching An Huang
D-P-528	Deposition chromium nitride coatings on SK2 tool steel by using high power impulse magnetron sputtering without additional substrate heating	Ya-Mei Tang	National Formosa University, Taiwan	Chin-Chiuan Kuo, Yu-Tse Lin, Ya-Mei Tang, Chao-Yi Pan	Chin-Chiuan Kuo
D-P-553	Ta addition effects on the structure, mechanical and thermal properties of sputtered Hf-Ta-C film	Xinlei Gu	Jilin University, China	Xinlei Gu, Lina Yang, Xiaorong Ma, Xuan Dai, Jia Wang, Mao Wen, Kan Zhang	Kan Zhang
D-P-561	Effect of MF/HiPIMS on-time ratios on the fabrication of TiN coatings using superimposed HiPIMS and MF deposition system	Wei -Ting Chen	Ming Chi University of Technology, Taiwan	Wei-Ting Chen, Yu-Wen Su, Jyh-Wei Lee	Jyh-Wei Lee
D-P-575	The coating of geopolymers on carbon fiber fabric by the flame spraying	Yen-Ting Liu	National Taipei University of Technology, Taiwan	Yen-Ting Liu, Yu-Cheng Lai, Yung-Chin Yang	Yung-Chin Yang
D-P-579	Mechanical and corrosion behaviors of plasma electrolytic oxidation	Tzu-Fang Wang	Ming Chi University of Technology, Taiwan	Chuan-Ming Tseng, Tzu-Fang Wang	Chuan-Ming Tseng

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	coating on Ti-6Al-4V alloy in aluminate-phosphate electrolyte				
D-P-580	Growth mechanism of plasma electrolytic oxidation coating on AZ31 magnesium alloy with/without KF addition	Yan-Kai Huang	Ming Chi University of Technology, Taiwan	Chuan-Ming Tseng, Yan-Kai Huang, Wei-Jie Su	Chuan-Ming Tseng
D-P-584	Developments of acoustic absorption coating by thermal spraying technique	Yu-Ming Liu	National Taipei University of Technology, Taiwan	Min-Chi Tsai, Yu-Ming Liu, I-Lun Chung, Ching-Jer Huang, Yung-Chin Yang	Yung-Chin Yang
Symposium E: Organic and biological coatings					
E-P-27	Detection of glucose in electrochemical biosensing devices with graphene oxide/graphene layered structure on ITO substrate	Min-Shin Huang	Ming Chi University of Technology, Taiwan	Min-Shin Huang, Tai-Ze Wu, Chen-Rong Jian, Chi-Hsien Huang	Chi-Hsien Huang
E-P-139	O ₂ plasma grafting of anti-biofouling hydrogels for biomedical applications	Jian-Cyun Yu	Da-Yeh university, Taiwan	Jian-Cyun Yu, Shu-Chuan Liao	Shu-Chuan Liao
E-P-140	Study of atmospheric pressure plasma jet (APPJ) on 3D-Printed light-cured resins/hydroxyapatite bioceramic scaffold for bone tissue engineering	Jin-Yu Gu	Da-Yeh university, Taiwan	Jin-Yu Gu, Shu-Chuan Liao	Shu-Chuan Liao
E-P-141	Adsorption of vitamin K ₂ from O ₂ plasma and UV-photo grafting PEG-based hydrogels at PET nonwoven	Yun Lin Lu	Da-Yeh University, Taiwan	Yun Lin Lyu, Shu-Chuan Liao	Shu-Chuan Liao

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E-P-145	Antibacterial efficiency study of silver nanoparticles supported on porous bamboo charcoal modified surfaces	Shih-Ju Liu	Da-Yeh university, Taiwan	Shih-Ju Liu, Shu-Chuan Liao	Shih Ju Liu
E-P-177	Bionic shark skin replica on PDMS substrate and MPC modification by atmospheric plasma polymerization for antibacterial and antifouling application	Yen-Ting Lin	Ming Chi University of Technology, Taiwan	Yi-Shao Ting, Yen-Ting Lin, Chia-Wei Hsiao, Yu-Wei Cheng, Ting-Yu Liu	Ting-Yu Liu
E-P-182	The growth of nanostructured hydroxyapatite coatings on Ti-6Al-4V via hydrothermal synthesis	Ping-Chun Lin	National Chung Hsing University, Taiwan	Ping-Chun Lin, Yuan-Shun Lo, Chien-Chun Chang, Chih-Liang Wang	Chih-Liang Wang
E-P-231	Effects of alloying elements (Ag,Pt) on micro-pore shapes on Ti-xNb-Ag-Pt alloys by plasma electrolytic oxidation	Hyun-Jun Kim	College of Dentistry, Chosun University, Republic of Korea	Hyun-Jun Kim, Han-Cheol Choe	Han-Cheol Choe
E-P-235	RF-sputtered HA Coatings on porous Ti-25Nb-xTa alloys	Seung-Pyo Kim	College of Dentistry, Chosun University, Republic of Korea	Seung-Pyo Kim, Geum-Bae Cho, Han-Cheol Choe	Han-Cheol Choe
E-P-251	Biomimicking nepenthes peristome replica onto PDMS substrates with zwitterionic polymers immobilized by atmospheric plasma polymerization	Yen-Ting Lin	Ming Chi University of Technology, Taiwan	Yen-Ting Lin, Yi-Shao Ting, Ting-Yu Liu	Ting-Yu Liu
E-P-264	Surface modification of Ti-6Al-4V orthopedic implant using atomic layer deposition	Wen- Bang Wang	National Taiwan University, Taiwan	Wen-Bang Wang, Hsin-Chih Lin, Yin-Yi Han, Kai-Chang Yang, Minn-Chang Chen	Hsin-Chih Lin
E-P-326	Hemocompatibility and adhesion of titanium substrates with a pyrolytic diamine-incorporated dopamine interlayer and the outmost heparin layer	Ping-Yang Huang	National Taiwan Ocean University, Taiwan	Wei-Siang Chen, Ping-Yang Huang, Wen-Yi Lin, Chi-Hsiao Yeh, Chau-Chang Chou	Chau-Chang Chou

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E-P-342	In vivo Implantation studies of surface modified TiN deposited on Ti6Al4V using HiPIMS technique	Wan-Yu Wu	Da-Yeh University, Taiwan	Shu-Chuan Liao, Zhi-Ying Chen, Yu-Hsuan Hsu, Chi-Ting Li, Cheng-Chi Hsieh, Ming-Shiun Tsai, Man-Yee Chan, Cheng-Hung Lee, Sue-Hong Wang, Shang-Kok Ng, Hsi-Kai Tsou, Wan-Yu Wu	Wan-Yu Wu
E-P-384	A stretchable and self-healable organic electrochemical transistors for sensitive and selective detection of dopamine	Hsueh-Sheng Tseng	Ming Chi University of Technology, Taiwan	Hsueh-Sheng Tseng, Bo-Cheng Ho, Yu-Sheng Hsiao	Yu-Sheng Hsiao
E-P-446	Organic bioelectronic interfaces integrated in electric cell-substrate impedance sensing system for personalized anticancer-drug screening	Chia-Hsiang Hung	Ming Chi University of Technology, Taiwan	Chia-Hsiang Hung, Wei-Ting Lin, Yu-Sheng Hsiao	Chia-Hsiang Hung
E-P-498	Atmospheric pressure plasma jet modifying poly (ethylene terephthalate) for grafting biomaterials	Tzu-Hsuan Chien	National Taiwan University of Science and Technology, Taiwan	Tzu-Hsuan Chien, Fu-Chen Kung, Yu-Lin Kuo, Kuang-Hui Chang, Chi-Liang Ko, Ju-Yen Chen, Tai-Chin Chiang	Yu-Lin Kuo
E-P-502	Polymeric microsphere on polydimethylsiloxane with drug carrier films based by atmospheric plasma jet	Tzu-Hsuan Chien	National Taiwan University of Science and Technology, Taiwan	Tzu-Hsuan Chien, Ke-Chi Fu, Fu-Chen Kung, Chi-Chang Lin, Jun-Seng Wang, Yu-Lin Kuo	Yu-Lin Kuo
E-P-503	Functionalization of pure titanium MAO coatings by surface modifications for biomedical applications	Chih-Ying Chen	National Taiwan University, Taiwan	Chih-Ying Chen, Chia-Ti Chang, Jian Cyun Yu, Yun Lin Lyu, Chun-Pin Lin, Shu-Chuan Liao	Shu-Chuan Liao
E-P-572	Effective unidirectional wetting of liquids on multi-gradient, bio-inspired	Chia Yi Lin	National Tsing Hua University, Taiwan	Che-Ni Hsu, Chia-Yi Lin, Po-Yu Chen	Po-Yu Chen

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	surfaces fabricated by 3D printing and surface modification				
E-P-577	Electrochemical modification of IrO _x /Ir film as a multifunctional bio-interface electrode	Yu-Chih Chiu	National Taipei University of Technology, Taiwan	Yu-Chih Chiu, Pu-Wei Wu, Po-Chun Chen	Po-Chun Chen
E-P-583	Development of hydroxyapatite coating on Ti6Al4V substrate using a suspension flame spraying method	Pei-Jia Lai	National Taipei University of Technology, Taiwan	Che-Shun Cheng, Pei-Jia Lai, Yung-Chin Yang	Yung-Chin Yang
Symposium F. Metallic and high-entropy alloy coatings					
F-OP-527	Microstructure and mechanical property evaluation of V-Nb-Mo-Ta-W and V-Nb-Mo-Ta-W-N _x high entropy alloy thin films	Wen-Hau Wang	National Taiwan University of Science and Technology, Taiwan	Wen-Hau Wang, Chaur-Jeng Wang, Jyh-Wei Lee	Jyh-Wei Lee
F-P-043	Microstructure and mechanical properties of AlCuNiFeCr high entropy alloy coatings by mechanical alloying	Suprianto	National Dong Hwa University, Taiwan	Suprianto, Chun-Liang Chen	Chun-Liang Chen
F-P-044	Study of WMoNbTaV refractory high entropy alloy coatings fabricated by mechanical alloying	Sutrisna	National Dong Hwa University, Taiwan	Sutrisna, Chun-Liang Chen	Chun-Liang Chen
F-P-051	Magnetic pProperties and microstructure of FePt-(Ag, C, B ₄ C) granular films	Shi-Min Weng	National Chung Hsing University, Taiwan	Shi-Min Weng, Cheng Dai, Jyun-you Chen, Ting-Wei Hsu, Lin-Chen Huang, Jai-Lin Tsai	Jai-Lin Tsai
F-P-080	Annealing effects on microstructures and characterizations of Co thin films	Yu-Chin Tseng	National Chiao Tung University, Taiwan	Yu-Chin Tseng, Jenh-Yih Juang, Huang-Wei Chang, Sheng-Rui Jian	Sheng-Rui Jian
F-P-091	Characteristics and deposition of AlCrTiVZrN high entropy alloy nitride hard coatings prepared by cathodic arc deposition	Jyun-Wei Huang	National Formosa University, Taiwan	Yin-Yu Chang, Jyun-Wei Huang	Yin-Yu Chang

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F-P-092	Influence of aluminum interlayer on optical properties of very thin silver thin film	Takuya Hirano	Kitami Institute of Technology, Japan	Takuya Hirano, Midori Kawamura, Takayuki Kiba, Yoshio Abe, Kyung Ho Kim, Takeshi Hamano	Midori Kawamura
F-P-093	Comparison of characteristics of Ag thin films deposited in different sputtering gases	Ryosuke Sagara	Kitami Institute of Technology, Japan	Ryosuke Sagara, Midori Kawamura, Takayuki Kiba, Yoshio Abe, Kyung Ho Kim	Midori Kawamura
F-P-102	Electroplating of Au-Pd Alloy Films and the Mechanical Properties	Tomoki Iriya	Tokyo Institute of Technology, Japan	Tomoki Iriya, Kyotaro Nitta, Chun-Yi Chen, Tso-Fu Mark Chang, Daisuke Yamane, Katsuyuki Machida, Kazuya Masu, Masato Sone	Tomoki Iriya
F-P-118	Electrodeposition of Cu Pillars and Its Adhesion	Chih-Hao Chang	Yuan Ze University, Taiwan	Pei-Tzu Lee, Chih-Hao Chang, Ying-Syuan Wu, Cheng-Yu Lee, Wei-Ling Chou, Hung-Cheng Liu, Cheng-En Ho	Cheng-En Ho
F-P-130	Growth and characterization of transition metal dichalcogenide by direct thinning metal film and sulfurization reaction	Po-Kai Chiu	Taiwan Instrument Research center, National Applied Research Laboratories, Taiwan	Chao-An Jong, Chien-Pao Lin, Donyau Chiang, Chien-Nan Hsiao, Po-Kai Chiu	Po-Kai Chiu
F-P-210	Effects of Nb addition on microstructures and mechanical properties of CoCrFeMnNiNbx high entropy alloy films	Yu-Shuan Liang	National Taiwan University, Taiwan	Yu-Hsuan Liang, Chia-Lin Li, Chun-Hway Hsueh	Chun-Hway Hsueh
F-P-212	Microstructures and mechanical properties of CoCrFeMnNiMox high entropy alloy films	Tzu-Hsuan Huang	National Taiwan University, Taiwan	Tzu-Hsuan Huang, Chia-Lin Li, Chun-Hway Hsueh	Chun-Hway Hsueh
F-P-271	Effect of nitrogen content on the microstructural and mechanical properties of CrTiAlZrSiN coatings	Chun-Hong Huang	Ming Chi University of Technology, Taiwan	Chun-Hung Huang, Ching-Yen Lin, Fu-Chi Yang,	Chi-Lung Chang

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	prepared by high power impulse magnetron sputtering			Jian-Fu Tang, Chi-Lung Chang	
F-P-332	Deposition and properties of Ta-Ti-Zr-based high-entropy alloy and nitride coatings	Chin-Chun Chang	National Tsing Hua University, Taiwan	Chin-Chun Chang, Shou-Yi Chang	Shou-Yi Chang
F-P-460	Reliability investigation on the interfacial reactions between Pd/Au-coated and Pd-alloyed Cu wire bonds with aluminum	Gang Lee	National Cheng Kung University, Taiwan	Gang Lee, Chen-Lu Yu, Jui-Chao Kuo, Kuo-Chang Lu	Kuo-Chang Lu
F-P-474	Mechanical property and thermal evaluation of V-Nb-Mo-Ta-W-Al high entropy alloy thin films	Yu-Tong Xiao	Ming Chi University of Technology, Taiwan	Yu-Tong Xiao, Sheng-Bo Hung, Jyh-Shiarn Cherng, Chaur-Jeng Wang, Bih-Show Lou, Jyh-Wei Lee	Jyh-Wei Lee
F-P-487	Effect of substrate bias on the microstructure and mechanical properties of TiZrNbTaFe high-entropy alloy thin films	Hsin Chao	National Taipei University of Technology, Taiwan	Hsin-Chao, Yung-Chin Yang, Bih-Show Lou, Jyh-Wei Lee	Jyh-Wei Lee
F-P-531	Effect of aluminum on surface oxidation of Ni ₂ FeCoCrAl _x high entropy alloys by atmospheric pressure plasma treatment	Chi-Ruei Huang	National United University, Taiwan	Chi-Ruei Huang, Fan-Bean Wu	Fan-Bean Wu
F-P-532	Enhancements of string tension using high-entropy alloy coatings	Ting-Ying Chiu	National Taiwan University, Taiwan	Ting-Ying Chiu, Chia-Lin Li, Wen-Shin Lee, Chun-Hway Hsueh	Wen-Shin Lee
F-P-569	Effect of brightener concentration on the self-annealing behavior and mechanical properties of electroplated Cu	Shu-Ping Yang	Yuan Ze University, Taiwan	Cheng-Hsien Yang, Shu-Ping Yang, Yu-Wei Lee, Cheng-Yu Lee, Cheng-En Ho	Cheng-En Ho
F-P-576	Electroless deposition of platinum on nickel-based superalloy	Pu-Wei Wu	National Chiao Tung University, Taiwan	Chi-Shih Chen, Cheng-Han Wu, Yi-Chieh Hsieh, Kuang-Chih Tso, Jyh-Fu Lee, Pu-Wei Wu	Pu-Wei Wu

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F-P-585	Microstructures and aging treatment of $Al_{0.5}CoCrFeNi_2$ high-entropy alloy coating by the flame spray	Pei-Cih Jhan	National Taipei University of Technology, Taiwan	Ching-Yao Cheng, Pei-Cih Jhan, Yung-Chin Yang	Yung-Chin Yang
Symposium G: Topical Symposium: theory, simulation, and modeling; quantitative surface analysis					
G-P-64	The evaluation of radio frequency butane plasma polymerized film growth in closed reactor system	Chun Huang	Yuan Ze University, Taiwan	Yin-Che Huang, Chao-Yi Chang, Chih-Wei Chien, Chun Huang	Chun Huang
G-P-97	Numerical simulation of charged particle in cathodic arc plasma	Risa Yamashita	Graduate School of System Informatics, Kobe University, Japan	Risa Yamashita, Hideyuki Usui, Yohei Miyake, Kenji Yamamoto	Risa Yamashita
G-P-249	Theoretical investigation of combined stress fluid as roll-over-coater	Woo Young Kim	Jeju National University, Republic of Korea	Tareq Manzoor, Muhammad Zafar, Shaikat Iqbal, Kashif Nazar, Muddassir Ali, Mahmood Saleem, Woo Young Kim	Woo Young Kim
G-P-266	Effect of metal nanoparticles adsorption on WSe_2 combined with material genome approach	Hui-Wen Tsao	National Cheng Kung University, Taiwan	Hui-Wen Tsao, Chao-Cheng Kaun, Yen-Hsun Su	Yen-Hsun Su
G-P-358	Diamond film developed by microwave plasma jet chemical vapor deposition and its electrical properties	Jing-Shyang Yen	National Taipei University of Technology, Taiwan	Chun-Yu Lin, Jing-Shyang Yen, Jwo-Shiun Sun, Chii-Ruey Lin, Hua-Yi Hsu, Ming-Chieh Lin	Hua-Yi Hsu
G-P-440	Impact of hafnium oxide-based ferroelectric material on two-dimensional transistor for negative capacitance and memory application	Kuan-Ting Chen	National Chung Hsing University, Taiwan	K.-T. Chen, Y.-F. Chung, S. T. Chang	S. T. Chang
G-P-465	Band structures of N-doped TiO_2 and Ti_3O_5 coatings: first-principle calculations and experiments	Meng-Yu Lin	National Chung Hsing University, Taiwan	M.-Y. Lin, M. H. Lee, F.-H. Lu	F.-H. Lu

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G-P-506	Effect of nitrogen on the growth of (100)-, (110)-, and (111)-oriented diamond films	Jen-Chuan Tung	National Chung Hsing University, Taiwan	Jen-Chuan Tung, Tsung-Che Li, Po-Liang Liu	Po-Liang Liu
G-P-508	NO ₂ and H ₂ S gas sensors based on ZnGa ₂ O ₄ (111) thin films	Jen-Chuan Tung	National Chung Hsing University, Taiwan	Jen-Chuan Tung, Yi-Hung Chiang, Po-Liang Liu	Po-Liang Liu
G-P-570	First principle calculation of metal-support interactions between platinum and titania for catalyst designs	Szu-Han Tung	National Tsing Hua University, Taiwan	Szu-Han Tung, Amita Sihag, Hsin-Yi Tiffany Chen	Hsin-Yi Tiffany Chen