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In N	An Experimental Model to Examine the Influence of Processing Parameters on the Morphology of Electrosprayed Poly(D,L)-	S1-008	Complex Materials Consist of a Soft-Polymer and Chromophores with Photoinduced Properties
	Lactide-co-Glycolide (PLGA) Particles		Chi-Hsien Wang, Dao-Hong Huang, Masaki Horie
	Ming-Yi Hsu ^{1,2} , Shih-Kuang Chen ² , and Shih-Jung Liu ^{1,2}		National Tsing Hua University, Taiwan
	¹ Chang Gung Memorial Hospital, Taiwan / ² Chang Gung University, Taiwan	\$1-009	Recycling Polycarbonate into Polyurethane with High Atomic Economic Efficiency
S1-002	Examine the Electrospinning Parameters' Strength on Poly(D,L)-Lactide-co-Glycolide Micro/Nanofibers Diameter Yi-Pin Chen ^{1,2} , Ya-Ling Tang ¹ , and Shih-Jung Liu ^{1,2}		Ying-Chi Huang ¹ , Chien-Hsin Wu ¹ , Shenghong A. Dai ² , Ru-Jong Jeng ¹ ¹ National Taiwan University, Taiwan / ² National Chung Hsing University, Taiwan
	¹ Chang Gung University, Taiwan / ² Chang Gung Memorial Hospital, Taiwan	\$1-010	Effect of Crosslinking Types on the Properties of Biodegradable Hydrogels Based on Cassava
S1-003	Synthesis and Characterization of Novel Tetraamine Monomers and Polybenzimidazoles for High Temperature Proton Exchange		Starch-g-Polyacrylic Acid/Natural Rubber as Coating Membrane for Slow Release Urea Fertilizer
	Membrane Fuel Cell Applications		Patchareepon Jungsinyatam, Sayant Saengsuwan
	Fan-Jie Lin, Yun-Ting Yao, Jyh-Chien Chen		Ubon Ratchathani University, Thailand
	National Taiwan University of Science and Technology, Taiwan Manager Sequence Analysis of the Baly(Viny)	S1-011	Novel Heptacyclic Carbazole Non-Fullerene Acceptors Containing Si Bridges Affords over 14% PCE without Additives
\$1-004	Monomer Sequence Analysis of the Poly(Vinyl Alcohol-co-Vinyl Acetate)s Prepared by Transesterification Catalyzed by Zinc Ate		You-Wei Lin, Jun-Yan Yu, Tsung-Wei Chen, Chain-Shu Hsu
	Complex		National Chiao Tung University, Taiwan
	Ayano Tanaka ¹ , Misaki Senoo ¹ , Yasunari Kusaka ² , Miyuki Oshimura ¹ , Tomohiro Hirano ¹ , Koichi Ute ¹	S1-013	Unusual Hysteresis in Phase Transition Behavior of Aqueous Solution of Acrylamide Copolymers
	¹ Tokushima University, Japan / ² Sekisui Chemical Co., Ltd., Japan		Containing N-Ethylacrylamide as a Component
S1-005	Preparation of PVDF Thin Films by Modified Langmuir-Shaefer Method and Their Structual Anlysis		Menghao Li, Koki Maeda, Miyuki Oshimura, Tomohiro Hirano, Koichi Ute
			Tokushima University, Japan
	Hayato Watanabe, Hara Mitsuo, Shusaku Nagano, Takahiro Seki	S1-016	Effect of Maleic Anhydride Polyethylene on the Mechanical and Thermal Properties of Kenaf Fiber/Reused-HDPE Composites
	Nagoya University, Japan		Jungho Kim, Byungsoo Park, Jihan Seo, Donghwan Cho
S1-006	Eco-Friendly Fully Bio-Based and Thermoplastic Poly(Butylene Succinate-co-Propylene Succinate) Copolyesters: Effect of Glycerol on Thermal and Mechanical Properties		Kumoh National Institute of Technology, Korea
		S1-019	Piperazine-Based Polyamide Thin-Film Composite Membranes for Nanofiltration
	Li-Yuan Wang, Kai-Hung Hsu, Cyuan-Lun He, Chia-Jung Cho, Chin-Wen Chen, Syang-Peng Rwei,		Shu-Hsien Huang ^{1,2} , Li-Jen Hu ¹ , Kueir-Rarn Lee ² , Juin-Yih Lai ^{2,3}
	Chi-Ching Kuo		¹ National Ilan University, Taiwan / ² Chung Yuan University, Taiwan / ³ National Taiwan University of
	National Taipei University of Technology, Taiwan		Science and Technology, Taiwan
S1-007	Precise Synthesis and Physical Properties of Thermosensitive Block Copolymer Gels	S1-022	Synthesis of Hyperbranched Polyurethane Acrylates via One-Pot Copolymerization
	Tomoki Sakai ¹ , Do Woo Kwon ¹ , Yuto Jochi ¹ , Yukikazu Takeoka ¹ , Takahiro Seki ¹ , Kotaro Satoh ² , Masami Kamigaito ¹		Kuo-Chung Cheng, Wei-Chih Chen, Pei-Shan Cheng, Po-Chih Wang
	¹ Nagoya University, Japan / ² Tokyo Institute of		National Taipei University of Technology, Taiwan

S1-024	Facile Fabrication of Superporous and Biocompatible Hydrogel Scaffolds for Artificial Corneal Periphery Yu-Ping Lee, Chong-Wei Hsu, Leng-Rong Yu, I-Jong Wang, Jia-Yush Yen, Chi-An Dai	S1-031	Electrosynthesis of Copolymer from 1,4-bis ((9H-carbazol-9-yl)methyl)Benzene and (2,3-dihydrothieno[3,4-b][1,4]dioxin-2-yl)Methanol and its Application on Flexible Electrochromic Device
	National Taiwan University, Taiwan		Yu-Xuan Lin ¹ , Zhan-Quan Liu ² , Che-Kai Liu ² ,
S1-025	Polyimide Membranes from Bisphenol		Yu-Chang Huang ¹ , Tzi-yi Wu ² , Chung-Wen Kuo ¹ ¹ National Kaohsiung University of Science and
	Compounds for CO₂ Capture Jen-Yu Lee¹, Shih-Chieh Yeh¹, Chien-Hsin Wu¹,		Technology, Taiwan / ² National Yunlin University of Science and Technology, Taiwan
	Chien-Chieh Hu ² , Shu-Chen Chiang ³ , Ru-Jong Jeng ¹ ¹ National Taiwan University, Taiwan / ² National Taiwan University of Science and Technology, Taiwan / ³ Chung Shan Institute of Science and Technology,	\$1-032	Synthesis and Characterization of Star-Shaped Poly(N-Vinylpyrrolidone) with a β -cyclodextrin Core via RAFT Polymerization
	Chung Shan Institute of Science and Technology, Taiwan		Jianwei Jiang, Longhai Piao
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	Polymers by Living Anionic Addition Reaction Cone-Pot Synthesis of Multi end Functionalized	\$1-033	Facile Synthesis Nitrogen-Doped Microporous Carbons from Polybenzoxazine Resins for CO ₂ Uptake
	Polymers~		Mei-Yin Tsai, Mohamed Gamal Mohamed,
	Kazuki Takahata, Raita Goseki, Takashi Ishizone Tokyo Institute of Technology, Japan		Shiao-Wei Kuo
S1-027	Amino Group Modification of Poly(Vinyl	04.004	National Sun Yat-sen University, Taiwan
	Alcohol) Side Chain by Chemoselective Transesterification Using Zinc Ate Complex	\$1-034	Nanofiber Electrodes for Biosensors: Superhydrophobic Surface Properties, Highly Electrical Conductivity, and their Applications
	Miyuki Oshimura, Ryo Kagitani, Tomohiro Hirano,		for Smart Clothing
	Koichi Ute Tokushima University, Japan		Chen-Yang Huang, Kuan-Yu Chen, Bo-Syuan Huang, Chih-Wei Chiu
S1-028	Syntheses and Self-Assembly of Chiral Diblock Copolymers Deriving from Mandelic Acid		National Taiwan University of Science and Technology, Taiwan
	Jung-Tzu Hsu ¹ , Mei-Chi Huang ¹ , Hsiao-Fang Wang ² , Po-Ting Chiu ² , Jing-Cherng Tsai ¹ , Rong-Ming Ho ²	\$1-036	Precise Synthesis of Poly(isoprene)-Block- Poly(3-alkylthiothiophene)
	1 National Chung Cheng University, Taiwan / 2 National		Tung-Ho Tao, Chi-Yang Chao
	Tsing Hua University, Taiwan		National Taiwan University, Taiwan
S1-029	Comparison of Starch-g-Polyacrylic Acid Hydrogel as smart materials for Removal of Brilliant Green Dye from Aqueous Solution	\$1-037	The Study of Photocurable Biocompatible Polymers Applied in 3D Printing Scaffold Formations
	Woranat Chantharaprathaka,		June-Yo Chen, Yu-Ming Chen,
	Rattanamanee Namthachan, Sayant Saengsuwan Ubon Ratchathani University, Thailand		Kaiser a. Villalobos Gorday, Jane Wang
S1-030	Piezoelectric Properties of Polyvinylidene		National Tsing Hua University, Taiwan
0_ 000	Fluoride Sensors Under High Mechanical Strain Sojeong Kim ¹ , Deuk Yong Lee ¹ , Bae-Yeon Kim ² ,	\$1-038	Synthesis of Poly(Acrylic Acid)-Based Bottlebrush Polymers Toward Binders for Silicon
	Young-Jei Oh ³		Anodes Anjali Nagapadi Preman, Jinha Son, Suk-Kyun Ahn
	¹ Daelim University, Korea / ² Incheon National		Pusan National University, Seoul
	University, Korea / ³Korea Institute of Science and	S1-039	Synthesis of Block Polymer Based on Double-
	Technology, Korea	22 003	Decker–Shaped Polyhedral Silsesquioxanes (DDSQ) Nanocomposites
			Yu-Hsuan Tsao, Wei-Cheng Chen, Shiao-Wei Kuo
			National Sun Yat-Sen University, Taiwan

S1-040	Synthesis of Poly(Acrylic Acid-Block-N- Vinylamine) Amphoteric Block Copolymers and Their Association Behaviors in Water		S1-053	Effect of Wood Particle Size and Additives to the Durability of Wood Plastic Composites
	Sung-Gyu Lee, Joon-Hee Cho, Young-Je Kwark	\$1-054		Maria B. Rizkiana ¹ , Yi-Jun Chen ² , Chang-Hsin Kuo ² , Shu-Kai Yeh ¹
	Soongsil University, Korea			¹ National Taiwan University of Science and Technology, Taiwan / ² National Chia-Yi University, Taiwan
\$1-041	A Stretchable and Transparent Polymer with Dual-healability by Using Disulfide and Diels- Alder Dynamic Bonds		\$1-054	Aligned and Diameter-Reduced Electrospun Polymer Fibers Induced by the Hot-Stretching
	Chun-Ming Yeh, Chun-Hsiu Lin, Zong-You Han, Ho-Hsiu Chou			Method Hsun-Hao Hsu, Yu-Jing Chiu, Hsiao-Fan Tseng,
	National Tsing Hua University, Taiwan			Jia-Wei Li, Jiun-Tai Chen
S1-044	Bistable Photoconductive Self-Assembled Fibers Consisting of π-Conjugated Gelators		S1-055	National Chiao Tung University, Taiwan Synthesis of Cardo-Type Polyurethanes from
	Daisuke Yamaguchi, Takashi Kato		31-033	1,1-Cyclopentylenylbisphenol with Shape
	The University of Tokyo, Japan			Memory Properties
S1-046	Effect of Side Chain and Molecular Weight on			Kuan-Ting Chen, Ying-Chi Huang, Chien-Hsin Wu, Ru-Jong Jeng
	Poly(3-thioalkylthiophene) (P3ST)-Based Polymer Semiconductors for Organic Field Effect			Nation Taiwan University, Taiwan
	Transistors Application Po-Shen Lin ¹ , Tomoya Higashihara ² , Ming-Chou Chen ¹ , Cheng-Liang Liu ¹	g-Chou Chen ¹ ,	\$1-056	Effect of MCF and MWCNT on the Properties of Carbon Fiber/ABS Composites Produced by Extrusion and Injection Molding Processes
	¹ National Central University, Taiwan / ² Yamagata			Youngeun Kim, Gayoung Kim, Donghwan Cho
	University, Japan			Kumoh National Institute of Technology, Korea
S1-049	Preparation of Self-Healing Polymer by Cobalt lons		S1-057	Intelligent and Thermosensitive AuNPs- Pluronic® Nanocapsules for SERS Detection of Biomolecules
	Pei-Yi Lai, Tzu-Hsuan Chiang			Yu-Hsuan Lin ¹ , Yu-Wei Cheng ¹ , Ting-Yu Liu ¹ ,
	National United University, Taiwan			Cheng-Cheung Chen ² , Ming-Chien Yang ³
S1-050	Control of Surfactant Nanostructures by Humidity in Hygroscopic Siloxane Photopolymer			¹ Ming Chi University of Technology, Taiwan / ² National Defense Medical Center, Taiwan / ³ National Taiwan
	Tomoya Takeshita, Mitsuo Hara, Shusaku Nagano, Takahiro Seki			University of Science and Technology, Taiwan
	Nagoya University, Japan	\$1-058	S1-058	FCC or HCP: The Stable Close-Packed Lattice of Crystallographically Equivalent Spherical
S1-051	Flexible DNA-Based Resistive Switching Memory Devices with Bio-Based Polyethylene Furanoate as the Substrate			Micelles in Block Copolymer/Homopolymer Blend
	Jeun-Yan Lam ¹ , Guang-Way Jang ² , Cheng-Jyun Huang ² ,			Li-Ting Chen, Nai-Wen Hsu, Babak Nouri, Hsin-Lung Chen
	Shih-Huang Tung ¹ , Wen-Chang Chen ¹			National Tsing-Hua University, Taiwan
	¹ National Taiwan University, Taiwan / ² Industrial Technology Research Institute, Taiwan		S1-059	Preparation of Hydrophilic-Hydrophobic Tubular Membrane for PEG Solution Dehydration by
S1-052	Synthesis, Characterization, Optical and Electrochemical Properties of the Alternating Copolymers Containing Triphenylvinylphenyl and Fluorinated Triphenylvinylphenyl			Sweep Gas Membrane Distillation
				Yu-Ting Chiu ¹ , Kueir-Rarn Lee ¹ , Hui-An Tsai ¹ , Juin-Yih Lai ^{1,2}
	Substituted 3,6-or 2,7-Carbazoles and Naphthalene Bisimides			¹ Chung Yuan University, Taiwan / ² National Taiwan University of Science and Technology, Taiwan
	Rou-Fang Zeng, Chin-Yang Yu			
	National Taiwan University of Science and Technology, Taiwan			

Sensing Jem-Kun Chen¹, Jun-Ru Zeng¹, Chih-Chia Cheng¹ ¹Arational Taiwan University of Science and Technology, Taiwan / *National Chiao Tung University, Taiwan S1-061. Development of Biocompatible and Hemocompatible UV-Curing Resins for 3D- Printing and its Surface Modification for Artificial Blood Vessels Ting *Va Lui, Be-Yu Chen Ming Chi University of Technology, Taiwan S1-063 Synthesis and Photocatalytic Application of Different Bandgap Nitrogen-Doped Carbon Quantum Dots Mohamed Hammad Elsayed, Ho-Hsiu Chou National Taing Hou University, Taiwan S1-064 of Novel Poly(Ether Susfane) Based on TPA with Dimetriylamino Substituents Chiao-Ling Huang, Mu-Hual Chen, Guey-Sheng Liou National Taiwan University, Taiwan S1-065 S1-065 Photochronic Poly (IPHA)/Silica/Spironaphthooxazine Hybrid Coatings on PMMA Substrates Tail-Yeli Wu, Pei-Ting Chung, Chao Ching Chang Tamkang University, Taiwan S1-066 S1-067 S1-068 Synthesis of Poly(Acrylic Acid)-Based Binders for Silicon Anodes Lithium-Ino Battery Anjali Nagapadi Preman, Jinha Son, Suk-Kyun Ahn Pusan National Taiwan University, Korze S1-069 Controlling Molecular Packaging and Photoluminescence in Solid Films of Conjugated Polymers by Light during Film Formation Chan-Yu Hsu, Arnold Chang-Mou Yang National Taiwan University, Taiwan S1-070 Synthesis and Characterization of Amino Acid- Based Nanoparticles Composed of Stimuli- Responsive Shell and Cross-Linked Cores kelo Katooka, Hideharu Mori Yamagato University, Japon	S1-060	Fabrication of Two-Dimensional Photonic Crystals of Tethered Polyvinyltetrazole on Silicon Surfaces for Visualization in Cu ²⁺ Ion		\$1-072	Selenium-Containing Copolymers with Pendant Vinyl/Epoxy Units by Radical Copolymerization of 2-Vinylselenophene
S1-061 S1-062 S1-063 S1-063 S1-063 S1-063 S1-063 S1-063 S1-063 S1-064 S1-065 S1-065 S1-065 S1-065 S1-065 S1-065 S1-066 S1-066 S1-066 S1-066 S1-066 S1-067 S1-068 S1-068 S1-068 S1-068 S1-068 S1-068 S1-069 S1-068 S1-069 S1-068 S1-069 S1		Jem-Kun Chen ¹ , Jun-Ru Zeng ¹ , Chih-Chia Cheng ² ¹ National Taiwan University of Science and Technology,			Yoshihisa Tokushita, Hideharu Mori
S1-061 Development of Biocompatible and Hemcompatible U-Curing Resins for 3D-Printing and its Surface Modification for Artificial Biood Vessels Ting-Yu Lu, Bo-Yu Chen Ming Chi University of Technology, Toiwan S1-063 Synthesis and Photocatalytic Application of Outnown Development of Biocompatible and Hemcompatible University, of Technology, Toiwan S1-063 Synthesis and Photocatalytic Application of Outnown Development of Biocompatible and Carbon Quantum Dots Mohamed Hammad Elsayed, Ho-Hsiu Chou Notional Tsing Hua University, Toiwan S1-064 Design, Synthesis and Electrochromic Properties of Novel Poly(Ether Sulfone)s Based on TPA with Dimethylamino Substituents Chia-Ling Huang, Mu-Hual Chen, Guey-Sheng Liou National Toiwan University, Toiwan S1-065 Photochromic Poly (DPHA)/Silica/Spironaphthooxazine Hybrid Coatings on PMMA Substrates Tsa+Yeh Wu, Pei-Ting Chung, Chao-Ching Chang Tamkong University, Toiwan S1-066 Salication of Aerogel from Kombucha Bactrial Cellulose: Investigation of Some Properties Canan Karakus, Ayez Zehra Anguz Istanbul University, Toiwan S1-068 Synthesis of Poly(Acrylic Acid)-Based Binders for Silicon Anodes Lithium-Ion Battery Anjali Nagapadi Preman, Jinha Son, Suk-Kyun Ahn Pusan Notional University, Korea S1-069 Controlling Molecular Packaging and Photoluminescence in Solid Films of Conjugated Polymers by Light during Film Formation Chan-Yu Hsu, Arnold Chang-Mou Yang Notional Tsing Hua University, Toiwan National Tsing Hua University, Toiwan Superhydrophilic Tannic Acid/Fe/Polymer Composites for Effective Oil/Water Separation and Doy Adsorption Chin-Feng Wang', Jyun-Ming Shen', Jistrahom Udomsin', Kuo-Jung Lee', Wel-Song Hung', Chine-Chine Hu², Juin-Yih Luñvan', Johnson / Tohung Wann Vantonal Tolwan University of Science and Technology, Tolwan / Y-Shou University of Science and Te					Yamagata University, Japan
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S1-063 Synthesis and Photocatalytic Application of Different Bandgap Nitrogen-Doped Carbon Quantum Dots Mohamed Hammad Elsayed, Ho-Hslu Chou National Tsing Hua University, Tolwan S1-064 Design, Synthesis and Electrochromic Properties of Novel Poly(Ether Sulfone)s Based on TPA with Dimethylamino Substituents Chiao-Ling Huang, Mu-Hual Chen, Guey-Sheng Liou National Taiwan University, Taiwan S1-065 Photochromic Poly (DPHAI/Silica/Spironaphthooxazine Hybrid Coatings on PMMA Substrates Tsai-Yeh Wu, Pei-Ting Chung, Chao-Ching Chang Tamkang University, Tolwan S1-066 Fabrication of Aerogel from Kombucha Bactrial Cellulose: Investigation of Some Properties Canan Karakus, Ayse Zehra Aroguz Istonbul University-Cerrohpaso, Turkey S1-068 Synthesis of Poly(Acrylic Acid)-Based Binders for Silicon Anodes Lithium-Ion Battery Anjali Nagapadi Preman, Jinha Son, Suk-Kyun Ahn Pusan National University, Toiwan S1-069 Controlling Molecular Packaging and Photoluminescence in Solid Films of Conjugated Polymers by Light during Film Formation Chan-Yu Hsu, Arnold Chang-Mou Yang National Tsing Hua University, Toiwan S1-070 Synthesis and Characterization of Amino Acid-Based Nanoparticles Composed of Stimuli-Responsive Shell and Cross-Linked Cores Keita Kataoka, Hideharu Mori Wangata (Hibiersity, Isona) Templated Growth of Carbon Nanotaterian (Tris Ching-Ya Chang, Shih-Ting Luo, Ya-Sen Sun Mational Tsing Hua University, Toiwan S2-004 Fabrication of Porous Polyimide and Carbon Nanotubes Using Anodic Aluminum Oxide Templates Fabrication of Porous Polyimide and Carbon Nanotubes Using Anodic Aluminum Oxide Templates S2-005 Single-Molecule Study Reveals Novel Beads-on-a-String Structure Formed by Multiple Repeat Thrombin Aptamers Jianyu Liu, Wel Feng, Wenke Zhang Jilin University, Tinivan S2-006 Nanotyprids of Ag Nanoparticles/Dendron-Exfoliated Reduced Graphene Oxide for Surface-enhanced Raman Scattering Nanohybrids of Ag Nanoparticles/Dendron-Exfoliated Reduced Graphene Oxide for Surface-enhanced Rama Scattering Nanohybrids of Ag		Ting-Yu Liu, Bo-Yu Chen			Tamkang University, Taiwan
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S1-070 Synthesis and Characterization of Amino Acid-Based Nanoparticles Composed of Stimuli-Responsive Shell and Cross-Linked Cores Keita Kataoka, Hideharu Mori Vamagata University, Japan and Dye Adsorption Chih-Feng Wang¹, Jyun-Ming Shen², Jittrakorn Udomsin¹, Kuo-Jung Lee², Wei-Song Hung¹, Chien-Chieh Hu¹, Juin-Yih Lai¹.³ ¹National Taiwan University of Science and Technology, Taiwan /²I-Shou University, Taiwan /³Chung Yuan		, , , , ,	S	S2-008	
S1-070 Synthesis and Characterization of Amino Acid-Based Nanoparticles Composed of Stimuli-Responsive Shell and Cross-Linked Cores Keita Kataoka, Hideharu Mori Vamagata University Japan Chih-Feng Wang¹, Jyun-Ming Shen², Jittrakorn Udomsin¹, Kuo-Jung Lee², Wei-Song Hung¹, Chien-Chieh Hu¹, Juin-Yih Lai¹.³ ¹National Taiwan University of Science and Technology, Taiwan /²I-Shou University, Taiwan /³Chung Yuan		,			
Based Nanoparticles Composed of Stimuli- Responsive Shell and Cross-Linked Cores Keita Kataoka, Hideharu Mori Yamagata University, Japan	\$1-070				
Taiwan / 2I-Shou University, Taiwan / 3Chung Yuan	31-070	Based Nanoparticles Composed of Stimuli-			
Vamagata University Japan		Keita Kataoka, Hideharu Mori			
		Yamagata University, Japan			

S2-009	Spontaneously Generated SAM Treatment via Blending and Additive Migration for Top- Contact Organic Field Effect Transistor Hwasung Lee	\$3-00	Design and Synthesis of Bio-Based High- Performance Tri-Oxazine Benzoxazine Resin via Natural Renewable Resources Mengchao Han, Kan Zhang
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62.022	Hanbat National University, Korea	62.0	Jiangsu University, China
S2-023	Effects of Counterion Valency and Ionic Strength on DNA-Dendrimer Interaction	\$3-00	O2 Curved Block Copolymer Nanodiscs: Structure Transformations in Cylindrical Nanopores Using the Nonsolvent-Assisted Template Wetting
	Bradley W. Mansel, Yen-Chih Huang, Chen-Che Yang, Hsin-Lung Chen		Method
	National Tsing Hua University, Taiwan		Yu-Liang Lin, Ming-Hsiang Cheng, Chun-Wei Chang, Chien-Wei Chu, Chih-Ting Liu, Jiun-Tai Chen
S2-024	Residual Stresses and Young's Moduli of Ultrathin Polymer Films from Dewetting Instability on Soft Rubber		National Chiao Tung University, Taiwan
		S3-00	
	Yu-Jr Huang, Wei-Cheng Lai, Arnold Chang-Mou Yang		with Effective Self-Healing Property
	National Tsing Hua University, Taiwan		Wen-Lu Fan, Chih-Chia Cheng
S2-025	Quasi-Uniform Phase Behavior in Polymer Blends via Molecular Spatial Obstruction – A		National Taiwan University of Science and Technology, Taiwan
	"High-Entropy Polymers" Approach	S3-00	04 Embedded Self-Assembled Nanofibrillar
	Yu-Jr Huang, Jien-Wei Yeh, Arnold Chang-Mou Yang		Networks in Poly(Ethylene Glycol) with
	National Tsing Hua University, Taiwan		Reversibly Tunable Phase Behaviors and Properties
S2-026	Wet-and Dry-Brush Solubilization Behavior of		Wei-Chi Lai, Chun-Wai Chang, Chi-Yuan Hsueh
	Diblock Copolymer/Homopolymer Blend		Tamkang University, Taiwan
	Displaying Lower Critical Ordering Transition Yu-Hsuan Lin, Hsin-Lung Chen	S3-00	
	National Tsing-Hua University, Taiwan		with Liquid Crystalline Core
S2-027	Precise Synthesis of Photo-Active Zwitterionic		Yoko Mizoue, Shin-ichi Yusa
02 027	Polymer Dormant toward Hydrophilic		University of Hyogo, Japan
	Transparent Coatings Satoshi Koishi, Masakazu Iijima, Takeo Suga,	S3-00	O6 Structurally Well-Defined Isotactic Poly(2- vinylpyridine)-b-Polystyrene
	enichi Oyaizu		Hsiang-Ju Wang, Ting-Yi You
	Waseda University, Japan		National Chung Cheng University, Taiwan
S2-028	Antibacterial and Antifouling Characterizations	S3-00	07 Synthesis of Dendrons with Peripheral
	of Conducting Polymer-Graphene Oxide-PDDA Nanocomposites Films by Electro-Chemical Polymerization Xin-Yao Peng ¹ , Yu-Wei Cheng ¹ , Ting-Yu Liu ¹ , Li-Ying Huang ² , Ming-Chien Yang ²		Adamantane Functional Groups for Shape Memory Materials
			Tsung-Yu Yu, Chien-Hsin Wu, Shih-Chieh Yeh,
			Ru-Jong Jeng
			National Taiwan University, Taiwan
	¹ Ming Chi University of Technology, Taiwan / ² National Taiwan University of Science and Technology, Taiwan	\$3-00	08 Synthesis of Nonionic Waterborne Epoxy-Based Polymers: Structural Design and Applications
S2-029	Springtail-Inspired Patterned Surfaces and Their Applications		Sin-Huei Chiu, Chien-Hsin Wu, Ying-Chi Huang, Ru-Jong Jeng
	Wen-Jia Zhong, Po-Cheng Chen, Yi-Chang Chung	\$3-009	National Taiwan University, Taiwan
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S2-030	Passivation of Perovskite Solar Cell Defects by Oligomer Based Additives		Copolymers with Self-Assembled Nanostructures as Tougheners for Epoxy Resins
	Chih-Ping Chen ¹ , Jie-Min Lan ¹ , Chung-Lin Chung ¹ , Yang-Yen Yu ¹ , Hsiang-Lin Hsu ² , Bing-Huang Jiang ² ,		Chin-Ting Fan ¹ , Feng-Ming Hsieh ² , Mei-Hua Wang ² , Tsung-Han Hsieh ¹ , Li-Cheng Jheng ¹
	Ru-Jong Jeng ²		¹ National Kaohsiung University of Science and
	¹ Ming Chi University of Technology, Taiwan / ² National Taiwan Unieristy, Taiwan		Technology, Taiwan / ² Industrial Technology Research Institute, Taiwan

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\$3-010	Supramolecular Polymer Membranes for Filtration of Fluorescent Dyes Yi-Hsuan Chang, Chih-Chia Cheng National Taiwan University of Science and Technology, Taiwan	S3-020		Polyamide Thin-Film Composite Membranes: Effects of Diamine Chemical Structure and Fabrication Parameter on Forward Osmosis Performance Shu-Hsien Huang ^{1,2} , Qing-Yi Huang ¹ , Kueir-Rarn Lee ² ,
\$3-011	Physically Cross-Linked Supramolecular Membrane with Adjustable Properties Cheng-You Wu, Xiu-Jing Yang, Chih-Chia Cheng			Juin-Yih Lai ^{2,3} ¹ National Ilan University, Taiwan / ² Chung Yuan University, Taiwan / ³ National Taiwan University of Science and Technology, Taiwan
	National Taiwan University of Science and Technology, Taiwan		S3-021	Synthesis of Isotactic Poly(1-Butene)-Block- Poly(2-Vinylpyridine) for Nanolithagraphy
S3-012	Synthesis and Characterization of Graphene Oxide, Reduced Graphene Oxide and Functionalized Graphene Oxide as Smart Materials for Dye Removal Application			Applications Guo-Yu Gao, Jing-Cherng Tsai, Sheng-Chang Chang National Chung Cheng University, Taiwan
	Manmanut Srikaew, Sayan Saengsuwan Ubon Ratchathani University, Thailand		S3-022	Electrosynthesis of Copolymer from Trans-1,2-di (2-Thienyl)Ethylene and 2-(2-Thienyl)Furan and its Application on Electrochromic Device
S3-014	PNIPAAm Star Polymer and its Thermo- Responsive Behavior in Aqueous Solution			Shu-Chien Fan ¹ , Ho-Rei Chen ¹ , Pin-Hsuan Chen ¹ , Yu-Chang Huang ¹ , Chung-Wen Kuo ¹ , Tzi-Yi Wu ²
	Komol Kanta Sharker ¹ , Yuri Toyama ² , Sayuri Takeshima ² , Shokyoku Kanaoka ² , Shohei Ida ² , Shin-ichi Yusa ¹ ¹ University of Hyogo, Japan / ² The University of Shiga			¹ National Kaohsiung University of Science and Technology, Taiwan / ² National Yunlin University of Science and Technology, Taiwan
\$3-015	Prefecture, Japan Block-Copolymer Templated Gold		S3-023	Study on the Effect of Additive on the Oil/Water Emulsion Separation Performance through
	Nanostructures for Molecular Sensing through SERS Spectroscopy		\$3-024	Polyacrylonitrile Asymmetric Membranes Shu-Hsien Huang ^{1,2} , Tse-An Chou ¹ , Kueir-Rarn Lee ² ,
	Belda Amelia Junisu, Ya-Sen Sun National Central University, Taiwan			Juin-Yih Lai ^{2,3} ¹ National Ilan University, Taiwan / ² Chung Yuan
\$3-016	Preparation of Honeycomb-Like Shape Memory Surface by Breath Figure Method			University, Taiwan / ³National Taiwan University of Science and Technology, Taiwan
	Chung-Ta Hsieh, Chien-Hsin Wu, Shih-Huang Tung, Ru-Jong Jeng			Helical Superstructures Self-Assembled by Frustrated ABCBA Linear Pentablock Terpolymers
S3-018	National Taiwan University, Taiwan Characterization and Nanofiltration			Yu-Xin Xiao ¹ , Tzu-Yang Hsu ¹ , Ching-I Huang ¹ , An-Chang Shi ²
	Performance of Polyamide Composite Membrane Prepared by Interfacial Polymerization Using Polyamine Monomers			¹ National Taiwan University, Taiwan / ² McMaster University, Canada
	Shu-Hsien Huang ^{1,2} , Han-Chieh Huang ¹ , Kueir-Rarn Lee ² , Juin-Yih Lai ^{2,3}		S3-025	Thermal Gelation of Lecithin Organosols Induced by Inorganic Salts
	¹ National Ilan University, Taiwan / ² Chung Yuan University, Taiwan / ³ National Taiwan University of			Chia-Yi Lin, Shih-Huang Tung National Taiwan University, Taiwan
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S3-019	Study on the Effect of Fabrication Parameter on Characterization and Oil/Water Emulsion Separation Performance through Ethyl Cellulose			Hydrogen Bonding Strategies for Pressure Sensors
	Asymmetric Membranes Shu-Hsien Huang ^{1,2} , Guan-Ting Lee ¹ , Kueir-Rarn Lee ² ,			Chun-Hsiu Lin, Chun-Ming Yeh, Zong-You Han, Ho-Hsiu Chou
	Juin-Yih Lai ^{2,3}			National Tsing Hua University, Taiwan
	¹ National Ilan University, Taiwan / ² Chung Yuan University, Taiwan / ³ National Taiwan University of			

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	Han Bi Lee, Nara Han, Won San Choi		
	Hanbat National University, Korea		
S3-028	Iron Oxide/Sponge Absorbent for Fast Cleanup of Highly Hazardous Aqueous Solutions		
	Sol Park, Nara Han, Won San Choi		
	Hanbat National University, Korea		
S3-029	Photoresponsive and Crystallization Behaviors of Azobenzene/Polyethylene Glycol Complexes with Hydrogen-Bonding Interactions		
	Jing-Yao Ma, Hsin-Tzu Tai, Yen-Chun Lin, Chieh-Tsung Lo		
	National Cheng Kung University, Taiwan		
\$3-042	Microporous Carbons Templated by PEO-b-PBLG Block Copolymers as Electrode Materials for Supercapacitors		
	Tzu-Ching Yu, Ahmed F. M. EL-Mahdy, Mohamed Gamal Mohamed, Shiao-Wei Kuo		
	National Sun Yat-sen University, Taiwan		
S3-043	Self-Assembly of Water-Insoluble Molecules in Water into Stable Colloid		
	Chin-Yi Chen, Wei-Cheng Peng, Chien-Lung Wang		
	National Chiao Tung University, Taiwan		
S3-044	Mechanical Motions of Azobenzene-Containing Supramolecular Materials		
	Yi-Chia Lin, Masaki Horie		
	National Tsing Hua University, Taiwan		
S3-045	Fabricating the Polymeric Membranes with Sub- 10 nm Pore Size		
	Deuk Ju An, Su Bin Choi, Kwang Han Yoon, Dong Ik Lee, Seung Hyun Kim		
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S3-046	Adaptive Molecular Quaternary Clips Made by Pyrene and NDI Functionalized POSS		
	Tsung-Kai Yang, Hong-Yu Hsu, Meng-Ju Hsieh, Chien-Lung Wang		
	National Chiao Tung University, Taiwan		
S3-047	Nano-Confined Polymerization in Water Producing Polymetric Nanoparticle		
	Jyun-Hao Sie, Wei-Ting Chang		
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\$3-048	A Novel Photoswitchable and Stimuli- Responsive Supramolecular [2] Pseudo- Rotaxane Polymer Based on Pillar [5] arene Host and Spiropyran Guest		
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	National Chiao Tuna University Taiwan		

National Chiao Tung University, Taiwan

53-049	Highly Stretchable and Ultrafast Self-Healing Conductive Supramolecular Gels as Wearable Health Monitoring Sensors
	Amir Khan ¹ , Ravinder Reddy K ² , Chinmayananda Gouda ¹ , Dipti Gupta ² , Hong-Cheu Lin ¹
	¹ National Chiao Tung University, Taiwan / ² Indian Institute of Technology Bombay, India
S3-071	Fabrication of Chlorine e6-loaded Perfluorocarbon Nanoparticles for Enhancement of Singlet Oxygen Generation
	Hao-Kai Huang, Tung Wei-Ting, Ching-Yi Chen
	National Chung Cheng University, Taiwan
53-073	Sugar-Polyterpene Block Copolymers for Sub-10 nm Microphase Separation
	Ryoya Komaki, Nao Kawakami, Takuya Isono, Kenji Tajima, Takuya Yamamoto, Toshifumi Satoh
	Hokkaido University, Japan