

Poster Session I

Wednesday, October 27th

PI-1	<p>RADIATION GRAFTING OF THERMOCONTROLLED POLYMER ONTO POLYPROPYLENE FILMS</p> <p style="text-align: center;"><u>J. KOMASA</u>, S. KADLUBOWSKI, P. ULANSKI, J.M. ROSIAK</p> <p><i>Institute of Applied Radiation Chemistry, Technical University of Lodz, Wroblewskiego 15, 93-590 Lodz, Poland- jkomasa@mitr.p.lodz.pl</i></p>
PI-2	<p>STRUCTURAL CHANGES OF POLY(ETHYLENE TEREPHALATE) DURING PYROLYSIS AT LOW TEMPERATURES</p> <p style="text-align: center;"><u>E. ANOIKTOMATI</u>, <u>M. PISANIA</u>, L. ZOUUMPOULAKIS, J. SIMITZIS</p> <p><i>School of Chemical Engineering, National Technical University of Athens, 9 Heroon Polytechniou str., Zografou Campus, 157 73, Athens (Greece) – simj@chemeng.ntua.gr</i></p>
PI-3	<p>COMPOSITE MATERIALS BASED ON NOVOLAC RESIN, CARBON NANOTUBES AND ORGANIC BIOMASS AS PRECURSORS FOR CARBONACEOUS MATERIALS</p> <p style="text-align: center;"><u>A. PIKASI</u>, M. PISANIA, S. KARAMANOU, P. GEORGIU, L. ZOUUMPOULAKIS, J. SIMITZIS</p> <p><i>School of Chemical Engineering, National Technical University of Athens, 9 Heroon Polytechniou str., Zografou Campus, 157 73, Athens (Greece) – simj@chemeng.ntua.gr</i></p>
PI-4	<p>MANUFACTURE OF COMPOSITE MATERIALS OF NOVOLAC RESIN - CARBON FIBRES - CARBON NANOTUBES AND THEIR MECHANICAL AND ELECTRICAL PROPERTIES</p> <p style="text-align: center;"><u>M. PISANIA</u>, P. GEORGIU, L. ZOUUMPOULAKIS, J. SIMITZIS</p> <p><i>School of Chemical Engineering, National Technical University of Athens, 9 Heroon Polytechniou str., Zografou Campus, 157 73, Athens (Greece) – simj@chemeng.ntua.gr</i></p>
PI-5	<p>SYNTHESIS OF PMMA MAGNETIC MICROSFERES VIA SUSPENSION POLYMERIZATION AND THEIR CHARACTERIZATION WITH XRD, FTIR AND SEM</p> <p style="text-align: center;"><u>S. KARAGIOVANAKI</u>, G. MITSIS, J. SIMITZIS, L. ZOUUMPOULAKIS</p> <p><i>School of Chemical Engineering, National Technical University of Athens, 9 Heroon Polytechniou str., Zografou Campus, 157 73, Athens (Greece) – karagiov@central.ntua.gr</i></p>
PI-6	<p>NITRILE CYCLIZATION REACTIONS OF POLYACRYLONITRILE FIBRES THERMO-OXIDATIVELY TREATED BY CONTINUOUS PROCESS</p> <p style="text-align: center;"><u>G. MITSIS</u>, S. SOULIS, J. SIMITZIS¹</p> <p><i>School of Chemical Engineering, National Technical University of Athens, 9 Heroon Polytechniou str., Zografou Campus, 157 73, Athens (Greece) – simj@chemeng.ntua.gr</i></p>
PI-7	<p>CARBONACEOUS ELECTRODES DERIVED FROM COMPOSITES OF NOVOLAC RESIN WITH OLIVE STONES BIOMASS FOR APPLICATION IN ETHANOL OXIDATION OF FUEL CELLS</p> <p style="text-align: center;"><u>A. PIKASI</u>, P. GEORGIU, J. SIMITZIS</p> <p><i>School of Chemical Engineering, National Technical University of Athens, 9 Heroon Polytechniou str., Zografou Campus, 157 73, Athens (Greece) – simj@chemeng.ntua.gr</i></p>
PI-8	<p>MANUFACTURE AND CHARACTERIZATION OF COMPOSITE MATERIALS CONSISTED OF THERMOSETTING RESINS WITH PYROMETALLURGICAL SLAG AS ADDITIVE</p> <p style="text-align: center;"><u>E. VORRISI</u>, <u>L. ZOUUMPOULAKIS</u>, J. SIMITZIS</p> <p><i>School of Chemical Engineering, National Technical University of Athens, 9 Heroon Polytechniou str., Zografou Campus, 157 73, Athens (Greece) – simj@chemeng.ntua.gr</i></p>
PI-9	<p>ELECTROPOLYMERIZATION OF THIOPHENE ONTO MODIFIED CARBON FIBRES ELECTRODES</p> <p style="text-align: center;"><u>D. TRIANTOU</u>, <u>P. GEORGIU</u>, S. SOULIS, J. SIMITZIS</p> <p><i>School of Chemical Engineering, National Technical University of Athens, 9 Heroon Polytechniou str., Zografou Campus, 157 73, Athens (Greece) – simj@chemeng.ntua.gr</i></p>

PI-10	<p style="text-align: center;">AMPHIPHILIC BLOCK COPOLYMER SELF-ASSEMBLED NANOTEMPLATES FOR SIZE- AND SHAPE-CONTROLLED GROWTH OF INORGANIC NANOSTRUCTURES</p> <p style="text-align: center;"><u>A. PERDIKAKI</u>^{1,2}, E. VERMISOGLOU¹, G.N. KARANIKOLOS¹, N. BOUKOS², J. SIMITZIS³, N. KANELLOPOULOS¹</p> <p style="text-align: center;"><i>Institutes of ¹Physical Chemistry and ²Materials Science, Demokritos National Research Center, 15310 Athens (Greece) - aperdikaki@chem.demokritos.gr</i></p> <p style="text-align: center;"><i>³School of Chemical Engineering National Technical University of Athens, 157 80 Athens (Greece)</i></p>
PI-11	<p style="text-align: center;">STUDY OF THE EFFECT OF MAGNETIC FIELD ON GAS SEPARATION PERFORMANCE OF MAGNETIC NANOCOMPOSITE POLYMERIC AND CARBON HOLLOW FIBER MEMBRANES</p> <p style="text-align: center;"><u>N. HELIOPoulos</u>¹, E. FAVVAS¹, S. PAPAGEORGIOU¹, D. PETRIDIS², N. KANELLOPOULOS¹</p> <p style="text-align: center;"><i>¹Institute of Physical Chemistry, N.C.S.R. "Demokritos", 15310, Aghia Paraskevi, Attica, Greece - nhelopoulos@chem.demokritos.gr</i></p> <p style="text-align: center;"><i>²Institute of Materials Science, N.C.S.R. "Demokritos", 15310, Aghia Paraskevi, Attica, Greece</i></p>
PI-12	<p style="text-align: center;">INVESTIGATION OF STRUCTURAL PROPERTIES OF PVA/BENTONITE NANOCOMPOSITES USING NEUTRON DIFFRACTION</p> <p style="text-align: center;"><u>A. SAPALIDIS</u>, F. KATSAROS, T. STERIOTIS AND N. KANELLOPOULOS</p> <p style="text-align: center;"><i>¹Institute of Physical Chemistry, N.C.S.R. "Demokritos", 15310, Aghia Paraskevi, Attica, Greece</i></p>
PI-13	<p style="text-align: center;">POLYMERIZATION KINETICS OF POLY(STYRENE-CO-METHYL METHACRYLATE) BASED NANOCOMPOSTES PREPARED BY <i>IN SITU</i> BULK POLYMERIZATION</p> <p style="text-align: center;"><u>V. MPOZANI, A.K. NIKOLAIDIS, D.S. ACHILIAS</u></p> <p style="text-align: center;"><i>Laboratory of Organic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece - axilias@chem.auth.gr</i></p>
PI-14	<p style="text-align: center;">EFFECT OF THE ORGANO-MODIFIED NANO-REINFORCEMENT ON THE THERMAL PROPERTIES OF POLY(3-HYDROXYBUTYRATE)-BASED HYBRID MATERIALS</p> <p style="text-align: center;"><u>E. PANAYOTIDOU</u>^{1,2}, <u>D.S. ACHILIAS</u>¹, I. ZUBURTIKUDIS²</p> <p style="text-align: center;">¹Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki 54124, Greece, E-mail: axilias@auth.gr</p> <p style="text-align: center;">²Department of Industrial Design Engineering, TEI of Western Macedonia, Kozani 50100, Greece</p>
PI-15	<p style="text-align: center;">STUDY OF COALESCENCE DURING PVDF/PMMA BLEND PREPARATION</p> <p style="text-align: center;"><u>S. FARZANEH, M. ASGARPOUR, A.TCHARHTCHI</u></p> <p style="text-align: center;"><i>Arts et Métiers ParisTech 151 bd de l'Hôpital 75013 Paris-France</i></p>
PI-16	<p style="text-align: center;">WATER UPTAKE CHARACTERISTICS INTO THE TS-1 ZEOLITE EFFECT ON PHYSICAL PROPERTIES AND BIODEGRADABILITY FOR POLY(BUTYLENE SUCCINATE) (PBS)-TITANIUM SILICATE (TS-1) ZEOLITE HYBRID MATERIALS</p> <p style="text-align: center;"><u>S.-Y. HWANG</u>¹, E. -S. YOO², S.-S. IM^{1*}</p> <p style="text-align: center;">¹<i>Department of Fiber and Polymer engineering, College of Engineering, Hanyang University, 17 haengdang-dong, seongdong-Gu, Seoul (Republic of Korea) - imss007@hanyang.ac.kr</i></p> <p style="text-align: center;">²<i>KITECH textile Ecology Laboratory, 1271-18 Sa 1 Dong, Sangrokgu, Ansan City, Gyungido, (Republic of korea)</i></p>
PI-17	<p style="text-align: center;">THE INFLUENCE OF TACTICITY ON STATICS AND DYNAMICS OF POLYMER MELTS: RESULTS FROM ATOMISTIC AND COARSE-GRAINED SIMULATIONS</p> <p style="text-align: center;"><u>D. FRITZ</u>¹, V. HARMANDARIS², N. VAN DER VEGT¹, K. KREMER¹</p> <p style="text-align: center;">¹<i>Max Planck Institute for Polymer Research, Ackermannweg 10, 55128 Mainz, Germany - fritz@mpip-mainz.mpg.de</i></p> <p style="text-align: center;">²<i>Department of Applied Mathematics, University of Crete, 71110 Heraklion, Greece</i></p>
PI-18	<p style="text-align: center;">POLYMERS UNDER EQUILIBRIUM AND NON-EQUILIBRIUM CONDITIONS: FROM ATOMISTIC TO COARSE-GRAINED MODELS</p> <p style="text-align: center;"><u>V. HARMANDARIS</u>^{1,2}, K. KREMER², C. BAIG³</p>

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PI-19	<p>PROPAGATION RATE CONSTANTS OF SOME MONOMERS IN AQUEOUS SOLUTION STUDIED BY PULSED RADIATION POLYMERIZATION IN CONJUNCTION WITH SIZE-EXCLUSION CHROMATOGRAPHY</p> <p><u>N. BARTOSZEK</u>, S. KADŁUBOWSKI, P. UŁAŃSKI, J.M. ROSIAK</p> <p><i>Institute of Applied Radiation Chemistry, The Faculty of Chemistry, Technical University of Łódź, Wróblewskiego 15, 90-924 Łódź (Poland) – nbartoszek@mitr.p.lodz.pl</i></p>
PI-20	<p>TAILORING THE POROUS STRUCTURE OF POLY(D,L LACTIC ACID)/CLAY NANOCOMPOSITES</p> <p>A. TSIMPLIARAKI¹, I. TSIVINTZELIS¹, S. MARRAS², I. ZUBURTIKUDIS², C. PANAYIOTOU¹</p> <p>¹<i>Department of Chemical Engineering, Aristotle University of Thessaloniki, 54124 (Greece) – cpanayio@auth.gr</i></p> <p>²<i>Department of Industrial Engineering, TEI of Western Macedonia, Kozani 50100 (Greece)</i></p>
PI-21	<p>THERMODYNAMIC CHARACTERIZATION OF FLUORINATED METHACRYLIC POLYMERS</p> <p>S.K. PAPADOPOULOU¹, <u>C. PANAYIOTOU</u>¹</p> <p>¹ <i>Department of Chemical Engineering, Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece – cpanayio@auth.gr</i></p>
PI-22	<p>CHARACTERIZATION OF THE VAPOR SORPTION PROPERTIES OF METHACRYLIC AND SILOXANE POLYMERS BY AN OPTICAL METHOD</p> <p><u>K. MANOLI</u>¹, P. OIKONOMOU², D. GOUSTOURIDIS², I. RAPTIS², M. SANOPPOULOU¹.</p> <p>¹ <i>Institute of Physical Chemistry NCSR “Demokritos”, Ag. Paraskevi Attikis, 15310, Athens (Greece) – kikimanoli@chem.demokritos.gr</i></p> <p>² <i>Institute of Microelectronics, NCSR “Demokritos”, Ag. Paraskevi Attikis, 15310, Athens (Greece)</i></p>
PI-23	<p>EXPERIMENTAL AND THEORETICAL STUDY OF THE RELEASE KINETICS OF DIPHYLLINE FROM SWELLING POLY (VINYL ALCOHOL) MATRICES</p> <p><u>A. HASIMI</u>^{1,2}, K. PAPADOKOSTAKI¹, M. SANOPPOULOU¹</p> <p>¹<i>Institute of Physical Chemistry, NCSR “Demokritos”, 15310 Ag. Paraskevi Attikis, Athens,(Greece)</i></p> <p>² <i>Department of Pharmacy, University “Kristal”, P.O.Box 1521; Tirana (Albania) a.hasimi@kristal.edu.al</i></p>
PI-24	<p>FROM ATOMISTIC TRAJECTORIES TO PRIMITIVE PATHS TO THE REPTATION THEORY: TOPOLOGICAL AND DYNAMICAL MAPPING OF MOLECULAR DYNAMICS SIMULATION DATA ONTO THE TUBE MODEL</p> <p>C. BAIG, P.S. STEPHANOU, G. TSOLOU, <u>V.G. MAVRANTZAS</u></p> <p><i>Department of Chemical Engineering, University of Patras & FORTH-ICE/HT, Patras, GR 26504, (Greece) - vlasis@chemeng.upatras.gr</i></p>
PI-25	<p>MELT STRUCTURE AND DYNAMICS IN MELTS OF UNENTANGLED POLYETHYLENE RINGS: ROUSE THEORY, ATOMISTIC MOLECULAR DYNAMICS SIMULATION, AND COMPARISON WITH THE LINEAR ANALOGUES</p> <p>G. TSOLOU, N. STRATIKIS, C. BAIG, P.S. STEPHANOU, <u>V.G. MAVRANTZAS</u></p> <p><i>Department of Chemical Engineering, University of Patras & FORTH-ICE/HT, Patras, GR 26504, (Greece) - vlasis@chemeng.upatras.gr</i></p>
PI-26	<p>FROM RODS TO RANDOM WALKS: ONSET OF ENTANGLEMENTS REVISITED</p> <p><u>C. TZOUMANEKAS</u>^{1,2}, F. LAHMAR³, B. ROUSSEAU³, D. N. THEODOROU^{1,2}</p> <p>¹ <i>Department of Materials Science and Engineering, School of Chemical Engineering, National Technical University of Athens, Zografou Campus, 15780 Athens (Greece) -</i></p>

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PI-27	<p>BROWNIAN DYNAMICS SIMULATIONS ON SELF-ASSEMBLY BEHAVIOR OF H-SHAPED COPOLYMERS AND TERPOLYMERS.</p> <p>O. MOULTOS, L. N. GERGIDIS AND <u>C. VLAHOS</u></p> <p><i>Department of Chemistry, University of Ioannina, 45110 Ioannina, Greece</i></p>
PI-28	<p>A MOLECULAR DYNAMICS SIMULATION STUDY ON SI-RNA/TEA-PAMAM DENDRIMER COMPLEXATION</p> <p><u>K. KARATASOS</u>^{1,2}, S. PRICL², P. POSOCO² AND E. LAURINI</p> <p>¹<i>Chemical Engineering Department, Aristotle University of Thessaloniki, University Campus, 54124, Thessaloniki (Greece) – karatas@eng.auth.gr</i></p> <p>² <i>MOSE-DMRN, University of Trieste, Piazzale Europa 1, 34127 Trieste, (Italy)</i></p>
PI-29	<p>YIELDING OF COLLOIDAL GLASS UNDER LARGE AMPLITUDE OSCILLATORY SHEAR¹</p> <p><u>A. S. POULOS</u>¹, F. RENOU¹, N. KOUMAKIS¹, J. STELLBRINK², G. PETEKIDIS¹</p> <p>¹<i>Institute of Electronic Structure and Laser, FORTH, 70013 Heraklion (Greece) - aspoulos@iesl.forth.gr</i></p> <p>²<i>Institute für Festkörperforschung, FZ Jülich, Julich, Germany</i></p>
PI-30	<p>STRUCTURE AND DYNAMICS IN SUSPENSIONS OF SOFT COLLOIDS</p> <p><u>A. PAMVOUXOGLOU</u>^{1, 2,+} AND G. PETEKIDIS^{1, 2,*}</p> <p>¹<i>FORTH/ Institute of Electronic Structure and Laser, P.O Box 1527, 71110 Heraklion, Greece</i></p> <p>²<i>Department of Materials Science and Technology, University of Crete, Heraklion, Greece</i></p> <p>^{+pamvou@iesl.forth.gr}, ^{*georgp@iesl.forth.gr}</p>
PI-31	<p>FRiction WELDING OF PLASTIC PIPES: MONITORING OF PROCESS PARAMETERS AND QUALITY EVALUATION OF THE JOINT SECTION VIA PULL-OUT TESTS AND MICROTOMOGRAPHY</p> <p><u>S. SOFOU</u>¹, E. PSIMOLOFITIS¹, P. PHILIMIS¹, H. DOUMANIDIS²</p> <p>¹ <i>CNE Technology Center, Demokratias 5, Ergates Industrial Estate, 2643 Ergates (Cyprus) – s.sofou@cnetechnology.com</i></p> <p>² <i>Department of Mechanical and Manufacturing Engineering, University of Cyprus, P.O. Box 20537, 1678 Nicosia (Cyprus)</i></p>
PI-32	<p>IMIDAZOLE BEARING AROMATIC POLYETHERS TARGETING HIGH TEMPERATURE PEM-FC APPLICATIONS</p> <p><u>A. ANDREOPOLOU</u>^{1,2}, G. DRAKOS¹, M. DALETOU²</p> <p>¹<i>Department of Chemistry, University of Patras, GR-26500 Rio-Patras, Greece – kandreop@chemistry.upatras.gr</i></p> <p>²<i>Institute of Chemical Engineering and High Temperature Chemical Processes, ICE/HT-FORTH, Post Office Box 1414, GR-26504 Rio-Patras, Greece</i></p>
PI-33	<p>ON THE CRYSTALLINITY AND CHAIN CONFORMATIONS IN PEO / LAYERED SILICATE NANOCOMPOSITES</p> <p><u>K. ANDRIKOPOULOS</u>¹, K. CHRISSOPOULOU², S. BOLLAS², S. FOTIADOU^{2,3}, G. VOYIATZIS⁴, S.H. ANASTASIADIS^{2,5}</p> <p>¹ <i>Physics Division, School of Technology, Aristotle University of Thessaloniki, Thessaloniki, (Greece)-kandriko@gen.auth.gr</i></p> <p>²<i>Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, P.O. Box 1527, 711 10, Heraklion, Crete (Greece)</i></p> <p>³ <i>Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki (Greece)</i></p> <p>⁴ <i>Institute of Chemical Engineering and High Temperature Chemical Processes, Foundation for Research and Technology-Hellas, P.O. Box 1414 Patras (Greece)</i></p> <p>⁵ <i>Department of Chemistry, University of Crete, P.O. Box 2208, 710 03 Heraklion Crete (Greece)</i></p>

	CRYSTALLIZATION KINETICS IN POLYMER / LAYERED SILICATE NANOCOMPOSITES K. CHRISSOPOULOU¹, H. PAPANANOU^{1,2}, E. PAVLOPOULOU¹, G. PORTALE³, W. BRAS³, S.H. ANASTASIADIS^{1,4}
PI-34	¹ <i>Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, P.O. Box 1527, 111 10 Heraklion, Crete (Greece) – kiki@iesl.forth.gr</i> ² <i>Department of Chemical Engineering, Aristotle University of Thessaloniki, 541 24 Thessaloniki (Greece)</i> ³ <i>ESRF, DUBBLE CRG, Netherlands Organization for Scientific Research (NWO), Grenoble (France)</i> ⁴ <i>Department of Chemistry, University of Crete, 710 03 Heraklion Crete (Greece)</i>
PI-35	COLLAPSE TRANSITIONS IN THERMOSENSITIVE MULTI-BLOCK COPOLYMERS: A MONTE CARLO STUDY A. N. RISSANOU¹, E. MANIAS², I.A. BITSANIS¹ ¹ <i>Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, P.O. Box 1527, 711 10 Heraklion Crete, (Greece) – rissanou@iesl.forth.gr</i> ² <i>Department of Materials Science & Eng., Pennsylvania State University, University Park, PA, (USA).</i>
PI-36	INFLUENCE OF MOLECULAR ARCHITECTURE ON THE PROPERTIES OF POLYMER THIN FILMS E. GLYNOS¹, B. FRIEBERG², H. OH¹, M. LIU³, D.W. GIDLEY³ AND P.F. GREEN¹ ¹ <i>Department of Materials Science and Engineering, University of Michigan, Ann Arbor, Michigan 48109, USA</i> ² <i>Macromolecular Science and Engineering, University of Michigan, Ann Arbor, Michigan 48109, USA</i> ³ <i>Department of Physics, University of Michigan, Ann Arbor, Michigan, USA</i>
PI-37	SELF ASSEMBLY AND MORPHOLOGY OF PH-SENSITIVE HETEROARM STAR BLOCK TERPOLYMERS IN AQUEOUS MEDIA Z. IATRIDI¹, C. TSITSILIANIS^{1,2} ¹ <i>Department of Chemical Engineering, University of Patras, 26504, Patras (Greece) – ziatridi@gmail.com, ct@chemeng.upatras.gr</i> ² Institute of Chemical Engineering and High Temperature Chemical Processes, ICE/HT-FORTH, P.O. Box 1414, 26504 Patras (Greece)
PI-38	DESIGN OF BLOCK-RANDOM SEGMENTED POLYMERS Z. IATRIDI¹, G. GOTZAMANIS¹ C. TSITSILIANIS^{1,2} ¹ <i>Department of Chemical Engineering, University of Patras, 26504, Patras (Greece) – ziatridi@gmail.com, ct@chemeng.upatras.gr</i> ² Institute of Chemical Engineering and High Temperature Chemical Processes, ICE/HT-FORTH, P.O. Box 1414, 26504 Patras (Greece)
PI-39	pH RESPONSIVE REVERSIBLE HYDROGEL / LIPOSOME COMPOSITES FOR TUNNING DRUG RELEASE M.-T. POPESCU¹, S. MOURTAS², S.G. ANTIMISIARIS^{2,3} C. TSITSILIANIS^{1,3} ¹ <i>Department of Chemical Engineering, University of Patras 26504, Patras, Greece</i> ² <i>Laboratory of Pharmaceutical Technology, Department of Pharmacy, School of Health Sciences, University of Patras 26504, Patras, Greece</i> ³ <i>Institute of Chemical Engineering and High Temperature Chemical Processes, ICE/HT-FORTH, P.O. Box 1414, 26504 Patras, Greece</i>
PI-40	NANOSTRUCTURED MICELLES FROM SELF-ASSEMBLY OF PeCL-<i>b</i>-PEO-<i>b</i>-P2VP-<i>b</i>-PEO-<i>b</i>-PeCL PENTABLOCK TERPOLYMERS IN WATER M. KOROGIANNAKI^{1,2}, M.-T. POPESCU^{1,2}, K. MARIKOU^{1,2}, C. TSITSILIANIS^{1,2} ¹ <i>Department of Chemical Engineering, University of Patras, 26504, Patras (Greece) ct@chemeng.upatras.gr</i> ² Institute of Chemical Engineering and High Temperature Chemical Processes, ICE/HT-FORTH,

	26504 Patras (Greece)
PI-41	<p style="text-align: center;">AMPHIPHILIC POLY(ISOPRENE-B-ETHYLENE OXIDE) BLOCK COPOLYMERS CARRYING HYDROXYL/ESTER FUNCTIONALITIES ON THE POLYISOPRENE BLOCK</p> <p style="text-align: center;">E. KADITI, S. PISPAS</p> <p><i>Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation 48 Vassileos. Constantinou Ave., 116 35 Athens, Greece – ekaditi@eie.gr</i></p>
PI-42	<p style="text-align: center;">THERMOSENSITIVE AMPHIPHILIC BRUSH-LIKE BLOCK COPOLYMERS OF PEO AND PPO VIA A COMBINATION OF CONVENTIONAL AND METAL-FREE ANIONIC POLYMERIZATION</p> <p style="text-align: center;">J. ZHAO^{1,2}, G. MOUNTRICHAS¹, G. ZHANG², S. PISPAS¹</p> <p>¹<i>Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, 48 Vassileos Constantinou Ave., 11635 Athens, Greece - pispas@eie.gr</i></p> <p>²<i>Hefei National Laboratory for Physical Sciences at Microscale, University of Science and Technology of China, Hefei 230026, Anhui, China</i></p>
PI-43	<p style="text-align: center;">SYNTHESIS AND PROPERTIES OF NOVEL SULFIDE BRIDGED POLYIMIDES BASED ON NONCOPLANAR THIAZOLE CONTAINING DIAMINE</p> <p style="text-align: center;">A. JAVADI^{1,2}, A. SHOCKRAVI¹</p> <p>¹<i>Faculty of Chemistry, Tarbiat Moallem University, No. 49, Postal Code 1571914911 Tehran (Iran) – a.javadi@hotmail.com</i></p> <p>²<i>Iranian Academic Center for Education, Culture and Research, Tarbiat Moallem Branch, Tehran (Iran)</i></p>
PI-44	<p style="text-align: center;">SULFONATED AROMATIC POLYETHERS CONTAINING PYRIDINE UNITS AS MEMBRANES FOR HIGH TEMPERATURE PEM FUEL CELLS</p> <p style="text-align: center;">I. KALAMARAS¹, M.K. DALETOU¹ J.K. KALLITSIS^{1,2,3} and V.G. GREGORIOU^{1,2}</p> <p>¹<i>Foundation for Research and Technology-Hellas, Institute of Chemical Engineering and High Temperature Chemical Processes (FORTH/ICEHT), Patras 26504, Greece. john.kalamaras@gmail.com</i></p> <p>²<i>Advent Technologies S. A., Scientific Park of Patras, Patras 26504, Greece.</i></p> <p>³<i>Department of Chemistry, University of Patras, Patras 26500, Greece.</i></p>
PI-45	<p style="text-align: center;">EFFECT OF THE MOLECULAR STRUCTURE ON THE PROPERTIES OF HIGH TEMPERATURE POLYMER ELECTROLYTE MEMBRANES</p> <p style="text-align: center;">C. MORFOPOULOU^{1,2}, M. GEORMEZI^{1,3}, A. K. ANDREOPOLOU^{1,2}, S. NEOPHYTIDES,^{2,3} J.K. KALLITSIS^{1,2,3}</p> <p>¹<i>Department of Chemistry, University of Patras, GR-26500 Rio-Patras, Greece – christmorf@upatras.gr</i></p> <p>²<i>Institute of Chemical Engineering and High Temperature Chemical Processes, ICE/HT-FORTH, Post Office Box 1414, GR-26504 Rio-Patras, Greece</i></p> <p>³<i>Advent Technologies SA, Patras Science Park, GR-26504 Rio-Patras, Greece</i></p>
PI-46	<p style="text-align: center;">ASSOCIATION OF CETYL TRIMETHYLMONIUM BROMIDE WITH POLY(METHYL METHACRYLATE –co-SODIUM STYRENE SULFONATE) RANDOM COPOLYMERS: FORMATION OF HYBRID WORMLIKE MICELLES AND VISCOELASTIC BEHAVIOR IN AQUEOUS SOLUTION</p> <p style="text-align: center;">E.K.OIKONOMOU^{1,2}, G. BOKIAS¹, J.K. KALLITSIS^{1,2}</p> <p>¹<i>Department of Chemistry, University of Patras, GR-26504 Patras, Greece-eydokia61@gmail.com</i></p> <p>²<i>Foundation of Research and Technology Hellas, Institute of Chemical Engineering and High Temperature Chemical Processes (ICE/HT FORTH), P.O. Box 1414, GR- 26504 Patras, Greece</i></p>
PI-47	<p style="text-align: center;">SIDE CHAIN CROSSLINKING OF UNSATURATED AROMATIC POLYETHERS FOR HIGH TEMPERATURE POLYMER ELECTROLYTE MEMBRANE FUEL CELLS (PEMFCs)</p> <p style="text-align: center;">K.D. PAPADIMITRIOU¹, A. VÖGE² AND J.K. KALLITSIS^{1,2,3}</p> <p>¹<i>Department of Chemistry, University of Patras, 26500 Patras (Greece) - ntina.sth@gmail.com</i></p> <p>²<i>Foundation of Research and Technology-Hellas, Institute of Chemical Engineering and High Temperature Processes (FORTH-ICE/HT), 26504 Patras (Greece)</i></p>

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PI-48	QUINOLINE-LABELLED WATER-SOLUBLE COPOLYMERS: STRUCTURE CONTROL OF THE PH- RESPONSIVE OPTICAL PROPERTIES IN AQUEOUS SOLUTION <u>I. THIVAIOS</u> , S. KOURKOULI, A. STEFOPOULOS, G. BOKIAS, J.K. KALLITSIS <i>Department of Chemistry, University of Patras, GR-26504 Patras, Greece</i> gthivaios@gmail.com
PI-49	APPLICATION OF QUINOLINE-LABELLED WATER SOLUBLE POLYMERS FOR THE INVESTIGATION OF THE POLYELECTROLYTE SURFACTANT COMPLEXATION IN AQUEOUS SOLUTION <u>I. THIVAIOS, G. BOKIAS</u> <i>Department of Chemistry, University of Patras, GR-26504 Patras, Greece</i>
PI-50	REPEATABLE PHOTOINDUCED SELF-HEALING OF TRITHIOCARBONATE CROSS-LINKED POLYMERS <u>Y. AMAMOTO^{1,2}</u> , J. KAMADA ¹ , H. OTSUKA ² , A. TAKAHARA ² , AND K. MATYJASZEWSKI ^{1*} ¹ <i>Center for Macromolecular Engineering, Department of Chemistry, Carnegie Mellon University 4400 Fifth Avenue, Pittsburgh, Pennsylvania 15213, USA</i> – km3b@andrew.cmu.edu ² <i>Institute for Materials Chemistry and Engineering, Kyushu University 744 Motooka, Nishi-ku, Fukuoka 819-0395, Japan</i>
PI-51	FUNCTIONAL HYBRID MATERIALS FOR TWO PHOTON FABRICATION OF SEMICONDUCTING 3D STRUCTURES <u>E. KAMBOURAKI</u> ^{1,2} M. FARSAKI ¹ M. VAMVAKAKI ^{1,2} C. FOTAKIS ¹ ¹ <i>Institute of Electronic Structure and Laser, Foundation for Research and Technology – Hellas, P. O. Box 1527 Vasilika Vouton, 711 10 Heraklion, Crete (Greece)</i> – elmina@iesl.forth.gr ² <i>Department of Materials Science and Technology, University of Crete, P.O. 2208 Vasilika Vouton, 710 03 Heraklion, Crete (Greece)</i>
PI-52	PHOTODEGRADABLE POLYMERS AS SUBSTRATES FOR POST-CULTURE CELL PATTERNING <u>G. PASPARAKIS</u> , ¹ T. MANOURAS, ² A. SELIMIS, ¹ S. PSYCHARAKIS, ¹ A. RANELLA, ¹ P. ARGITIS ² AND M. VAMVAKAKI ^{1,3} ¹ <i>Institute of Electronic Structure and Laser – Foundation for Research and Technology Hellas, 711 10 Heraklion, Greece</i> - gpasp@iesl.forth.gr ² <i>Institute of Microelectronics, NCSR Demokritos, 153 10 Aghia Paraskevi, Attiki Greece</i> ³ <i>Department of Materials Science and Technology, University of Crete, 710 03 Heraklion, Crete, Greece</i>
PI-53	SYNTHESIS AND CHARACTERIZATION OF RESPONSIVE NANOPARTICLES FOR HOMOGENEOUS CATALYSIS <u>G. PASPARAKIS</u> ¹ , K. STOIKOS ² , M. VAMVAKAKI ^{1,2} ¹ <i>Institute of Electronic Structure and Laser – Foundation for Research and Technology Hellas, 711 10 Heraklion, Greece</i> - gpasp@iesl.forth.gr ² <i>Department of Materials Science and Technology, University of Crete, 710 03 Heraklion, Crete, Greece</i>
PI-54	BULK HOMOPOLYMERIZATION OF 2-(DIMETHYLAMINO)ETHYL METHACRYLATE VIA ATOM TRANSFER RADICAL POLYMERIZATION <u>D. MOATSOU</u> ^{1,2} , D.S. ACHILLEOS ^{1,2} , M. VAMVAKAKI ^{1,2} ¹ <i>Department of Materials Science and Technology, University of Crete, 710 03 Heraklion, Crete, Greece</i> - dmoatsou@materials.uoc.gr ² <i>Institute of Electronic Structure and Laser, Foundation for Research and Technology – Hellas, 711 10 Heraklion, Crete, Greece</i>
PI-55	MULTIRESPONSIVE SPIROPYRAN-BASED COPOLYMERS SYNTHESIZED BY ATOM TRANSFER RADICAL POLYMERIZATION <u>D. S. ACHILLEOS</u> ^{1,2} AND M. VAMVAKAKI ^{1,2}

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PI-56	<p>POLYMER PORPHYRIN NANOASSEMBLIES WITH INCORPORATED GOLD NANOPARTICLES</p> <p><u>M. KALIVA</u>,^{1,2} G.E. ZERVAKI³, A. COUTSOLELOS³, M. VAMVAKAKI^{1,2}</p> <p>¹Institute of Electronic Structure and Laser, Foundation for Research and Technology, Voutes, 711 10, Heraklion, Greece – kalivm@iesl.forth.gr</p> <p>²Department of Materials Science & Technology, University of Crete, Voutes, 710 03, Heraklion, Greece</p> <p>³Department of Chemistry, University of Crete, Voutes, 710 03 Heraklion, Greece</p>
PI-57	<p>PLASMA NANOTEXTURED AMPHIPHOBIC POLYMER SURFACES</p> <p><u>A. K. GNANAPPA</u>, K. ELLINAS, A. TSEREPI, E. GOGOLIDES</p> <p><i>Institute of Microelectronics, National Center for Scientific Research ‘Demokritos’, Terma Patrihou Gregoriou St. Aghia Paraskevi, 15310 Greece- arun@imel.demokritos.gr</i></p>
PI-58	<p>SYNTHESIS AND STUDY OF PROPERTIES OF DENTAL RESIN COMPOSITES WITH DIFFERENT NANOSILICA PARTICLES SIZE</p> <p><u>M. KARABELA</u>, I. SIDERIDOU</p> <p><i>Laboratory of Organic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, GR-54124 Thessaloniki (Greece) - siderid@chem.auth.gr</i></p>
PI-59	<p>SORPTION OF FOOD-SIMULATING SOLUTIONS BY DENTAL DIMETHACRYLATE RESINS</p> <p>I. SIDERIDOU, <u>M. KARABELA</u></p> <p><i>Laboratory of Organic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, GR-54124 Thessaloniki (Greece)- siderid@chem.auth.gr</i></p>
PI-60	<p>EFFECT OF THE SODIUM PHOSPHATE DIBASIC CONCENTRATION ON THE SWELLING PROPERTIES OF CHITOSAN HYDROGELS</p> <p><u>A. MARTÍNEZ-RUVALCABA</u>¹, J.C. SÁNCHEZ-DÍAZ¹, L.E. CRUZ-BARBA¹, A. GONZÁLEZ-ÁLVAREZ¹, F. BECERRA-BRACAMONTES²</p> <p>¹<i>Department of Chemical Engineering, University of Guadalajara, Blvd. García Barragan #1421, 44430 Guadalajara (Mexico) – agustin21@gmail.com</i></p> <p>²<i>Department of Chemistry, University of Guadalajara, Blvd. García Barragan #1421, 44430 Guadalajara (Mexico)</i></p>
PI-61	<p>POLYMER NANOROD ARRAYS FOR OPTICAL WAVEGUIDE-BASED BIOSENSING</p> <p><u>A. GITSAS</u>^{1*}, B. YAMEEN², T. LAZZARA³, M. STEINHART⁴, H. DURAN², W. KNOLL¹</p> <p>¹<i>Nano Systems, Austrian Institute of Technology, Donau-City-Strasse 1, 1220 Vienna, Austria – antonis.gitsas@ait.ac.at</i></p> <p>²<i>Max Planck Institute for Polymer Research, 55128 Mainz, Germany</i></p> <p>³<i>Institute for Organic and Biomolecular Chemistry, Universität Göttingen, 37077 Göttingen, Germany</i></p> <p>⁴<i>Institut for Chemistry, University of Osnabrück, 49069 Osnabrück, Germany</i></p>
PI-62	<p>CRYSTALLIZATION KINETICS OF POLY(E-CAPROLATONE)-BLOCK-POLY(PROPYLENE ADIPATE) COPOLYMERS</p> <p><u>S. NANAKI</u>, G. PAPAGEORGIOU, D. BIKIARIS</p> <p><i>Laboratory of Organic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, GR-541 24, Thessaloniki, Macedonia, Greece dbic@chem.auth.gr</i></p>
PI-63	<p>IN SITU PREPARED POLY(PROPYLENE SUCCINATE) NANOCOMPOSITES USING FUMED SILICA AS FILLER: SYNTHESIS, CHARACTERIZATION AND ENZYMATIC HYDROLYSIS.</p> <p>S. NANAKI, <u>K. ANDROULAKI</u>, D. BIKIARIS</p> <p><i>Laboratory of Organic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, GR-541 24, Thessaloniki, Macedonia, Greece – dbic@chem.auth.gr</i></p>

PI-64	<p>THE EFFECT OF COMPOSITION AND PROCESSING PARAMETERS ON THE MORPHOLOGY AND PROPERTIES OF ORGANOCLAY/POLYOLEFIN NANOCOMPOSITES</p> <p>G. MORAITIS, P. TARANTILI</p> <p><i>Polymer Technology Lab., School of Chemical Engineering, National Technical University of Athens Heroon Polytechniou 9, Zographou, GR 15780 Athens, Greece – taran@chemeng.ntua.gr</i></p>
PI-65	<p>PTHE EFFECT OF CLAY REINFORCEMENT ON THE MORPHOLOGY AND THERMOMECHANICAL PROPERTIES OF MEDIUM MOLECULAR WEIGHT POLYSILOXANE NANOCOMPOSITES</p> <p>S. VASILAKOS, M. TRAITOU, P. TARANTILI</p> <p><i>Polymer Technology Lab., School of Chemical Engineering, National Technical University of Athens Heroon Polytechniou 9, Zographou, GR 15780 Athens, Greece – taran@chemeng.ntua.gr</i></p>
PI-66	<p>LAYERED SILICATE/POLY(LACTIC ACID) NANOCOMPOSITE FILMS AS CARRIERS IN DRUG RELEASE SYSTEMS</p> <p>C. STATHOKOSTOPOULOU, P. TARANTILI</p> <p><i>Polymer Technology Lab., School of Chemical Engineering, National Technical University of Athens Heroon Polytechniou 9, Zographou, GR 15780 Athens, Greece – taran@chemeng.ntua.gr</i></p>
PI-67	<p>SYNTHESIS AND CHARACTERIZATION OF AMPHIPHILIC POLYMER COMPOSITES CONTAINING INORGANIC NANO CLUSTERS</p> <p>¹Ö.A. KALAYCI, ¹T. ATALAY, ^{2*}B. HAZER</p> <p>¹<i>Department of Physics, Zonguldak Karaelmas University, Zonguldak 67100 (Turkey)-bhazer2@yahoo.com; bkhazer@karaelmas.edu.tr</i></p> <p>² <i>Department of Chemistry, Zonguldak Karaelmas University, Zonguldak 67100 (Turkey)</i> <i>Phone: 0372 2574010-1372. E-mails: bhazer2@yahoo.com; bkhazer@karaelmas.edu.tr</i></p>
PI-68	<p>SYNTHESIS AND CHARACTERIZATION OF POLYLACTIDE-G-POLY(ETHYLENE GLYCOL) BRUSH TYPE GRAFT COPOLYMERS</p> <p>GÖKHAN ÇAVUŞ, *BAKİ HAZER</p> <p><i>Department of Chemistry, Zonguldak Karaelmas University, Zonguldak 67100 (Turkey)</i> <i>bhazer2@yahoo.com; bkhazer@karaelmas.edu.tr</i></p>
PI-69	<p>NOVEL COMB TYPE AMPHIPHILIC GRAFT COPOLYMERS VIA THIOL-ENE CLICK REACTIONS</p> <p>E. KELEŞ, B. HAZER</p> <p><i>Department of Chemistry, Zonguldak Karaelmas University, Zonguldak 67100 (Turkey)</i> <i>bhazer2@yahoo.com; bkhazer@karaelmas.edu.tr</i></p>
PI-70	<p>THERMALLY STABLE AND ORGANOSOLUBLE POLYESTERS CONTAINING NAPHTHALENE GROUPS: SYNTHESIS AND PROPERTIES</p> <p>J. A. GHARAMALEKI¹</p> <p>¹<i>Young Researchers Club, Islamic Azad University, North Tehran Branch, Tehran (Iran)</i> <i>attar_jafar@yahoo.com</i></p>
PI-71	<p>DRUG DELIVERY KINETICS OF POLYACRYLAMIDE-CO-ITACONIC ACID/CHITOSAN HYDROGELS</p> <p>A. GONZÁLEZ-ÁLVAREZ¹, J.C. SÁNCHEZ-DÍAZ¹, L.E. CRUZ-BARBA¹, F. BECERRA-BRACAMONTES², A. MARTÍNEZ-RUVALCABA¹</p> <p>¹<i>Department of Chemical Engineering, University of Guadalajara, Blvd. García Barragan #1421, 44430 Guadalajara (Mexico) – agonzalezalvarez@gmail.com</i></p> <p>²<i>Department of Chemistry, University of Guadalajara, Blvd. García Barragan #1421, 44430 Guadalajara (Mexico)</i></p>
PI-72	<p>EFFECT OF INTERFACIAL INTERACTION ON DENSITY DISTRIBUTION INSIDE THE PHOTORESIST THIN FILMS INVESTIGATED BY X-RAY REFLECTIVITY METHOD</p> <p>J.G. YOON¹, J.-H. KIM¹, W.-C. ZIN¹, J. H. KIM², S. I. AHN², J. KIM³, J.-W. LEE³</p> <p>¹<i>Department of Materials Science and Engineering, Pohang University of Science and Technology, San 31, Hyoja-Dong, Nam-Gu, Pohang, Gyeongbuk, 790-784, Korea –</i></p>

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PI-73	<p style="text-align: center;">CONTROLLED HOLLOW SPHERES OF POLY(METHOXYANILINE) OBTAINED THROUGH A SELF-ASSEMBLY METHOD</p> <p style="text-align: center;"><u>L. ZHANG</u>, J.SUI, P.A. KILMARTIN, AND J. TRAVAS-SEDJEC</p> <p><i>Polymer Electronics Research Centre, Chemistry Department, The University of Auckland, Private Bag 92019, Auckland, New Zealand</i></p>
PI-74	<p style="text-align: center;">OPTIMIZATION OF THE MECHANICAL PROPERTIES OF HDPE/EVA NANACOMPOSITE USING TAGUCHI METHOD</p> <p style="text-align: center;"><u>M. PIRZADEH</u>¹, A. SHARIF^{1,2,*}, M. KALAEY¹ AND S. AKHLAGHI¹</p> <p>¹<i>Department of Polymer Engineering, Islamic University of Azad, Tehran South Branch, Abozar Blvd. Ahang 1777613651 Tehran (Iran)</i></p> <p>²<i>Department of Polymer Science and Technology, Research Institute of Petroleum Industry (RIPI), 4th Km Karaj highway 1693913154 Tehran (Iran) - sharifa@ripi.ir</i></p>
PI-75	<p style="text-align: center;">PERMEABILITY OF POLYMER/CLAY NANOCOMPOSITES</p> <p style="text-align: center;">G. CHOUDALAKIS* AND A. D. GOTTSIS</p> <p><i>Department of Sciences, Technical University of Crete, 73100, Hania, Greece</i></p>
PI-76	<p style="text-align: center;">SYNTHESIS OF POLY(URETHANE)S BASED ON DIPHENYL SYLANE/GERMANE AND OXYARENNE UNITS. STRUCTURE-PROPERTIES RELATIONSHIP</p> <p style="text-align: center;"><u>A. TUNDIDOR-CAMBA</u>, C.A TERRAZA, L.H. TAGLE, C.M. GONZALEZ-HENRIQUEZ</p> <p><i>Organic Chemistry Department, Faculty of Chemistry, Pontificia Universidad Católica de Chile, Box 306, Post 22, Santiago, Chile- atundido@uc.cl</i></p>
PI-77	<p style="text-align: center;">POLY(IMIDE-DIAMIDES) CONTAINING SILICON IN THE MAIN CHAIN. SYNTHESIS AND CHARACTERIZATION</p> <p style="text-align: center;">L.H. TAGLE, C.A. TERRAZA, D. COLL, A. TUNDIDOR-CAMBA</p> <p><i>FACULTAD DE QUIMICA, PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE, P.O. BOX 306, SANTIAGO, CHILE (ltagle@uc.cl)</i></p>
PI-78	<p style="text-align: center;">SYNTHESIS OF POLYETHYLENE GLYCOL BASED HYDROGEN BONDED SIDE CHAIN LIQUID CRYSTAL POLYMERS</p> <p style="text-align: center;"><u>E. ERBİL</u>^A, C. AYTAÇ^A, Y. GÜRSEL^A, B. F. ŞENKAL^A, F. YAKUPHANOĞLU^B</p> <p>^A<i>İstanbul Teknik Üniversitesi, Fen-Ed. Fak., Kimya Böl., 34469, Maslak/İstanbul</i></p> <p>^B<i>Fırat Üniversitesi, Fen-Ed. Fak., Fizik Böl., Elazığ hepuzer@itu.edu.tr, fyhanoglu@firat.edu.tr,</i></p>
PI-79	<p style="text-align: center;">RELEASE OF ACTIVE AGENTS FROM POLYMERS: FAST QUANTITATIVE ASSESSMENT AT LOW CONCENTRATION VIA SERS</p> <p style="text-align: center;"><u>J. ANASTASOPOULOS</u>^{a,b}, A. MANIKAS^{a,b}, A. SOTO^{a,b} and G. VOYIATZIS^{a,b}</p> <p>^a<i>FORTH/ICE-HT, P.O. Box 1414, GR-265 04, Rio-Patras (Hellas) - j.anast@iceht.forth.gr</i></p> <p>^b<i>Interdepartmental Program of Graduate Studies on "Polymer Science and Technology", University of Patras, GR-265 00, Rio-Patras (Hellas)</i></p>
PI-80	<p style="text-align: center;">EFFECT OF DRAWING CONDITIONS ON MOLECULAR STRUCTURES AND PHYSICAL PROPERTIES OF BICOMPONENT FIBERS</p> <p style="text-align: center;"><u>T.HWAN OH</u>, S.S. HAN, W. SEOK LYOO, Y. H. SEO</p> <p><i>School of Textiles, Yeungnam University, 214-1 Daedong, 712749 Gyeongsan, Korea – taehwanoh@ynu.ac.kr</i></p>