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<b>EFFECT OF BACKWARD MELT FLOW ON INJECTION-COMPRESSION MOLDED PART THICKNESS DISTRIBUTION.....</b>	<b>1523</b>
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B. Bekisli, J. Coulter, T. Skiba, K. Slye, <i>Lehigh University</i>	
<b>EFFECT OF MICRO-VISCOSITY AND WALL SLIP ON POLYMER MELT RHEOLOGY INSIDE MICRO-CHANNEL.....</b>	<b>1534</b>
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W. Cao, C. Li, Q. Li, C. Shen, <i>Zhengzhou University</i>	
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T. Osswald, N. Rudolph, <i>University of Wisconsin-Madison</i>	
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<b>EXPERIMENTAL STUDY OF THE EFFECT OF MOLDING AND COATING ON THE DURABILITY OF OPTICAL POLYCARBONATE PRODUCTS .....</b>	<b>1562</b>
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<i>D. Astbury, C. Friedl, H. Wang, Autodesk Australia Pty Ltd</i>	
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<b>AN IMPROVED FOLGAR-TUCKER MODEL FOR TRANSIENT BEHAVIOR OF ORIENTATION KINETICS IN FIBER SUSPENSION .....</b>	<b>1589</b>
<i>Y. Chang, C. Hsu, CoreTech System (Moldex3D) Co., Ltd.</i>	
<i>H. Tseng, Molecular Dynamics Technology Co. Ltd.</i>	
<i>R. Chang, National Tsing-Hua University</i>	
<b>THE INJECTION COMPRESSION EFFECTS ON THE OPTICAL PROPERTY BEHAVIOR FOR INJECTION PARTS.....</b>	<b>1594</b>
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<b>INTERNAL STRESS PREDICTION ON INJECTION MOLDED PART OF FIBER REINFORCED POLYMER BASED ON MULTISCALE MODEL.....</b>	<b>1613</b>
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<i>C. Shen, Z. Zhao, Zhengzhou University</i>	
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<i>S. Chen, G. Lee, C. Tseng, Chung Yuan Christian University</i>	
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<b>A NEW CLOSED LOOP MOLD TEMPERATURE CONTROL TECHNIQUE BY MEANS OF ONLINE THERMOGRAPHY.....</b>	<b>1664</b>
M. Bastian, P. Heidemeyer, G. Schwalme, <i>SKZ Süddeutsches Kunststoff-Zentrum</i>	
M. Koch, <i>TU Ilmenau</i>	
<b>NUMERICAL SIMULATION OF MORPHOLOGY EVOLUTION OF CRYSTALLIZATION IN RAPID THERMAL RESPONSE MOLDED PARTS.....</b>	<b>1668</b>
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H. Huang, B. Wang, <i>South China University of Technology</i>	
<b>ON-LINE OPTIMIZATION OF INJECTION MOLDING .....</b>	<b>1679</b>
D. Hazen, C. McCreedy, <i>MKS Instruments</i>	
S. Johnston, D. Kazmer, D. Vanderwalker, <i>Univ. Mass. Lowell</i>	
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E. Moritzer, T. Plugge, <i>University of Paderborn (KTP)</i>	
<b>PRECISION INJECTION MOLDING OF THERMOPLASTIC REPEATING FRAMES FOR BATTERY APPLICATIONS .....</b>	<b>1697</b>
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D. Okonski, <i>GM R&amp;D Center</i>	
<b>PREDICTION OF FIBER ORIENTATION AND WARPAGE OF SHORT FIBER REINFORCED FILM INSERT MOLDED PARTS.....</b>	<b>1701</b>
S. Lee, <i>Korea Institute of Industrial Technology</i>	
S. Kim, J. Youn, <i>Seoul National University</i>	
<b>PROCESS DEVELOPMENT OF THE PROJECTILE INJECTION TECHNIQUE (PIT).....</b>	<b>1706</b>
O. Grönlund, M. Gründler, C. Hopmann, W. Michaeli, A. Neuss, <i>Institute of Plastics Processing (IKV) at RWTH Aachen University</i>	
<b>RESIDUAL STRESS EVALUATION OF EASTMAN TRITAN™ COPOLYESTER, POLYCARBONATE AND THEIR BLENDS WITH ABS.....</b>	<b>1711</b>
G. Stack, M. Treece, <i>Eastman Chemical Co.</i>	
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E. Dougherty, P. Gorton, <i>Energizer Personal Care Products</i>	
S. Hsu, T. Osswald, N. Rudolph, L. Turng, <i>University of Wisconsin-Madison</i>	
<b>THE ROLE OF PLASTICATION IN PURGING EFFICIENCY AND MOLDED PART QUALITY FOR RECIPROCATING SCREW INJECTION MOLDING MACHINES .....</b>	<b>1724</b>
L. Kaliaperumal, D. Schmiederer, N. Schott, W. Sriseubsai, <i>University of Massachusetts Lowell</i>	
<b>SELF FORMATION OF “MUCELL” FROM PS/POLYANILINE-HALLOYSITE CLAY (PHC) INJECTION MOLDING .....</b>	<b>1731</b>
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S. Chen, S. Huang, T. Yu, <i>Chung Yuan Christian University</i>	
T. Chen, C. Huang, <i>Coretech</i>	
C. Hsu, <i>National Tsing-Hua University</i>	
<b>SIMULATION ON THE PART WARPAGE AND PHOTOELASTIC STRESS WHEN MOLDING DISCONTINUOUS-THICKNESS-VARIATION PARTS COMBINED WITH DIFFERENTIAL MOLD COOLING.....</b>	<b>1740</b>
Y. Chang, S. Chen, P. Hsu, S. Huang, <i>Chung Yuan Christian University</i>	
C. Huang, <i>Coretech</i>	
Y. Chang, <i>CoreTech System (Moldex3D) Co., Ltd.</i>	
<b>A STUDY OF INJECTION MOLDING OF THE BARREL FOR THE OPTICAL LENSES .....</b>	<b>1743</b>
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<b>STUDY OF THE TAGUCHI METHOD ON THE EJECTING FORCE OF THE INJECTION MOLDING MACHINE...</b>	<b>1747</b>
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<b>STUDY ON EXTERNALLY WRAPPED COILS INDUCTION HEATING AND ITS APPLICATION ON RAPID MOLD SURFACE HEATING.....</b>	<b>1754</b>
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<b>A STUDY ON INJECTION-STRUCTURE COUPLED ANALYSIS FOR THE PREDICTION OF INTEGRATED METAL INSERT INJECTION MOLDING PARTS.....</b>	<b>1757</b>
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<i>B. Cha, G. Yoon, KITECH</i>	
<i>W. Rym, Moldion</i>	
<i>B. Pyo, VMTech</i>	
<b>STUDY ON RHEOLOGICAL BEHAVIOR OF ULTRA HIGH SPEED INJECTION MOLDING.....</b>	<b>1760</b>
<i>S. Chen, A. Winarko, Chung Yuan Christian University</i>	
<i>T. Chen, C. Huang, Coretech</i>	
<i>H. Peng, Far East University</i>	
<i>C. Hsu, National Tsing-Hua University</i>	
<b>THE THREE DIMENSIONAL NUMERICAL ANALYSIS OF INJECTION-COMPRESSION MOLDING PROCESS....</b>	<b>1764</b>
<i>S. Han, X. Jin, Autodesk Inc.</i>	
<b>THREE DIMENSIONAL VISUALIZATION OF WATER PENETRATION AND MELT BEHAVIOR IN WATER ASSISTED INJECTION MOLDING.....</b>	<b>1770</b>
<i>S. Liu, Chang Gung University</i>	
<i>F. Hsu, C. Huang, Y. Wu, Coretech System Co. Ltd.</i>	
<i>R. Chang, C. Hsu, National Tsing-Hua University</i>	
<b>TRANSIENT MOLD COOLING SIMULATION FOR THE INJECTION MOLDING PROCESS .....</b>	<b>1775</b>
<i>F. Costa, C. Kietzmann, Autodesk Australia Pty Ltd</i>	
<i>L. Chen, H. Feng, Autodesk Software (China) Co., Ltd</i>	
<i>R. Le Goff, Pole Europeen de Pasturgie</i>	
<b>UNDERSTANDING THE EXISTENCE AND MAGNITUDE OF FLOW INDUCED SHEAR IMBALANCES IN LIQUID SILICONE RUBBERS .....</b>	<b>1781</b>
<i>J. Gadlay, J. Grumski, Penn State Erie, The Behrend College</i>	
<b>THE USE OF PRESSURIZED WATER PELLETS AND SUPERCRITICAL NITROGEN IN INJECTION MOLDING..</b>	<b>1788</b>
<i>E. Cabrera, J. Castro, L. Lee, R. Mulyana, The Ohio State University</i>	

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<b>COMPARISON OF HOT PLATE, VIBRATION, INFRARED AND COMBINED INFRARED WITH VIBRATION WELDING OF ASA.....</b>	<b>1793</b>
<i>A. Benatar, A. Mokhtarzadeh, The Ohio State University</i>	
<i>C. Wu, Visteon Corp</i>	
<b>COMPARISON OF SERVO AND PNEUMATIC ULTRASONIC WELDING OF HDPE SHEAR JOINTS.....</b>	<b>1799</b>
<i>A. Benatar, A. Mokhtarzadeh, The Ohio State University</i>	
<b>EFFECTS OF PROCESS PARAMETERS ON ADDITIVE ASSISTED LASERSINTERING OF POLYETHERETHERKETONE.....</b>	<b>1806</b>
<i>P. Eyerer, Fraunhofer Institute for Chemical Technology</i>	
<i>C. Bonten, M. Kroh, University of Stuttgart</i>	
<b>HOT PLATE WELDING OF WOOD PLASTIC COMPOSITES BASED ON POLYVINYLCHLORIDE AND POLYPROPYLENE .....</b>	<b>1812</b>
<i>M. Bastian, B. Baudrit, M. Bogdanovic, P. Heidemeyer, SKZ Süddeutsches Kunststoff-Zentrum</i>	
<b>INFLUENCE OF THE TOOL MATERIAL ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF PMMA LAP JOINTS WELDED BY FRICTION SPOT .....</b>	<b>1821</b>
<i>E. Hage Jr., P. Oliveira, Federal University of Sao Carlos</i>	
<i>S. Amancio, Helmholtz Zentrum Geesthacht</i>	
<i>J. Dos Santos, Helmholtz Zentrum Geesthacht, Institute of Materials Research, Materials Mechanics</i>	
<b>INFRARED WELDING OF ENGINEERING PLASTICS VIA SHORT-WAVELENGTH IR EMITTERS.....</b>	<b>1826</b>
<i>J. Kurikov, BASF SE</i>	
<i>T. Beiss, bielomatik Leuze GmbH &amp; Co. KG</i>	

<b>LASER LIGHT TRANSMISSION THROUGH THERMOPLASTICS AS A FUNCTION OF THICKNESS AND LASER INCIDENCE ANGLE: EXPERIMENTAL</b> .....	<b>1833</b>
G. Zak, <i>Queen's University</i>	
P. Bates, <i>RMC</i>	
E. Azhikannickal, <i>Royal Military College of Canada</i>	
<b>LASER TRANSMISSION WELDING OF CF-PA 6.6 USING ADAPTED PYROMETRIC PROCESS CONTROL</b> .....	<b>1838</b>
C. Chamorro Velasco, F. Fischer, H. Haferkamp, P. Jaeschke, U. Stute, <i>Laser Zentrum Hannover</i>	
<b>MODELLING OF THE AGEING PROCESS ON THERMOPLASTIC SURFACES AFTER TREATMENT WITH AN ATMOSPHERIC-PRESSURE PLASMA</b> .....	<b>1845</b>
C. Leister, E. Moritzer, <i>University of Paderborn</i>	
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A. Guevara-morales, P. Leever, <i>Imperial College London</i>	
<b>POLYMER DEGRADATION DURING CONTOUR LASER TRANSMISSION WELDING</b> .....	<b>1855</b>
S. Khosravi, G. Zak, <i>Queen's</i>	
P. Bates, <i>RMC</i>	
<b>PRECISE, HIGH-SPEED, HOT-PLATE WELDING; CONTROL TO THE THIRD POWER</b> .....	<b>1863</b>
D. Jelgerhuis, <i>Extol Inc.</i>	
<b>PRINCIPALS OF THE TWINWELD SYSTEM</b> .....	<b>1868</b>
C. Korson, <i>LPKF Laser &amp; Electronics</i>	
<b>SOME EFFECTS OF BOUNDED INTERFACIAL GAPS ON THE STRENGTH OF CONTOUR LASER WELDED JOINTS</b> .....	<b>1873</b>
B. Baylis, <i>Home</i>	
S. Masse, <i>Jeese Garant and Associates</i>	
D. Watt, <i>University of Windsor</i>	
<b>ULTRASONIC CUTTING OF BIODEGRADABLE POLYLACTIC ACID (PLA) FILMS</b> .....	<b>1878</b>
D. Grewell, <i>Iowa State University</i>	
J. Vogel, <i>Iowa State university</i>	
<b>WELDING OF FLAME RETARDING PP</b> .....	<b>1883</b>
R. Hoffschlag, J. Krugmann, V. Schöppner, <i>University of Paderborn</i>	

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<b>BENCHMARKING THE TECHNOLOGICAL COMPETENCE OF SMALL AND MEDIUM-SIZED INJECTION MOLDING COMPANIES</b> .....	<b>1888</b>
M. Brinkmann, C. Hopmann, W. Michaeli, A. Neuss, M. Pütz, <i>Institute of Plastics Processing (IKV) at RWTH Aachen University</i>	
<b>COMPOSITES FOR NAVAL APPLICATIONS: FIRE, SMOKE, AND TOXICITY MATERIAL TESTING AND REQUIREMENTS</b> .....	<b>1894</b>
M. Lee, <i>General Dynamics Electric Boat</i>	
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B. Story, <i>ipCapital Group</i>	
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C. Hasse, <i>University of Kassel</i>	
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S. Spanoudis, <i>Motorola Solutions</i>	
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R. Jones, <i>Franklin Internaitonal LLC</i>	
<b>HOW POLYAMIDE BECAME KNOWN AS NYLON: AN EXAMINATION OF TRADEMARK GENERICISM AND ITS AFFECTS ON THE PLASTICS INDUSTRY</b> .....	<b>1924</b>
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<b>PERVASIVE INNOVATION: TAKING INNOVATION DEEP AND WIDE ACROSS AND THROUGH THE ORGANIZATION .....</b>	<b>1933</b>
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<b>SELLING IN A BRUTAL ECONOMY: A HUGE OPPORTUNITY AND HOW TO CAPITALIZE ON IT .....</b>	<b>1947</b>
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A. Tayebi, <i>University of Massachusetts Lowell</i>	

### Medical Plastics D36

<b>ANTIBACTERIAL ACTIVITY OF CHITOSAN BIOMEMBRANES LOADED WITH NATURAL POLYPHENOLS ISOLATED FROM FRUITS .....</b>	<b>1955</b>
M. Esquivel, S. Madrigal-carballo, G. Rodriguez, M. Sibaja, J. Vega-baudrit, <i>National University</i>	
G. Jimenez, <i>Universidad Nacional</i>	
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<b>EFFECT OF AGING ON MECHANICAL BEHAVIOR OF A BIODEGRADABLE POLY(LACTIDE-CAPROLACTONE) COPOLYMER.....</b>	<b>1964</b>
J. Muñoz, J. Sarasua, <i>UPV-EHU</i>	
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D. Robinson, <i>Lubrizol</i>	
D. Meltzer, A. Walder, <i>Lubrizol Advanced Materials, Inc</i>	
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