

TACT2011 International Conference Poster Paper Award

Third Prize

Symposium	Abstract No.	Author Name	Organization	Title
A- Coatings for sustainable energy	A-003 A20110630001	<i>Lih-Ping Wang, Chien-Chih Chiang, Yu-Yun Wang, Tsung-Kai Yeh, Wei-Chien Chen, Song-Yeu Tsai</i>	Industrial Technology Research Institute	Flexible Cd-free Cu(In, Ga)Se₂ Solar Cells with Non-vacuum processing
	A-006 F20110627001	<i>Seung Min Lee, Bhaskar C Mohanty, Yeon Hwa Jo, Deuk Ho Yeon, Yong Soo Cho</i>	Yonsei University	Structural, Optical and Electrical Properties of Cu₂ZnSnSe₄ Thin Films Prepared by Different Selenization Processes
	A-017 A20110620033	<i>Wei-Hsine Chen, Peter Chen</i>	National Cheng Kung University	Titanium nitride thin film as counter electrode for back contact dye-sensitized solar cells
	A-030 A20110620012	<i>Yi-Mu Lee, Yujung Kuo, Hao-Chun Chang and Chun-Hung Lai</i>	National United University	Effect of Rapid Thermal Annealing on Electrical Properties of Solid ZnO/NiO Heterojunction for Solid-state Dye-sensitized Solar Cells
	A-062 A20110519008	<i>Nao Shinoda, Tetsuya Shimizu, Tso-Fu Mark Chang</i>	Tokyo Institute of Technology	Novel Cu electroplating using suspension of supercritical carbon dioxide in copper-sulfate-based electrolyte with Cu particles
	A-071 A20110518005	<i>Min-Hee Hong, Sin-Young Jung, Tae-Jung Ha, Won-Seon Seo, Young Soo Lim, and Hyung-Ho Park</i>	Yonsei University	Thermoelectric property of mesoporous TiO₂ film with impurity adding
B- Nanostructured and nanocomposite coatings	B-015 B20110620030	<i>Yang-Yen Yu, Wen-Chen Chien, Hui-Huan Yu</i>	Ming Chi University of Technology	High refractive index organic–inorganic composite coating with TiO₂ nanocrystal
	B-017 B20110620028	<i>Chuan-Po Wang, Pei Ling Li, and Chie Gau</i>	National Cheng Kung University	P-type Silicon Nanowire Field-Effect-Transistor by in situ Substructure Doping
	B-037 B20110620007	<i>I-Hsiang Tseng, Chi-Jung Chang, Jin-Wen Chang,</i>	Ming Chi University of Technology	Effect of Magnetron Sputtered Silicon Nitride on Water-Vapor-Transmission-Rate of Polyimide Nanocomposites

		<i>Jyh-Wei Lee, Mei-Hui Tsai</i>		
	B-045 B20110619002	<i>Kai-Po Yang, Ingann Chen, Jow-Lay Huang, Changshu Kuo</i>	National Cheng Kung University	Electrochromic Properties of WO₃ Coatings Electrodeposited onto Electrospun Nanofibers
	B-072 B20110520011	<i>Yu-Chih Kao and Franklin Chau-Nan Hong</i>	National Cheng Kung University	Selective electroless deposition of silver nanograting patterns with no lateral growth for the fabrication of polarizers
	B-083 B20110519025	<i>Jun-Han Huang, Po-Chien Huang, Michael Rong-Shie Huang, Chuan-Pu Liu</i>	National Cheng Kung University	Control of Nanowire Direction by Bent Columnar Grains
	B-087 B20110519021	<i>Ah Ra Kim, Jong Hoon Lee, Chang Hoi Kim, Hong Seung Kim, Ye-Sul Jeong, Kyu-Ha Baek, and Lee-Mi Do</i>	Korea Maritime University	The characteristic of the ZnO nanorod grown by the hydrothermal method on patterned ZnO seed layer with sub-micrometer
	B-098 B20110518023	<i>Jin-Seok Lee, Hyung-Ho Park, Ho Won Jang, Seok-Jin Yoon</i>	Yonsei University	The effect of multiwall carbon nanotube doping on the CO gas sensitivity of TiO₂ xerogel
	B-103 B20110518015	<i>Shui-Yang Lien, Jia-he Jhu</i>	MingDao University	Super-hydrophilic SiO₂-doped TiO₂ thin films prepared by sol-gel technology
C- Optical, optoelectronic and dielectric coatings	C-145 C20110518018	<i>Chi-Liang Chao, Ya-Ting Wu, Shyankay Jou</i>	National Taiwan University of Science and Technology	Resistance Switching of Copper-Doped Tantalum Oxynitride Films Prepared by Oxidation of Copper-Doped Tantalum Nitride
	C-107 C20110603001	<i>Fang-Hsing Wang, Hung-Peng Chang, Chia-Cheng Huang, Jen-Chi Chao</i>	National Chung Hsing University	Effects of Deposition Temperature on the Characteristics of Hydrogen Co-doped in ZnO:Ti Thin Films
	C-067 C20110620004	<i>Chih-Hao Liang, Xiaoding Qi</i>	National Cheng Kung University	Indium-tin-oxide thin films deposited on polyethylene-terephthalate substrates by substrate-biased RF magnetron sputtering

C-137 F20110519009	<i>Hong-Yan Gou, Sun Chen, Shi-Jin Ding, Qing-Qing Sun, David Wei Zhang, Peng-Fei Wang</i>	Fudan University	Influence of the HfAlO composition on the memory effects of the MOS capacitors with Al₂O₃/HfAlO/Al₂O₃ dielectrics and Pd electrode
C-077 C20110618002	<i>Hua-Yi Hsu, Chun-Hsi Su, Shuai Wang</i>	National Taipei University of Technology	Electromagnetic Performance of Diamond-Like Carbon Films Grown on Quartz Substrates Using the Microwave Plasma Jet Chemical Vapor Deposition System
C-114 C20110520008	<i>Pen-Hsiu Chang, Shi-Yu Hong, Mu-Jung Lee, Wei-Ting Lin², Yu-Xian Guo</i>	National Taipei University of Technology	Characteristics of InN films with Mn ion implantation
C-115 F20110520017	<i>Chiung-Wei Lin, Yao-Chan Tsai and Yi-Liang Chen</i>	Tatung University	Improved Microcrystalline Silicon and Gate Insulator Interface with a Pad/Buffer Structure
C-066 B20110620004	<i>Wei-Chun Chen, Shou-Yi Kuo, Fang-I Lai, Woei-Tyng Lin, Chien-Nan Hsiao</i>	Instrument Technology Research Center	Effect of substrate temperature on structural and optical properties of InN epilayer grown GaN
C-019 C20110620049	<i>Wen-Chen Chien, Yang-Yen Yu, Chien-Chih Lin, Tzu-Hsien Yu</i>	Mingchi University of Technology	Preparation of titania with different morphology and its application in dye-sensitized solar cells
C-082 C20110617008	<i>Yung-Shou Ho, Yi-Siou Chen, Cheng-Heng Wu, Wein-Duo Yang</i>	Fooyin University	The effect of two-step calcination on the electrical and optical properties of Aluminum doped ZnO film by sol-gel process
C-021 C20110620047	<i>Chii-Ruey Lin, Da-Hua Wei, Chien-Kuo Chang, Wen-Hsiang Liao, Yen-Hung Cho and M. K. Ben-Dao</i>	National Taipei University of Technology	High Transmittance and Humidity Durability for Hydrogen-free Diamond-like Carbon Films Coating at Room Temperature
C-043 F20110620031	<i>M. C. Huang, I. C. Chen, S. W. Lee, C. C. Wu, K. C. Peng, J. C. Lin</i>	National Central University	The role of bath temperature on the microstructure and characterization of electrodeposited p-Cu₂O thin films

D- Tribological and protective coatings	D-031 D20110614001	<i>Li-Chun Chang, Yung-I Chen</i>	Ming Chi University of Technology	Oxidation Study of Nanocrystalline Cr-Ta Hard Coatings
	D-015 D20110620009	<i>Yu-Cheng Hsiao, K'un-Yuan Liu, Chih-K'un Chang and Fan-Bean Wu</i>	National United University	Corrosion Behavior of Sputtered Ni-Ru-P Coatings
	D-023 F20110618006	<i>M.L. Chang, L.T. Hwang, H.C. Lin, M.J. Chen</i>	National Taiwan University	An investigation of Al₂O₃ deposited by atomic layer deposition as corrosion protection layers for pure coppers
	D-006 F20110620065	<i>Pi-Chuen Tsai, Chi-Lung Chang, Cheng-Yan Hung, Wen-Jauh Chen</i>	National Formosa University	Microstructures and Properties of CrSiBN Films Synthesized by Reactive Magnetron Co-sputtering
	D-066 B20110509001	<i>L. Dong, D. J. Li, J.Y. Yan, S. Zhang, M. Cao, X.Y. Deng</i>	Tianjin Normal University	A study of the structural and mechanical stability of TiB₂/BN superlattice coatings induced by annealing
	D-049 D20110518001	<i>Yin-Yu Chang, Chen-Jui Wu</i>	Mingdao University	Mechanical properties and impact resistance of multilayered TiAlN/ZrN coatings
E- Biological coatings	E-017 E20110520002	<i>Yin-Yu Chang, Ya-Chi Chen, Jui-Ching Weng, Heng-Li Huang, Chih-Ho Lai</i>	Mingdao University	Characterization and antibacterial performance of ZrNO-Ag coatings
F- General subjects related to thin films and coatings	F-026 F20110619009	<i>Hien Do, Yue-Han Wu, Chun-Yen Peng, Chih-Sheng Tian, Tzu-Chun Yen, Li Chang</i>	National Chiao Tung University	Stability of titanium oxynitride films in hydrogen microwave plasma
	F-050 F20110520012	<i>Wonkyung Lee, Hyun-Woo Park, Sooseok Choi and Dong-Wha Park</i>	INHA University	Preparation of spherical hollow alumina particles by thermal plasma and their spray coating characteristics
	F-016 F20110620027	<i>W. X. Lan, M. C. Huang, W. Y. Hsu, W. H. Weng, K. C. Peng, J. C. Lin</i>	National Central University	Electrochemical deposition of p-Type Cuprous Thiocyanate Thin Films
	F-012 F20110620044	<i>Ko-Shao Chen, Shu-Chuan Liao, Shen-Wei Lin, Shao-Hsuan Tsao, Norihiro</i>	Tatung University	The Film Deposition via Atmospheric Pressure Plasma with He and Ethanol Mixing Gas

		<i>Inagaki</i>		
	F-049 F20110520014	<i>Hirohito Imamura, Takashi Nagoshi, Akari Yoshida, Susumu Onaka, Masato Sone</i>	Tokyo Institute of Technology	Mechanical testing of electrodeposited Ni film parallel and vertical to crystal growth direction using micro-sized cantilever specimens
	F-057 F20110519011	<i>Taiki Uemura, Tso-Fu Mark Chang, Akinobu Shibata, Masato Sone</i>	Tokyo Institute of Technology	Abnormal large grains epitaxially grown in electrodeposited Ni layer on Cu substrate