

2013 ISNST Program

November 15 (Fri.)		
8:00—9:00	Registration (place: E13 lobby)	Page
9:00—9:25	Opening Ceremony (place: E1301) Opening remark: Professor Chein Tai , Chairman of Congress, The President of Southern Taiwan University of Science and Technology, Invited guests	
9:25—9:30	Group photos	
9:30—10:20	Keynote Speaker 1 (place: E1301) Professor Lih-Juann Chen /Chancellor of National Tsing Hua University and Ministry of Education National Chair Professor, Department of Materials Science and Engineering, National Tsing Hua University, Hsinchu, Taiwan, ROC. Title: Advanced Transmission Electron Microscopy for Nanomaterials	1
	Chairman: Professor Katsuhiko ARIGA /World Premier International (WPI) Research Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS)	
10:20~10:40	Coffee Break	
10:40—11:30	Keynote Speaker 2 (place: E1301) Professor Subhas Mukhopadhyay /Distinguished Lecturer, IEEE Sensors Council, School of Engineering and Advanced Technology, Massey University, Palmerston North, New Zealand. Title: Impedance Spectroscopy for MEMS based Sensors	51
	Chairman: Professor Cheng-Hsin Chuang /Department of Mechanical System Engineering, Southern Taiwan University of Science and Technology	

11:30 – 12:00	<p align="center">Invited Speaker 1 (place: E1301)</p> <p>Professor Fumio WATARI/Graduate School of Dental Medicine, Hokkaido University, President of Nano Biomedical Society, Editor in Chief of the journal “Nano Biomedicine”, Japan.</p> <p>Title: Dynamic observation of cell response behavior to nanoparticles and its effect on conversion of material functions through biological process</p>	83
	<p>Chairman: Professor Ying-Hsi Fuh / Department of Mechanical Engineering, National University of Singapore</p>	
12:00 – 13:30	Lunch Break & Poster Exhibition & Evaluation	
13:30 – 14:00	<p align="center">Invited Speaker 2 (place: E1301)</p> <p>Professor Katsuhiko ARIGA/World Premier International (WPI) Research Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS).</p> <p>Title: Hand-Operating Nanotechnology</p>	84
	<p>Chairman: Professor Chien-Hsiang Chang/Department of Chemical Engineering, National Cheng Kung University, Tainan City, Taiwan, ROC</p>	
14:00 – 14:30	<p align="center">Invited Speaker 3 (place: E1301)</p> <p>Professor Shuichi TORII/Department of Mechanical System Engineering, Kumamoto University.</p> <p>Title: Thermal Fluid Flow Transport Phenomena in Circular Tube Flow using Nano-fluids and its Application to Cooling Device</p>	101
	<p>Chairman: Professor Li Lu / Department of Mechanical Engineering, National University of Singapore</p>	
14:30 – 15:00	<p align="center">Invited Speaker 4 (place: E1301)</p> <p>Professor Osamu Tsutsumi/Department of Applied Chemistry, College of Life Sciences, Ritsumeikan University.</p> <p>Title: Reversible Control of Luminescent Color from Liquid-Crystalline Gold(I) Complexes</p>	103
	<p>Professor Koichi Ute/Department of Chemical Science and Technology, The University of Tokushima, Tokushima, JAPAN</p>	
15:00 – 15:20	Coffee Break	

15:20 – 15:50	<p align="center">Invited Speaker 5 (place: E1301)</p> <p>Dr. Cheng-Yu Hsieh/R&D Supervisor, Enerage Inc., Adjunct Assistant Professor, Department of Chemical and Materials Engineering, National Yilan University, Director, Chinese Alternative Energy Association.</p> <p>Title: Mass production of graphene material and its industrial applications</p>	112
	<p>Chairman: Professor Hong-Ru Lin/Department of Chemical and Materials Engineering, Southern Taiwan University of Science and Technology</p>	
16:00 – 17:30	Oral Section A & B (place: E1304 、 E1305)	
	15 minutes per one speaker	
17:30 – 18:30	Free Time & Discussion	
18:30	Banquet (place: E13 lobby)	

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09:00 – 09:30	<p align="center">Invited Speaker 6 (place: E1301)</p> <p>Professor Koichi Ute/Department of Chemical Science and Technology, The University of Tokushima, Tokushima, JAPAN</p> <p>Title: Monomer Sequence Distribution of Methacrylate Copolymers Prepared by Copolymerization or Polymer Reactions as Studied by Multivariate Analysis of C-13 NMR Spectra</p>	130
	<p>Chairman: Professor Osamu Tsutsumi/Department of Applied Chemistry, College of Life Sciences, Ritsumeikan University</p>	
09:30 – 10:00	<p align="center">Invited Speaker 7 (place: E1301)</p> <p>Professor Ying-Hsi Fuh / Department of Mechanical Engineering, National University of Singapore</p> <p>Title: Biofabrication of PCL and PCL/Chitosan Scaffolds via Electrohydrodynamic-Jetting (or E-Jet Printing) for Dentin and Periodontal Healing</p>	131
	<p>Chairman: Professor Fumio WATARI/Graduate School of Dental Medicine, Hokkaido University</p>	

10:00 – 10:20	Coffee Break	
10:20 – 10:50	<p>Invited Speaker 8 (place: E1301) Professor Li Lu / Department of Mechanical Engineering, National University of Singapore</p> <p>Title: Understanding relationship between materials, nanoarchitecture and capacitance of supercapacitors</p> <p>Chairman: Professor Shuichi TORII/Department of Mechanical System Engineering, Kumamoto University</p>	135
10:50 – 11:20	<p>Invited Speaker 9 (place: E1301) Professor Adam Rylski / Institute of Materials Science & Engineering, Lodz University of Technology, Lodz, POLAND</p> <p>Title: Nanocomposite and Nanostructured Coatings Deposited by Magnetron Sputtering</p> <p>Chairman: Professor Mitsunobu Sato/Laboratory for Coordination Chemistry & Engineering, Kogakuin University</p>	157
11:20 – 12:00	<p>Award & Closing Remark (place: E1301) Prof. Deng-Maw Lu, The Vice President of Academic Affairs of Southern Taiwan University of Science and Technology</p>	

Oral Section A (Conference Room: E1304) Chairman: Dr. Cheng-Yu Hsieh and Professor Chang-Ning Huang /Department of Chemical and Materials Engineering, Southern Taiwan University of Science and Technology			
ID/Time	Authors	Title	Page
OA1/ 16:00-16:15	Szu-Min Yen, Ze-Syue Wu, Yen-Sheng Lin	Study Of Optimization Growth On Ultra Thin Al-Doped ZnO Layer With Nano-Silver Structures	159
OA2/ 16:15-16:30	Y. S. Huang, Y. C. Lee, S. Y. Hu, C. C. Huang, M. K. Tsai, Y. H. Weng, K. K. Tiong, C. C. Chang, and Z. C. Feng	Studies Of Raman And X-Ray Diffraction In InGAN Films With Different In Contents	160
OA3/ 16:30-16:45	Fu-Yu Cheng, Yen-Sheng Lin, Chin-Hsiang Chen	Enhanced Anti-Reflection On The Surface Of Silicon By The Formation Of Nano Ni-Si Compounds	161
OA4/ 16:45-17:00	Chang-Yu Shih, and Chih-Cheng Kao	Physical Properties Of $\text{Si}_x\text{Ge}_y\text{O}_{1-x-y}$ Films Embedded With Er	162

OA5/ 17:00-17:15	Meng-Yen Chen, Ze-Syue Wu, Yen-Sheng Lin	The Enhanced Of Photoelectric Properties On Ultra-Thin ZnO/Nano-Al/ZnO Layer By Post Thermal Annealing Treatment	163
OA6/ 17:15-17:30	Shih-Jiun Chen, Pei-Ching Yu, Fu-Su Yen	Formation Route Alteration Of Synthesizing Mullite Induced By Seeding Nanoscaled Mullite Powders	164

Oral Section B (Conference Room: E1305)

Chairman: Professor Ching-Ming Hsu/Department of Electro-Optical Engineering, Southern Taiwan University of Science and Technology **and Professor Shun-Fua Su**/Department of Chemical and Materials Engineering, Southern Taiwan University of Science and Technology

ID/Time	Authors	Title	Page
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OB2/ 16:15-16:30	Koichi Ute, Yuchin Hsu, Chen-ChienWang	Multivariate Analysis Of C-13 NMR Spectra Of Methacrylate Copolymers Prepared By Polymer Reactions	166
OB3/ 16:30-16:45	Wei-Che Huang, Yen-Sheng Lin, Cho-Liang Chung	The Enhanced Optoelectronic Property By Insetting Nano-Cu Structures In ZnO Layer	167
OB4/ 16:45-17:00	T. Y. Wu, Y. C. Lee, S. Y. Hu, M. K. Tsai, C. C. Huang, C. C. Chang, and J. L. Shen	Luminescence Properties Of $Zn_{1-x}Cd_xO$ Thin Films With Different Cadmium Contents	168
OB5/ 17:00-17:15	Hong-Ming Huang, Wei-Che Huang, Yen-Sheng Lin, Cho-Liang Chung	Enhancement Of Optoelectronic Property By Insetting Nano-Al Structures In Al-Doped ZnO Layer	169
OB6/ 17:15-17:30	An-Tsung Kuo, and Chien-Hsiang Chang	Effect Of Cholesterol On The Catanionic Bilayers Composed Of Ion Pair Amphiphile And Double-Chained Cationic Surfactant: A Molecular Dynamics Study	170

Poster Section

(A) Nanomaterials and Nanostructure

ID	Authors	Title
PA01	Chang-Yun Cai, Kuan-Yi Tsao, and Hongta Yang	Fabrication Of Nonclose-Packed Colloidal Crystals With Tunable Lattice Spacing
PA02	Zhe-Sheng Huang, Kuan-Yi Tsao, and Hongta Yang	Self-Assembled Superhydrophobic Coatings With Raspberry-Like Structures
PA03	Kuo-Tong Lee, Sheng-Hao Wang, Chun-Yao Shih and You-Wei Lee	Syntheses Of Lithium Aluminosilicate Nano Particles By Glass-Ceramic Method
PA04	M. H. Shih, Y. S. Yang, S. R. Zheng, C. H. Hsieh and B. J. Chen	Syntheses And Spectral Characterization Of Nickel(II) Complexes Derived From Schiff-Base Thiosemicarbazones And Mixed Ligand Triphenylphosphine
PA05	M. H. Shih and Y. Y. Xu	Syntheses And Characterization Of Nickel(II) Complexes With Schiff-Base Ligands Derived From Aliphatic Diamines, Aromatic Diamines, And Substituted Salicylaldehydes
PA06	I-Hsuan Chang, Hsyi-En Cheng, and Ing-Song Yu	Titanium Dioxide And Silicon Nitride Stacks For Crystalline Silicon Solar Cells
PA07	Ping-Hsun Chen	Interpreting The Meaning Of “Nanocomposite” Under The American Patent Law: A Case Study Of Schultz V. iGPS Co. LLC, 2013 WL 212927 (N.D. ILL. 2013)
PA08	Che-Liang Huang, Cheng-Kun Tsai, Boy-En Chen, Jia-Hao Jhanh, Wei-Lun Ciou, Chang-Wei Hsieh	Glassy Carbon Electrode Modified By Multi-Walled Carbon Nanotubes For Detection Platform Of Organochlorine Pesticides
PA09	S.J. Tsai, P.J. Chao, W.C. Shiau, C.M. Yang, and C.S. Tsai	Dynamic Mechanical Analysis Of Epoxy Composite Reinforced By Short Graphite Nanofibers
PA10	T.Y.Tai, K.T.Nguyen and V.N.Vo	Research On Polycrystalline Diamond Grain Size Effect On Machining Parameters
PA11	T.Y.Tai, Van Nhan Vo,	Micro Machining Of Polycrystalline Diamond By Micro-WEDM

	and K.T. Nguyen	
PA12	Yung-Pin Huang, and Fen-Mei Chang	Correlation Between PE Nanoparticle 、Plowing Effect And NIR Reflection Of The TiO ₂ -Modified Pet Fiber
PA13	Yu-Chang Wang, Wen-Cheng Tzou, Hon Kuan, Wei-Lun Yuen	Self-Assembly Of Polystyrene Nanospheres Used In The Ion Etching
PA14	Chuh-Yean Chen, Chen-Li Chiang. Jia-Hong Sun	Preparation Of Silver Nanoparticles On A Copolymer Film Containing Chelating Groups
PA15	Hsieh Chih-Yung and Wen-Chang Wu	Preparation And Properties Of Zinc Oxide Nanowires By Adding PVP
PA16	Bo-Jhih Chen, Ming-Kwen Tsai, Yueh-Chien Lee, Chia-Chih Huang, Cheng-Han Wu, Kwong-Kau Tiong, Shih-Wei Tan	Growth And Characterization Of CuInS ₂ Nano-Particles Prepared By Microwave-Assisted Synthesis
PA17	S. R. Tong, Y. C. Lee, M. K. Tsai, C. C. Huang, and S. Y. Hu	Synthesis And Characterization Of Well-Oriented ZnO Nanorod Arrays Prepared By Microwave-Assisted Heating
PA18	K. L. Yang, W. D. Su, J. H. Hsu, and H. C. Chang	Emission Properties Of Color Center In Nanodiamond Influenced By High Energy Bombarding
PA19	Yen-ChengLin, Ming-Kwen Tsai, Yueh-ChienLee, Chia-Chih Huang, Yi-Lun Gao, Kwong-KauTiong	Fabrication And Characterization Of MgZnO/ZnO Nanowire Arrays By RF Sputtering
PA20	Bo-Jia Huang, Jyun-Jia Huang, Sheng-Chang Wang	Influence Of Temperature To Synthesize Tin (II) Sulfide Using Thermal Decomposition Method
PA21	Shih-Jhang Lin, Hong-Chi Lin, Sheng-Chang Wang	Effect Of Oleic Acid Concentration For Synthesis Of Pt-Ir/C Alloy Nanoparticles By Thermal Decomposition Method
PA22	Cheng-Chien Wang,	Study On The Properties Of Waterborne Polyurethane Blended With

	Chih-Wei Wu	Inorganic Nanoparticles
PA23	Cheng-Chien Wang, Chin-Tzu Chang	Effects Of Epoxidized Natural Rubber On The Natural Rubber/Inorganic Nanocomposites
PA24	Chich-Feng Tuan, Hsuan-Ying Chen, David T.W. Lin, Kun-Dar Li	Surface Morphology Of Silver Film By Atmospheric Pressure Plasma Treatment
PA25	Chia-Hua Lee, Zong-Sian Wu, Li-Wei Pan, Jiing-Herng Lee	Effect Of Phosphates On Synthesis Of Hydroxyapatite Powders Through Microwave
PA26	Yi-Chan Tsai , and Hue-Min Wu	Synthesis Of Alumium Nitride Nanowires By The Method Of Electrostatic Spinning
PA27	Chi-Sheng Li, Shu-Huei Hsieh	The Study Of Co – Ni – P Nanoparticles As Low-Cost/High-Performance Catalysts For Hydrogen Generation By Using Electroless Plating
PA28	Yao-Huei Jhang , Wen-Jauh Chen, Shu-Huei Hsieh	Fabrication Of Co-Ni-P/Graphene Nanocomposite Materials And Their Catalytic Characteristics On Hydrogen Generation
PA29	Yeuh-Hui Lin	Fabrications Of Core-Shell Nanoparticles By Detonation Technology
PA30	Yeuh-Hui Lin	A Novel Method For Converting Of The Energetic Explosive Into Nanomaterials
PA31	H. Nagai, Y. Inaoka, T. Shibukawa, I. Takano, T. Honda, M. Sato	Conductivity Of Transparent ZnO Thin Film Fabricated Using Molecular Precursor Method
PA32	Jia-Ren Lee, Bo-Wen Shiau and Wei-Cheng Ding	A Study Of Au Nanoparticles Growth Mechanism By Absorption Spectrum
PA33	Jia-Ren Lee, Bo-Wen Shiau and Wei-Cheng Ding	The Absorption Characteristics And Parameter Modulations In Preparation Processes Of Fe ₂ O ₃ Nanoparticle By Electrochemical Reduction Method
PA34	Jia-Ren Lee, Bo-Wen Shiau and Wei-Cheng Ding	The Morphology Dependent Migration Mechanism Of Thermal-Induced Carriers In Quantum Dots System
PA35	Sheng-Yao Hu, Yueh-Chien Lee, Bo-Jhih Chen, and	Urbach Energy Behaviour of Mg-In co-Doped GaN Epitaxial Layers

	Kwong-Kau Tiong	
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(B) Nano Biological Technology

ID	Authors	Title
PB01	Hui-Chuan Tseng, Chih-I Chen	Evaluation On The Application Of Nano CLEA-GPD Immobilized Penicillin Acylase
PB02	C.-H. Chuang, S.-M. Chen, H.-P. Wu, Y.-C. Yu, D.-H. Lee, Y.-W. Huang and C.-P. Jen	Portable Immunosensing System For Point-Of-Care Diagnosis Of Bladder Cancer Using Disposable Chip With Interdigital Electrode
PB03	C.-H. Chuang, K.-C. Chang, J.-W. Ju, C.-H. Chen, T.-F. Wu, Y.-W. Huang and C.-P. Jen	Antibody Array Biochip For Immunoassay Of Bladder Cancer Cell Lysate Based On Silane-Coated Nanoprobes
PB04	Hong-Ru Lin, Yu-Sen Lee, and Third C. Coauthor	Pluronic-Chitosan Nano- Micells For Lung Delivery
PB05	Hong-Ru Lin, Yi-Kai Chen	The Effects Of Emulsifier On The Physical Characterization Of Pluronic-Chitosan Micelles For Ophthalmic Delivery
PB06	Bo-Ming Zhen, Ming-Li Wu, Zheng-Hao Liu	Immobilization Of Lipase On Fe ₃ O ₄ Nanoparticles And Their Catalytic Activities For Hydrolysis In Organic Solvent
PB07	Xing-You Ye, Ming-Li Wu, and Yue-Xia Cho	Modification Of Fe ₃ O ₄ Nanoparticles With Basic Amino Acid For Separation Of Plasmid
PB08	Shin-Wen Peng and Min-Sheng Hung	Investigating The Effect Of Anti-Cancer Foods On Young's Modulus Of Cells Using Afm
PB09	Cheng-Ho Chen, Chih-Hao Haung, Yin-Lung Liou, Ying-Chen Lin, Cheng-Hsin Chuang, and Hsun-Pei Wu	Electrically Enhanced Dielectrophoretic Chip Based On Polyaniline/ γ -Al ₂ O ₃ Conductive Nanocomposites
PB10	Ching-Feng Mao, Tsung-Wei Tai	Preparation Of Poly(D,L-Lactide-Co-Caprolactone) Copolymer Microparticles
PB11	Peng-Tzu Lu, Takashi Higuchi, and	Performance Evaluation of Biofilters For The Removal Of Low-Level Gaseous Nitrogen Oxides

	Chee-Jen Chen	
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(C) Nano Optics and Electrics Technology

ID	Authors	Title
PC01	Mei-Li Chen, Chang-Ming Liu, Yu-Heng Siao and Chun-Rong Lin	Synthesis And Characterization Of Nickel Selenide Nanoparticles
PC02	Mei-Li Chen, Ji-Fu Chen, Yi-Jie Huang and Chun-Rong Lin	Synthesis And Characterization Of Cobalt Selenide Nanoparticles
PC03	M. L. Lee, Chun-Jung Chang, S. J. Tu, Y. H. Yeh, and J. K. Sheu	Improved Output Power Of InGaN LEDs By Lateral Overgrowth On Si-Implanted N-GaN Surface To Form Air Gaps
PC04	Ching-Huei Wang, Chun-Liang Chen	Preparing And Characterizing Of Nano Ni – Ce – ZrO ₂ Catalyst For The Carbon Dioxide Reforming Of Methane
PC05	Kuen-Hsien Wu, Yu-Sheng Huang, Sheng-Chun Lin	Deposition And Characterization Of Carbon Thin Films On Silicon Substrates With Nano-Porous-Silicon Buffer Layers
PC06	Kuen-Hsien Wu, Chia-Chun Tang, Tsung-Han Liu	Fabrication Of Trenched Electrodes On Nano-Porous-Si Surface Layers For Application In Poly-Si Solar Cells
PC07	Kuen-Hsien Wu, Jyun-Li Wu, Chen-Yi Huang	Optoelectronic Characteristic Analysis Of Porous-Silicon Chemical Sensors With Multi-Layered Structures For Different Organic Solvents
PC08	Jyun-Wei Lai, Hon Kuan, Wen-Cheng Tzou, Kun-Hong Wang , Zhi-Yang Chen, Cheng-Peng Wu	The Study Of Indium Gallium Zinc Oxide Transparent Conducting Layer On Gallium Nitride Light Emitting Diode
PC09	Cheng-Peng Wu , Hon Kuan , Wen-Cheng Tzou , Zhi-Yang Chang , Kun-Hong Wang , and Jyun-Wei Lai	Fabrication And Package Of White-Light Emitting Diode Improved By Color Temperature Uniformity
PC10	Ying-Xun Zeng,	Internal Micro-Lens Arrays For High Light Out-Coupling Of White

	Chin-Ming Hsu, Wen-Tuan Wu and Ming-Wei Lin	Organic Light Emitting Diodes
PC11	Zhi-Yang Chen, Hon Kuan, Wen-Cheng Tzou, Cheng-Peng Wu	Fabrication And Package Of White-Light Emitting Diode Improved By Surface Plasma-Enhanced Fluorescence
PC12	Shih-Ming Chen, Chien-Hsin Yang	Using Nitrogen-Doped Graphene/TiO ₂ -Modified Electrodes To Promote Performance Of Electrochromic Devices
PC13	Yu-Chang Wang, Wen-Cheng Tzou, Hon Kuan	Fabrication Of Dye Sensitized Solar Cell Using Sol-Gel Zinc Oxide Nanorods
PC14	Jung-Chuan Fan, Min-Huan Chen, Chien-Tsung Huang, Huang-Huei Sung, and Shih-Fong Lee	The Lateral Photovoltaic Of The Oxide Layer In Semiconductors
PC15	Jung-Chuan Fan, Chien-Tsung Huang, Min-Huan Chen, Huang-Huei Sung, and Shih-Fong Lee	The Photocurrent And Thermally Stimulated Current Effect Of Thin Film In Oxide Semiconductor
PC16	Chi-Mang Tang, Wen-Cheng Tzou, Hon Kuan	Nanoscale MgO/ZnO Thin Films Prepared Into Self-Assembled Multi-Layers Via Spin Coating
PC17	Chi-Mang Tang, Shih-Chieh Peng, Wen-Cheng Tzou, Hon Kuan	SiO ₂ Nanospheres Prepared By Sol-Gel And Applied In The Surface Texturing Of Light Emitting Diode
PC18	Yung-Fu Wu, Yu-Sheng Wang, Yeng-Hong Pan, and Chin-Yi Lin	Fabrication And Surface Treatment Of Indium Gallium Zinc Oxide Films From Waste Target
PC19	Jyun-Fu Shih, Ruei-Tang Chen	Electrolyte pH Of The Dye-Sensitized Solar Cell Efficiency Effect
PC20	Rei-Shin Chen, Hong-Bin Wei, Yuh-Chung Cheng,	Novel Design Of Polarization Splitter In Two-Dimensional Photonic Crystal With A Complete Photonic Bandgap

	and Chung-Liang Tsai	
PC21	Rei-Shin Chen, Hong-Bin Wei, Yih-Bin Lin, and Han-Bin Lin	Self-Collimation In Two-Dimensional Square Photonic Crystal And Its Application To Polarization Splitting
PC22	Rei-Shin Chen, Jyun-Yi Chen, Yih-Bin Lin, and Han-Bin Lin	Study Of Improved High-Transmission Waveguide Bends In Two-Dimensional Honeycomb Photonic Crystal
PC23	Rei-Shin Chen, Wei-Hao Huang, Yuh-Chung Cheng, and Chung-Liang Tsai	Transmission Spectra Of Optical Delay Lines Realized By Photonic Crystal Coupled Cavity Waveguides
PC24	Yu-Chi Chen, Hung-Ta Lin, Chia-Chih Huang, Yueh-Chien Lee, and Ming-Kuen Tsai	A Tunable Waveguide Filters Consisting Of Plasmonic Nanodisk Resonators With HIG-Index Dielectric Core Embedded In A Low-Index Dielectric Cylinder Waveguide
PC25	Hung-Ta Lin, Yu-Chi Chen, Chia-Chih Huang, Yueh-Chien Lee, and Ming-Kuen Tsai	A Low Loss Hybrid Plasmonic Waveguides With A High-Index Dielectric Nanowire Above A Rectangular Channel Waveguide Embbed In A Metallic Trench
PC26	Ruey-Ching Twu, Hsiao-Ying Tu, and Guan-Min Chen	Birefringent Polymer Transducer For Angular Displacement Measurements
PC27	Bao T. Jheng, Po T. Liu, and Meng C. Wu	Zinc Oxide Nanorod Arrays As Anti-Reflection Layer For Chalcopyrite Thin Film Solar Cells Applications
PC28	C. C. Hsiang, C. K. Wang, and Y. Z. Chiou	Enhancement Of Optical Performance Of Near-UV Nitride-Based Light Emitting Diodes With Different Aluminum Composition Barrier Structure
PC29	Jeng-Feng Lin, Chih-Chieh Kang, Meng-Sang Li, and Jing-Yan Liou	The Analysis Of Light Absorption Of InGaN LEDs
PC30	Cheng-Sian Lin, Hsyi-En Cheng	Effects Of Oxidation Voltages On The Shapes Of Aluminum Oxide Templates
PC31	Ching-Dong Hsieh,	Fabrication And Characterization Of Dye Sensitized Solar Cells

	Li-Cheng Syue and Shiang Bin Hoo	Using Natural Dye
PC32	Bang-Ci Wang, Sheng-Chang Wang, Ming-Shyong Tsai	Dispersion And Modification Of Yttrium-Aluminum Garnet Phosphor In Organic-Inorganic Hybrid Encapsulant

(F) Nano Measurement and Systems

ID	Authors	Title
PF01	Ching-Hua Wei, Wu-Chung Sue, Fong-Kuei Shih, and Stan-Pin Wang	Effect Of Nitrogen Contents On Deposition Rate And Surface Hardness Of Carbon Thin Films By RF Sputtering
PF02	Tzu-Kang Liao, Shao-Kang Cheng, Wei-Tsung Chuang, Chih-Kung Lee, Wen-Chi Chang, E-Wen Huang	Using In-Situ X-Ray Diffraction To Analyze The Effect Of Electric Field And Temperature For Phase Transformation In Poly(Vinylidene Fluoride-Co-Trifluoroethylene)/Tiopc Films
PF03	Shang-Yi Tu, E-Wen Huang, Jien-Wei Yeh, Chi Lee	A Mechanical-Property Investigated Of CoCrFeMnNi High Entropy Alloy By In-Situ Neutron-Diffraction And Simulation
PF04	Yi-Chuan Chao, Chung-Kai Chang, and E-Wen Huang	Study Of The Thermal Effects On Carbon-Carbon Composite By Using X-Ray Diffraction
PF05	Bo-Han Wu, Yu-Lih Huang, Stefanus Harjo, Wu Gong, and E-Wen Huang	High-Temperature Creep-Fatigue Behavior Study Of INCONEL Alloy 617 By Insitu Neutron Diffraction
PF06	Chih-Ying Liu, Xin Li, Wen-Yih Chen, and E-Wen Huang	Structural Study Of Monopegylated Teriparatide (1-34) In Solution Revealed By Small-Angle Neutron Scattering
PF07	Ching-Feng Mao, Hsing-Yi Chou	Design And Construction Of A Home-Built Dynamic Light Scattering Apparatus

(G) Other Scientific Researches related to Nano Science

ID	Authors	Title
PG01	Ryosuke Tagawa, and Shuichi Torii	Fundamental Study On Heat Flow Phenomena Of Graphene Oxide Nanofluid

PG02	Nguyen Trong Tuyen, Tsung-Fu Chien, Hung-Ming Huang	A Home – Based Hand Rehabilitation System Using Microsoft Kinect
PG03	Fukuoka Yukiko, Caner Senkal, and Torii Shuichi	Effective Use Of Energy With Nano Fluid
PG04	Takato Yamamoto, Il-Ju Hwang, Shuichi Torii and Cheng-Hsin Chuang	An Experimental Study Of Plate Heat Exchanger Based On Numerical And Experimental Results
PG05	Shun Matsuda, Shuichi Torii	Development Of The Suitable Combustor And Combustion Characteristic Of Biofuels
PG06	Fumiyasu Hasegawa	Development Of The Combustion Furnace And Examination Of Its Optimum Operating Condition For Sewage Sludge
PG07	Yen-Jhang Ho and Min-Sheng Hung	A Sing Protoplast Package Using Droplet Microfluidics
PG08	Yi-Dong Shao and Min-Sheng Hung	Design Of A Microfluidics For Real Time Protoplasts Separation And Collection
PG09	Kuei-Sen Chang, Po-Tent Ho, Wen-Hung Weng, Meng-Hung Chen, and Fong-Chang Sheu	Influence Of Impurities In Alumina Ceramics On Their Mechanical Performance
PG10	Han-Sheng Chang, and E-Wen Huang	Strain-Rate-Effect On The Lattice-Strain Evolution In Polycrystalline Nickel Alloy
PG11	Shun-fua Su, Yi-siang Tzai	Proton Conductivity Of Sulfonated Bamboo Fiber Membrane
PG12	Kenya Ide, Shuichi Torii	Development Of The Continuous Drying Device For Biomass Fuel
PG13	Hau Lin, Chia-Chih Ting	The Effect Of Operating Potential On The Detection Of Hydrogen Peroxide For The Carbon Paste Minielectrode Modified With Prussian Blue
PG14	Hau Lin, Ting-Li Lin, and Meng-Ju Yang	The Detection Of Hydrogen Peroxide For The Electrode Modified With Cobalt Hexacyanoferrate And The Unmodified Electrode
PG15	Hau Lin, Chen-Hsun Hu, and Chia-Chih Ting	The Detection Of Sensitivity Of Hydrogen Peroxide For The Electrode Modified With Chromium Hexacyanoferrate Prepared By Coprecipitation Method

PG16	Chih-Hao Haung, Cheng-Ho Chen	Preparation And Application Of Epoxy/Al(OH) ₃ Composites
PG17	Chin-Lung Kung, Cheng-Ho Chen	Preparation And Property Of Polyaniline/Clay Nanocomposites
PG18	Yin-Lung Liou, Cheng-Ho Chen	Preparation And Application Of Core-Shell Structured PANDB/PP Conductive Composites
PG19	Tzung-Hsien Lin, Jing-Yu Luo	Fully Developed Natural Convection MHD Flow In A Vertical Annular With Heat Generation/Absorption And Chemical Reaction
PG20	Chean C. Su, Chien-Huan Wei, Yin S. Li, Ping H. Yang, Cheng F. Yang and Chia C. Wu	Effects Of The Thermal Latency Of The Accelerator On Molding Compounds
PG21	Cheng-Ho Chen, Jing-Mei Wang, Ying-Chen Lin, Pei-Chen Chou, Tsung-Che Hsieh	Effect Of CuSO ₄ Concentration On The Properties Of PANI-BES
PG22	Shun-Fua Su, Shih-Yi Hsu	The Structure And Hydrogen Storage Performance Analysis Of Magnesium-Nickel Alloy
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