

Table of Contents

Preface and Conference Organization

Chapter 1: Textile Materials

A Study on the Structure and Properties of Pineapple Leaf Viscose Fiber

J.Y. He, Z.K. Zhuang, T. Huang, Q.F. Li, M.F. Li, G.R. Deng, W.W. Lian, Z.Q. Ou, S.M. Qin and J. Zhang 3

Air Duct Modeling and Simulation of Air-Laid Machine Based Automotive Interior Materials of Hemp Fiber

B. Du, Y.Q. Wang, Y.Y. Zhao, Y.F. Qian, R.Y. Song, S.H. Gao and L.J. Zheng 15

Alkali Resistance of a soybean/casein/polyvinyl Alcohol Blend Fiber

X.C. Li and J.L. Cao 19

Bias Reduction in Kernel Estimation of the Density Function of Cotton Fiber Length

Y.H. Su and G.S. Yan 23

Comparative Analysis of Fibers for Thermal Protective Clothing

S. Liu, Z. Liu and X.E. Bai 29

Comparative Study on Mechanical Properties of Jutecell, Cotton and Bamboo Fiber Knitted Fabrics 20

L.N. Chen, F.R. Kong and R.C. Xu 33

Correlation of Natural and Artificial UV Aging of B.mori Silk Fabric

J.F. Ming, J. Shi, Y.X. Jiang and B.Q. Zuo 37

Effect of Surface Grafting-Modified on Structure and Property of Cellulose Fibers

S.H. Wang, J.M. Dai, H.S. Jia and B.S. Xu 43

Investigate on Moisture Absorption/Desorption of Shoe Material Containing Hemp Fiber

Y. Yang, X.M. Hao, X. Hao, H.W. Li and X.X. Feng 49

Preparation and Property of Bamboo Silk Fabric

G.X. Zhang, F.T. Chen, J. Zhou, F.X. Zhang, H. Zheng and D.Y. Wu 53

Process Evaluation of the Health-Care and Protective Composite Nonwoven

C.W. Lou, Y.L. Hsing, Y.H. Shih, T.T. Li, W.H. Hsing and J.H. Lin 57

Properties and Product Development of the Kapok Fiber

Y.P. Ji and R. Wang 62

Relationship between Structure and Properties of High Tenacity Polyamide 6 upon Different Draw Ratios and Heat Styling Temperatures

C. Yang, Y.K. Zhou and H. Zhang 67

Research on Properties of Fabrics Finished by Nano Titanium Dioxide

Y. Pang, Z.L. Zhong, H.W. Liu and L.Y. He 76

Study on Air-Conditioning Fiber/Cotton Blended Yarn Sizing Using Less PVA

W.L. Zou and H.J. Liu 80

Study on Characteristics of Outlast Acrylic Fiber

H.X. Zhang and X.C. Zhang 85

Study on Hygroscopicity/Easy Dry Properties of Cooldry Polyester Knitted Fabrics

Y.L. Zhai and L.H. Bai 90

Study on Performance of Organic Cotton Knitted Fabrics

F.R. Kong, L.N. Chen and M.X. Yang 96

Study on Sewing Properties of Knitted Fabrics with Piping and Blocking

L. Tan, Q.M. Wang, X.Y. Hu and L. Tian 100

Study on the Thermal Properties of High-Strength Flame Resistant Vinylon Blending Fabric

S. Zhang, X.W. Chen, Y.L. Li and W.P. Du 105

The Crystallinity and Orientation Structure and Crimp Properties of PET/PTT Bicomponent Filament

H. Xiao, M.W. Shi, L.L. Liu and G.L. Dai 110

The Design and Production of High-Count Silver Fiber / Cotton Blended Yarn-Dyed Antibacterial Shirting Fabric Y.Z. Zhu	117
The Exploitation of Household Knitting Goods Made of Linen L. Qiu and X.D. Chen	122
The Influence of Acrylic Acid Irradiation Grafting to the Hydrophilicity of Polypropylene Spunbonded Nonwovens L. Xia, P. Xi and B.W. Cheng	125
The Study of Bursting Property of Tetr-Axial Fabric P.W. Chen, Y.L. Li and X.W. Chen	130
The Study of Moisture Absorption and Release Properties of Tencel Fiber Q.L. Zhang and R. Zhou	138
Thermal Properties of the Polyolefin Based Elastic Filament DOW XLA™ N. Wang, Z.L. Liu and X.T. Chen	143
Research and Development of Multi-Functional Woven Fabric L.M. Shi, X. Li, Y.P. Wang and Q.Y. Li	147
Crystallization and Melting Behaviors of Polylactic Acid/Thermoplastic Polyurethane Blends T.W. Shyr, J. Yang, C.C. Hu, J.R. Wang and C.H. Tung	156
Design of a Novel Temperature Self-Operating Protective Clothing Based on Phase Change Material T.Q. Liu, F.R. Ma, Q.S. Shi, J.F. Chu, T.Q. Li and D.H. Yang	160
Thermal Comfort Characteristics of Knitted Fabrics for Abaya S. Tashkandi, L.J. Wang, S. Kanesalingam and A. Jadhav	164

Chapter 2: Technology in Textile Industry

A Further Study on Bamboo-Cage Loom in Guangxi Province of China Q. Li, B. Li and J.Q. Li	173
Coloration of Cotton Fabrics with Waterborne Carbon Black Dispersions X. Yuan and K.J. Fang	178
Dyeing and Functional Finishing of Silk, Nylon 6 and Polyester Fabrics with Baicalin J.L. Cao and X.C. Li	184
Effects of Potassium Permanganate Decoloration on Denim Shade J.M. Yao and S.N. Wei	190
Evaluation and Model of Woven Fabric Color S.S. Zhang, X.Y. Liu and W. Yu	195
Explore the DMF Stripping Process of PET/Cotton Blended Fabric Dyed by Disperse/Direct Dyes Z.F. Cai, Z.H. Niu, J.X. Ren, J.Y. Li, M. Niu, J.M. Dai and W.S. Hou	200
Graft Copolymerization of Acrylamide onto Polyester-Cotton Blended Fabric by Using Potassium Permanganate Redox System L.N. Wang, X.L. Xu, Y.L. Ren and X.Y. Sui	205
Improvement of Nanometer TiO₂ Anti-Ultraviolet Finishing Performance for Cotton Fabric by Using Polyethylene Glycol Y.X. Liu and N.Z. Zhang	212
Mixed Reactive Disperse Dyes on Wool Yarn Dyeing in Supercritical CO₂ Y.L. Huang, B. Du, Y. Fang, Y.P. Zhao, R.Y. Song and L.J. Zheng	217
Modification of Hemp Fabric with Endoglucanase and Acrylamide for Efficient Enhancing Dyeability of Natural Dyes H. Li, R. Liu, Y.C. Ji, Y. Wang and Q.H. Wang	221
Research on Dyeing Performance of Dew-Retted Linen Modified with Urea F.C. Dong, C.C. Yan, Y.T. Jia and G. Huang	225
Research on the Application of Ethnic Look for the Textile Visual Design Y.H. Wang and S.X. Du	229
Study of the Pretreatment and Disperse Dyeing Process for the PLA/cotton Blended Fabric: High Physical Resistance and Dyeing Performance H.F. Huang, Y.Y. Qu, Z.J. Fu and Y.F. Sun	233

Study on the Weaving Beauty of Monochromatic Knit Fabrics S.X. Du and Y.H. Wang	239
Sulfuric Acid Treatment of Aramid Fiber for Improving the Cationic Dyeing Performance D. Xia and L.J. Wang	243
Synthesis and Application of a Reactive Water-Soluble Antibacterial Z.M. Sun, D.J. Kong, Y.L. Li, H. Dong and Z.D. Liu	248
The Brief Study on the Inscription-Brocade and Weaving Technology of the Han Dynasty A.D. Liu, B. Li and Y.P. Qiu	252
The Fabrics Magnetic Coating Finishing Explore N.P. Deng and R.Q. Zhang	258
Four Layers Weaved once Structure Design and Conduction Pressure Testing Analysis for Fabric Switch T. He, M.L. Zhang, L.Q. Jin and H.W. Liu	263
Needling Spunlaced Composite Technical Discussion and Prospects W.L. Xu, L.X. Huang, X.F. Yu, S.S. Chen, Y.Y. Lou and Y. Chen	267
Preparation of Antibacterial Citronella Oil Microcapsules and their Application in Cotton Fabrics C.H. Liu, H.J. Zhou, J.Y. Liu, X.T. Li, H. Fang and Z.H. Yang	271
An Analysis of Uyghur Folk Carpet Craftsmanship of Xinjiang X. Saitaer and X.M. Yang	275
Effect of Moisture Regain of Cotton Roving on Spun Yarn Quality Y.M. Zhang, Q.M. Zhao and Z.X. Wu	279
Development of Cool Knitting Fabric Using Viscose Outlast Fiber R.C. Xu, L. Chen and Y. Liu	283
Effect of Negative Pressure on Yarn Quality in Compact Spinning with Inspiratory Groove X.C. Zhang, H.X. Zhang and L.D. Cheng	288
Effect of Polyester and Viscose Content on the Performance of Spunlaced Nonwoven Dressings Z. Zhou and R.Q. Zhang	293
Hairiness Analysis between Solospun and Ring Spun Yarns X.J. Liu and X.Z. Su	298
Manufacturing Technique and Property Evaluation of Cotton/Polyester/ Rubber Composite Warp Knit J.H. Lin, S.Y. Huang, H.Y. Yang, C.W. Lin, J.M. Chen and C.W. Lou	302
Deformation Kinetics of PET/ I-PP Sea-Island Conjugate Fibers in Laser-Heated Flow Drawing Q. Han, J.W. Li and W.H. Huang	307
Influence of Mole Ratio and Pressure on Properties of UHMWPA6/GdCl₃ Fiber by Dry-Spinning Method H.M. Zhang, P.P. Song and Q.X. Jia	312
Influence of Yarn-Reduction Technique on Bending Properties of Tapered 3D Braided Composites Z.L. Liu and N. Wang	317
Manufacturing Techniques and Mechanical Properties of Recycle High-Strength PET Compound Nonwoven C.W. Lou, A.P. Chen, J.Y. Lin, M.C. Lin, J.M. Chen and J.H. Lin	321
Overview and Correlation Study on Electrostatic Property of Different Testing Standards R.T. Zhu, P. Zhang and F.M. Nie	325
Prediction of Yarn Unevenness Based on BP Neural Network H.J. Li and X.H. Wang	329
Process Technique and Property Evaluation of Bamboo Charcoal/Polyamide/Stainless Steel Elastic Warp-Knitted Fabrics J.H. Lin, Y.T. Huang, C.M. Lin, T.T. Li, J.M. Chen and C.W. Lou	333
Research on the Method of Wool Knitted Fabric Style Evaluation X. Gu, L. Cheng and J.Q. Zhang	338
Researches on Microwave Dyeing Cotton Fabrics N.N. Lei, D.L. Gong, X.R. Ling and Y.D. Shi	343

Study of Irradiation Hydrophilic Modification of Polypropylene Meltblown Nonwovens L. Xia, P. Xi and B.W. Cheng	348
The Effect of Tucking Courses' Number on Performance of Knitted Fabric Y.Y. Qiu	353
The Processing of Porous Superfine-Denier Nylon 6 FDY Yarn J. Li, C.W. Hao, Z. Wang, Q.F. Ma and J.X. Jiang	357
Unit Yarn-Addition Technique and Microstructures of Tapered 3D Braided Preform Z.L. Liu	361
Analysis of Spandex Fiber Composition of Cotton/Spandex Knitted Fabric Z.Q. Zhang and S.Y. Yu	365
Application of Cationic Modification Agent to Pigment Dyeing Y. Wu and Z.Q. Zhang	369
Relationship between Knitting Parameters and Mechanical Properties of Warp Knitting Mesh Fabric L. Zhang, J.H. Jiang and N.L. Chen	374
Study on Pretreatment of Dye Wastewater by Fenton Oxidation Process B.R. Wang	378
Green and Efficient Degradation of Acid Blue 80 with a Macrocyclic Amido Fe Catalyzed H₂O₂ System X.Y. Ji, X.B. Chen, X.N. Wang and Z.D. Liu	382
Decolorization of Textile Wastewater Using Modified Facultative Anaerobic Baffled Reactor Z.Q. Liu, L. Tan, Y. Li and D.L. Xi	386
Study on Treatment of Dye Wastewater by UASB-Biological Contact Oxidation Process J.G. Yuan, B.R. Wang and C.D. Wang	390
Synthetic Batik Wastewater Pretreatment Progress by Using Physical Treatment H.R. Rashidi, N.M. Sulaiman, N.A. Hashim and C.R. Che Hassan	394
Heavy Metals Leaching of Active Carbon from Sewage Sludge Modified by Chitosan for Dye Wastewater Treatment X.D. Fan and X.K. Zhang	399
Application of Textile Materials in Contemporary Interior Design J. Xiao and M.F. Lin	404

Chapter 3: Textile Equipment

An Investigation of the Wear Resistance of Knitting Machinery Needle F.Q. Hu, X.D. Zeng, Z.L. Song and P.F. Sun	411
Application Boundary Element Approach to Compute the Potential of the Oblique Nine-Needle Electrodes A.L. Wang and F.P. Liu	417
Control Data Preparation of Computerize Flat Knitting Machine C. Zhang, X.G. Wu and C.J. Zhang	422
Dynamic Characteristics and Double Closed Loop Control Method of Warping Machine T. Yang, L.Y. Liu and W.R. Dai	428
Flexibility Analysis of the Cross Axis and Furcated Frame in the Spatial 4-Bar Linkage Weft Insertion Mechanism L. Zhang and K.L. Yu	435
Low Temperature Plasma Power Supply Used for the Surface Processing of Textile S.Q. Wei, J.X. Yang and Z.J. Liu	439
Research on Tension Control Model for Traction and Take-up System of Loom Y.Z. Wang, H. Jing and H.W. Chen	444
Study on the Evolution of the Looms in Ancient China B. Li, A.D. Liu, Q. Li and X.M. Yang	449
Tensile Properties of Sewing Thread and Sewing Needle Temperature at Different Speed of Sewing Machine A. Mazari and A. Havelka	456

The Influence of Nipper Machine Parameters in New Comber on Nipper Holding Process Performances	
G.X. Jia and J.Z. Ren	461
The Optimization of the Key Components of the Spinning Machine Conveyor System Based on ISIGHT	
B. Lin, X. Zhang and X.G. Liu	466
Design and Development on a Kind of Fiber Automatic Slicing Instrument	
L. Chen, Z.P. Fang, S.D. Zhang and Z.Q. Xia	471
A Novel Testing Method of the Wet Wearing Comfortability of Fabrics	
F. Ji, Y.P. Qiu, J.F. Xie and S.Y. Sun	476
Determination of Covered Spindle Speed of Home Textile Wrapped Rope	
C.D. Mao, X. Guo and D.L. Shi	480
Nonlinear Diffusion Model for Fabric Image Denoising	
D.L. Chen, D.Y. Xue and Y.Q. Chen	484
Integral Separation PID Control in the Control of Lye Concentration	
L. Huang, S.H. Zhao and L. Cui	489

Chapter 4: Apparel Design

A Method for Garment Design Drawing Extraction from Garment Image	
L.X. An and L. Wei	497
A Study on the Functional Characteristics of Apparel 3D CAD System	
Y.M. Liu and H.K. Jang	501
Application of Spirals in Fashion Design	
C.M. Liu, Y. Li and Y.M. Cui	506
Automatic Pattern Generation of Female Pants Based on Garment CAD	
Y. Zhu, Y. Cui, L. Zhang and Y.M. Liu	510
Low Carbonic Opinion about the Ecology in Fashionable Clothes	
Y. Li and D.L. Ma	516
Optimized Design of Raglan Sleeve and Evaluation	
Y. Li	520
Performance of Color-Harmony Models in Predicting Visual Color Harmony for Color-Apparel Images	
W.G. Kuo, Y.C. Wei, S.M. Lin and C.K. Lee	524
Study on the Crotch of Shorts	
Y. Zhu, Y.J. Li and S. Huang	528
Practical and Decorative Aesthetic Function of Clothes Edge in Chinese Traditional Costumes	
W. Na and Y.H. Wang	536
Research of Donghua Prototype Grading	
Y.M. Liu, N. Lin and Q.Q. Cheng	541
Research on the Clothing Pressure Distribution Model of Female Lower Limbs	
W.W. Zhang and Y.M. Li	547
Research on the Influence of the Upturned Amount of the Upturned Shoulder Shape	
H.G. Wang, Q.L. Zhang and J.X. Zhou	553
Research-Based under Clothing Human Engineering Uniforms Design	
H.Y. Wu	559
A Study of Traditional Uyghur Headwear	
X.H. Shan, X. Saitaer, J.L. Liu and A. Ruozhi	563
Applications of Fractal in Textile Engineering	
C. Qu, M. Xu, J.Z. Wang and J. Deng	567
Measurement the Contact Pressure of Compression Garment on a Smart Mannequin System	
Y.R. Wang and P.H. Zhang	572
Optimized Design of Modern Silk Clothing Based on Material Matches	
H.T. Deng	577

Protective Clothing's Function and Application - Analysis of Outdoor Protective Clothing Design and Comfort Performance C.Y. Wu, G.W. Song, C.F. Qu and L.B. Xu	581
The Application of Bias Cut in Clothing Design C.H. Lin and C.M. Lin	585
Brief Analysis of Traditional Uyghur Felt X. Saitaer	590
Brief Analysis of Uyghur Atlas X. Saitaer	594

Chapter 5: Future Trends in Textile and Apparel Industry

Hebei Home Textile Industry Cluster Optimization Research Based on SWOT Analysis of Entropy Fuzzy Comprehensive Evaluation F.P. Chen	601
How to Apply International Standard Size Specification to Fix Thai Apparel Market? F. Mungtavesinsuk	605
Research on the Technology Innovation Ability of Textile and Apparel Industry H.F. Zhu, M.L. Huang and Z. Zheng	609
Study Situation and Development Prospects of Far Infrared Thermal Underwear Z. Liu, S. Liu and X.E. Bai	613
The Strategy Study of the Development of Shanghai Textile and Garment Industry Cluster S.L. Jiang and S.Z. Hu	616
Research on Influence of Fabric Texture and Stretch on Absorption and Quick-Drying of Seamless Underwear L.H. Chen	622

Chapter 6: Engineering Materials and Functional Materials

Effect of Shot Number on Crater Formation of Magnesium Alloy Modified with High-Intensity Pulsed Ion Beam P. Li	629
Research Progress in Wear-Resistant Nanocomposite Coatings by Electroless Nickel L. Cui, S.H. Zhao and L. Huang	633
Synthesis of Nickel/Poly(aniline-Co-M-Toluidine) Composites and its Properties H. Wang, X.F. Li and C.S. Luo	638
Algaecide Activity of Organic Clay Mineral Modified by Bis-QAC F. Zhou, L.L. Zeng and W. Lu	642
An Investigation of the Microstructures and Mechanical Properties of FeSiBCuAl Alloys H.C. Cheng and M. Song	646
Analysis of Novel Structure of EVA/Hemp Stem Powder Foam Materials X.M. Hao, W.J. Ma, G. Gan, P.C. Zhao, Y. Yang and R. Wang	651
Application of Glass-Ceramic in Interior Design B. Li, W.P. Hu and L.Q. Li	655
Crash Energy Absorption of Braided Composite Tubes and its Application in Vehicle Passive Safety P. Zhang, L.J. Gui, Z.J. Fan, J. Ma and J.Y. Liu	659
Density Functional Theory Calculation of Properties of Point Defects in δ-Plutonium R.S. Li, B. He, Q.H. Zhang and G.X. Ji	672
Development of Basalt Filament Highway Guardrail J. Huang, Z.L. Zhong, H.W. Liu and J.W. Lu	678
Effects of Alumina Content on Microstructure and Properties of Alumina Dispersion Reinforced Copper Based Composites Q.S. Yong, G.M. Liu and B. Li	682
Effects of A-Site Equivalence and Non-Equivalence Substitution on Structure and Electric Properties of $K_{0.5}Na_{0.5}NbO_3$ Lead-Free Piezoelectric Ceramics H.M. Zhang, J.B. Zhao, S.B. Qu and H.L. Du	687

Effects of Cryogenic Treatment on Mechanical Properties and Corrosion Resistance of LC4 Aluminum Alloy	694
W.D. Zhang, J. Yang, J.Z. Dang, Y. Liu and H. Xu	
Effects of Surface Energy on Scattering of SH Waves by an Elastic Half-Plane with a Semi-Cylindrical Cavity	698
Z.Y. Ou, X.W. Liu and Q. Deng	
Evaluation of Flame Retardants on Wood-Flour/PE Composites	705
E.Y. Dong, Y.L. Ren and Y.S. Jin	
Fabrication of Nanofibrous Enrofloxacin Drugs with Ultrasonic- Emulsification Method	711
S.T. Lai, W. Zhang, F. Liu, D.P. Zeng, Y.H. Xu and W.Y. Zhou	
Fabrication, Tensile and Bending Properties of Wheat Straw/Polylactic Acid Green Composites	715
L.Y. Wu, F.J. Xu, P.W. Zhao and Y.P. Qiu	
Flame Retardant Wood-Based Composite Modified by Chopped Basalt Fibers and Basalt Glass Powder	722
K.F. Xie, H.W. Liu, W.W. Hu, H. Sun, S.W. Yang and T.Y. Yang	
Influence of Super Hydrophobic Modification on Protective Performance of PTFE Micropore Membrane	726
X.M. Hao, Y. Yang, X.X. Feng and F. Wang	
Initiator Concentration Effect on Rheological Properties of a pH-Sensitive Semi-IPN Hydrogel Based on Konjac Glucomannan and Methacrylic Acid	730
C. Zhang, H.M. Han, P. Qu, J. Xu, Y. Zhou, J. Wang, N. Zhao and J. Xu	
Mechanical Properties of Fir Sawdust Composite Modified by Basalt Glass Powder	734
K.F. Xie, H.W. Liu, W.W. Hu, H. Sun, S.W. Yang and T.Y. Yang	
Optimization Process and Characteristic Evaluations of Pro-Environmental Recycled PET Composite Geotextiles	737
J.H. Lin, W.H. Hsing, Y.C. Chuang, T.T. Li, H.J. Tan and C.W. Lou	
Osteoblasts Express More Collagen I and Osteocalcin on Extracellular Matrix Patterns	741
C.J. Pan, Y.D. Nie, Y.X. Dong and H.Y. Ding	
Oxidized dextran/amino gelatin/hyaluronic Acid Semi-Interpenetrating Network Hydrogels for Tissue Engineering Application	745
X.H. Geng, L. Yuan and X.M. Mo	
Polylactic Acid Bone Scaffolds Made by Heat Treatment	751
J.H. Lin, H.Y. Chung, K.D. Wu, S.P. Wen, C.T. Lu and C.W. Lou	
Preparation and Anti-Scratch Property of Supersonic-Particles-Deposited Coating on Magnesium Alloy	756
X.M. Wang, S. Zhu, Q. Chang and G.F. Han	
Preparation and Characterization of MWCNT/Ultrahigh-Molecular-Weight Polyethylene Composite Fiber	761
T. Zhang, T. Ma, J.C. Zhang, P.G. Gao, H. Zhang and F.C. Shen	
Preparation and Release Behavior of Polyelectrolyte Microcapsules	765
W. Zhang, Q.J. Li, J.X. Gong, H.Q. Li, J.F. Zhang, W.H. Liang, J. Xu and C.H. Huang	
Process Optimization of the Preparation of TiO₂ Microcapsule Used for Photo-Catalytic Degradation with Ultrasound Irradiation	770
X.M. Wang, B.B. Zhao and C.R. Zhang	
Research on Measuring Ultra-Trace Tombarthite Elements in Water by Separation and Enrichment of Solid-Phase Extraction-Inductively Coupled Plasma-Mass Spectrometry	775
Y.G. Zeng, X. Wan, L. Luo and Z.W. Huang	
Structure and Properties of the Anion Functional Alginate Fiber	780
Y. Lei, B. Du, S.H. Gao, Y.F. Qian, Y.P. Zhao and L.J. Zheng	
Study on Silk Fibroin/ Propylene Glycol Blend Films	785
Q.F. Qian, X.L. Wu, Y.Y. Shen, G.J. Li and S.Z. Lu	
Study on the Conditions of Plasma-Induced Graft Acrylic Acid on Polyethersulfone Substrates	791
R. Li, F.F. Liu and J.F. Deng	
Surface Treatment of Chopped Basalt Fibers and Mechanical Properties of Wood-Based Composite	796
K.F. Xie, H.W. Liu, W.W. Hu, H. Sun, S.W. Yang and T.Y. Yang	

Synthesis and Characterization of Nanorods of Ni-Fe Composite Oxides X.F. Li and H. Wang	800
Synthesis of Copper Nanoparticles by Chemical Reduction Method and its Influential Factors L.N. Wang, M.Y. Li and Q.X. Zeng	804
The Effect of Calcium Chloride on Polyamide 6 Electrospun Fibers W. Wei, J.T. Yeh and L. Qiu	809
The High Temperature Stability of Asphalt Composite Reinforced by Basalt Glass Powder and Basalt Fiber J.L. Lou, H.W. Liu, A.Y. Pang, H. Sun, S.W. Yang and T.Y. Yang	813
The Low Temperature Fracture of Asphalt Composite Reinforced by Basalt Glass Powder and Basalt Fiber J.L. Lou, H.W. Liu, A.Y. Pang, H. Sun, S.W. Yang and T.Y. Yang	816
The Preparation and Mechanical Property Study of Aluminum Borate Whisker/Phosphate Chrome-Alumina Wave-Transparent Composites Y.P. Wang and J.S. Liu	819
Water Absorption of Basalt Fiber Reinforced Cement T.F. Jia, H.W. Liu, F.J. Chu, H. Sun, S.W. Yang and T.Y. Yang	823
Effect of the Nucleating Agent BN on Crystallization Properties of P(3HB-co-4HB) B.X. Sun, X.Q. Feng, C.Z. Chuai, Y. Guo and S. Luo	827
Manufacturing Techniques and Mechanical Properties of Recycle Kevlar®/PET Composite Nonwoven C.W. Lou, A.P. Chen, Y.Y. Chuang, J.Y. Lin, M.C. Lin and J.H. Lin	831
Polyester Bone Scaffolds Using Polymer Adhesives C.W. Lou, C.T. Lu, M.S. Tsai, S.P. Wen, C.L. Huang and J.H. Lin	835
Preparation and Properties of RE/Novel Polyamide Composite Fibers B. Wang, Q.X. Jia and G.L. Zhao	839
Property Evaluation of Polylactic Acid Multilayer Braids Used as Bone Scaffolds J.H. Lin, H.Y. Chung, S.P. Wen, W.C. Chen, Y.S. Chen and C.W. Lou	844
Property Evaluation of Sodium Alginate/Chitosan Compound Dressings C.W. Lou, C.T. Lu, J.J. Hu, W.J. Lin, M.C. Lin and J.H. Lin	849
Property Evaluation of Sound-Absorbent Nonwoven Fabrics Made of Polypropylene Nonwoven Selvages J.H. Lin, C.H. Huang, Y.C. Chuang, Y.H. Shih, C.W. Lin and C.W. Lou	855
Research Progress in Nano-Cellulose Modification Z.L. Cheng, Q.H. Xu and Y. Gao	859
Anti-Reflective Structure of PMMA/Glass Fiber Membrane Produce by Argon Plasma Etching and Variation of Transmitted Intensity T.L. Hsin, W.H. Hsing and N. Chuang	864
Design and Synthesis of Novel Hematite Core-Shell Polymeric Composites H. Wang, X.F. Li, Y. Wang and J. Ren	869
Influence of Polyacrylate on the Compatibility in P(MMA/EA)/PU Semi-IPNs X.X. Jian, L.Q. Xiao, W.L. Zhou and H.Q. Ding	873
An Overview of Fermentation Production and Application of Bacterial Cellulose Y. Huang and Y.M. Chen	878
Electrically Conductive PEDOT-PSS/PAN Composite Fibers Prepared by Wet Spinning Y. Liu, X. Li and J.C. Lü	885
Fabrication and Mechanical Properties Analysis of Flame-Retardant Fiberboards Made of Abandoned Flax Fibers and Polyurethanes L.H. Lv, M. Zuo, C.Y. Wei, X. Wang and K. Wang	892
Preparation of Photoanode of Dye-Sensitized Solar Cell by Electrospinning Y.Y. Chu and Y.C. Chao	896

Chapter 7: Engineering Education and Management

Analysis Twitter Management Platform of College Enrollment and Employment Services G.Q. Di, W.L. Cao, R. Luo and X.Q. Zeng	903
--	-----

Implement and Design for Industrial Engineering Experiment Teaching Y. Xu and Q. Liu	907
The Ontology Based Model of Distance Education Ecosystem Q. Wu	912