

Table of Contents

Preface, Committees and Sponsors

Chapter 1 Textile Eco-Dyeing & Finishing

Sustainable Cotton Dyeing P.J. Hauser	1
Non-Formaldehyde Polyfunctional Crosslinking System for Cotton V. Vivod, C.Q. Yang and B. Voncina	5
The Development of a Bio-Scouring Process for Raw Wool Using Protease E. Smith, Q. Zhang, B. Farrand, V. Kokol and J.S. Shen	10
Effects of Solvents on the Electrical Resistance of Poly(3,4-ethylenedioxythiophene) on Textiles S. Yildiz, J.L. Cai and Q.G. Fan	16
Present State of Inkjet Printing Technology for Textile T. Abe	23
Colouring by Using Biobased Materials H. Yasunaga	28
Functional Finishes for Wool-Eco Considerations P.E. Ingham, S.J. McNeil and M.R. Sunderland	33
Influence of Low Temperature Dyeing Process on Physical and Mechanical Properties of Cashmere Knitwear F. Xie, X.P. Li, X.L. Wang, L. Qiu and Y. Tian	44
Treatment of Wool Fabrics by Argon Atmospheric Pressure Low Temperature Plasma and its Dyeing H.Q. Wang and M. Yang	49
A Study on Supercritical CO₂ Dyeing of Milk Protein Fiber with Capsanthin and its Function Z.M. Wu, X.J. Deng, J. Wang and Z.P. He	54
Research on the Dyeing Property of Natural Food Pigments on Cotton Fabric X. Zhu and Q.T. Meng	57
Dyeing of Polyester/Cotton Blends with Encapsulated Disperse/Reactive Dyes for a One-Bath Auxiliary-Free Process C.L. Meng, Y.W. Wang and J.L. Cao	61
Dyeing of Pearl Fiber by Walnut Peel Dye C.P. Dong, J. Dong and J.M. Xia	66
Studies on Crosslinking Dyeing of a Series of Crosslinking Dyes by a Crosslinker G.H. Zhu, J.L. Zhu, J.M. Wu, Y.F. Tang and B.T. Tang	72
The Process of Silk Fabric Printed with Mulberry Red N. Liu, X.C. Dai and X.R. Wang	78
Dyeing Silk with Tea Polyphenol H.F. Qian, P. Zhu, G. Bai and Y.C. Liu	83
Effect of Soaping Process on Crimp Properties of Optim Wool Q.Y. Quan and Z.G. Li	88
The Effect of Mordan Complexation of Natural Pigments on the Dyeing of Wool Dyeing of Natural Pigments Y.J. Sun and Q.T. Meng	92
The Effect of Different Plasma Treatments on the Pigment Dyeing of Cotton Fabrics Y. Chen, Z.J. Wang, F.J. Song and Y.H. Xu	96
Application of Immobilized Cellulases on Ramie Fabric Finishing M.L. Yu, X.X. Ying, J.N. Li, F.K. Zhao and J.Z. Shao	102
Ultrasonic Assisted Alkali-Oxidation Process for the Degumming of Kudzu Fiber D. Zhang, R. Wang, P.C. Zeng, R.Q. Zhang, L. Xu and L.F. Xu	106
Adsorption Behavior of Annatto Dye on Cotton Fabrics Modified by Sericin L. Zhou, J.Z. Shao, L.Q. Chai and G.D. Fu	111

Study on One-Bath Dyeing Technology and its Application for Disperse/Reactive Dyes on Polyester/Viscose Blended Fabrics	
G.M. Wang, L. Zhou, J.L. Chen, G.J. Cheng and Z.F. Hu	116
A Study on Ultrasonic Technology in Silk Degumming	
Y. Cai, H.Y. Ge and J.Q. Liu	122
Semen Litchi Extract Dyeing on Silk Fabrics	
H.Y. Yuan, J.H. Liu and Z.C. Yu	127
Reaction of a Heterobifunctional Reactive Dye (C.I. Reactive Red 195) with Amino Groups and Phenol Groups	
M. Shao, J.Z. Shao, P. Li and Y. Ding	132
Non-Aqueous Dyeing of Reactive Dyes in D5	
J.Q. Liu, H.L. Miao and S.Z. Li	138
Preparation of Organic Pigment Microcapsules and its Application in Pigment Printing of Silk Fabric	
F.Y. She, D.M. Qi, Z.J. Chen, J.Z. Shao and L. Yang	145
Short-Flow and High-Efficiency Dyeing Process of Sulfur Black on Cotton Fabrics	
F.C. Dong, J.H. Wang, G. Huang and Y.T. Jia	150
Dyeing of Silk with Natural Plant Extract from <i>Rhizoma picrorhizae</i>	
S.S. Sun, J.J. Wang and R.C. Tang	155
Physical Properties and Dyeing Behavior of the Hollow-Triangle Nylon6 Fiber	
S.H. Zhang, H.X. Wu, Z.L. Ning, X.X. Liu and H.M. Lin	160
Fading of Silk Fabric Dyed with Phellodendron	
F. Zhao, Z.W. Hu, D.B. Zhang, Z.Q. Peng and D.Y. Qin	165
Effects of Polar Solvent on the Structure and Properties of M-Aramid Fibers	
H.P. Zhang, X.X. Feng, H.L. Zhu and J.Y. Chen	169
Effect of Cellulase Hydrolysis on Dyeing Properties of Linen	
C.W. Kan, C.W.M. Yuen and Y.L. Lam	174
One-Step Ink-Jet Printing and Anti-Crease Finishing for Silk	
F.L. Guan and J.M. Wang	179
Bring Structural Color to Silk Fabrics	
Y.Y. Diao and X.Y. Liu	183
Color Fading of Indigo-Dyed Cotton Denim Fabric by Laser	
C.W. Kan, C.W.M. Yuen and C.W. Cheng	187
Stabilization of Natural Dyes by High Levels of Antioxidants	
D.P. Li, P. Calvert, C. Mello, K. Morabito, A. Tripathi, N. Shapley and K. Gilida	192
Technology and Mechanism of Redox Degumming on Apocynum	
Z.Q. Wang, X.H. Huang and C.L. Li	200
The Comparison between a Natural Reducing Agent and Sodium Dithionite in Vat, Indigo and Sulphur Dyeing on Cotton Fabric	
Z. Motaghi	207
Comparative Study of Gardenia Yellow Dye Adsorption on Cotton Fiber Surface with Reactive and Non-Reactive Modification	
L.Q. Chai, J.Z. Shao and L. Zhou	212

Chapter 2 Functional Textiles

A "Paper-Press" Finish to Wool Fabric Using the Pressure Decatiser	
N. Ly, P.D. Qian, L.Y. Yang, J.X. Cao and W.G. Chen	217
Methods to Determine Beta-Cyclodextrin on Fabric	
Y.J. Cai, L.N. Lin, M. Clark and D. Lewis	222
Preparation of PNIPAAm Grafted Cotton via O₂ Plasma and its Thermal Sensitivity	
Y.Q. Li, T.T. Liu and J.Q. Liu	226
Designing Energy-Storage Devices from Textile Materials	
X.W. Zhang, L.W. Ji, Z. Lin and Y. Li	231
Shape Memory Finishing of Wool Fabrics and Garments	
J. Lu, J.L. Hu, Y. Zhu and Y.J. Liu	235

A Study on Process Parameters for Plasma Pre-Treatment of Cotton Fiber Prior to Titanium Dioxide Wrinkle-Resistant Treatment Y.L. Lam, C.W. Kan and C.W.M. Yuen	239
A Study on Process Parameters for Imparting Hydrophobic Effect on Cotton Fiber with CF₄-Plasma Treatment W.Y.I. Tsoi, C.W. Kan and C.W.M. Yuen	244
Surface Treatment of Wool to Achieve Hydrophilic Fibre and the Effect on Subsequent Dyeing and Protease Treatment E. Smith and J.S. Shen	249
The Durability of Flame Retardant and Thermal Protective Cotton Fabrics during Domestic Laundering W.B. Chen, Y.Y. Wan, F. Que and X.M. Ding	255
Application of Vitamin E Microcapsules on Textiles G.P. Yao and J.H. Zheng	261
Improvement in UV-Protection Property of Cotton Fabric and Fastness of Finishing Performance Y.Y. Chu, Z. Guo, Q. Wang and S.Z. Cui	266
Super Anti-UV Bombyx Silk Fabric Preparation Based on Sol Coating Y. Hu, S.P. Wang, W.H. Zhao, J.Q. Liu, W. Lou and J.H. Xu	271
The Fabric Finishing Giving Fabric Mint Cool Feel and Fresh Smell Z.M. Jin, Y.L. Cai, J.W. Tao and M.B. Lin	275
Antibacterial Efficiency and Cellular Toxicity of PET-Based Hollow Fibers Containing Silver Particles L. Lin, Y.N. Chen, W.Z. Gong and S.Y. Wang	279
Research on Properties of Flame Retardant Silk Georgette H. Lu, Y. Chen and J.P. Guan	284
Effect of Water Repellent Agent on Migration of Disperse Dyes M. Xu, J.Z. Shao, J.H. Xu and B. Li	289
Promotional Effect of Ionic Liquid on the Enzymatic Shrink-Resistant Finishing of Wool Fabrics J.G. Yuan, X.R. Fan, Q. Wang and P. Wang	294
Application of β-Cyclodextrin-Menthol Inclusion Compound on the Perfume and Anti-Bacterial Finishing of Cotton Fabric by Grafting R.P. Zhang and C.Q. Cai	299
Surface Changes after Silver Formation on a Precoated Surface with Polyaniline for Textile Metallization Y.P. Zhao, Z.S. Cai and X.L. Fu	304
Preparation of PANI/PET Fabric and its Antistatic Property Study J. Li, L. Wang and J.X. Lin	309
The Application of Antibacterial Components of Euphorbia Humifusa Willd on Silk Fabrics L. Wu, P.J. Zhou and X.F. Wang	315
Finishing Process of Modified Nano TiO₂ Photocatalyst on Cotton L.M. Wang, Y. Ding, Y. Shen and Z.S. Cai	320
Technique and Effect of Wash and Wear Finish on Bast Fabric Y. Ding, X.J. Lou, L.M. Wang, Y. Shen and Z.S. Cai	326
Structure and Properties of Silk Grafted with 2-Hydroxyethyl Methacrylate by ARGET ATRP J. Liu, S.W. Li, X. Xu, T.L. Xing and G.Q. Chen	332
Research and Application of Nanometer Material Self-Cleaning Agent on Textile Fabrics H.X. Hu	337
Applying Syntan to Improve the Solid Effect of Silk/Wool Blends Dyed with Acid Dyes S.S. Sun, N. Chen, F. Yao and R.C. Tang	342
Flame Retardancy and Pyrolysis Products of Calcium Alginate Fibers C.J. Zhang, P. Zhu, J.C. Zhao and N.N. Zhang	346
UV-Durable Superhydrophobic Textiles with UV-Shielding Property by Coating Fibers with ZnO/SiO₂ Core/Shell Particles C.H. Xue, W. Yin, S.T. Jia and J.Z. Ma	351

Practical Method to Synthesize Silver Nanoparticles for Electro-Conductive Inkjet Inks in Aqueous Medium J. Natsuki and T. Abe	356
Anti-Felting Property of Wool Fabric Treated by Excilamp and Enzyme Q.J. Zhang and K.L. Yan	360
Chapter 3 Green Chemistry and Functional Chemicals	
Dyes & Fluorochromes as Imaging Agents in Biology and Medicine - New Opportunities for Dyestuff and Textile Chemists R.W. Horobin	366
Dyeing and Anti-Ultraviolet Properties of Anthocynins Extracted from Purple Sweet Potatoes for Silk L.Y. Peng, H.Y. Mao, Y.F. Xiu, K.R. Zhang and C.X. Wang	371
Relationship between Various Chemical Treatments on the Mechanical, Anti-Felting and Dyeing Properties of Wool M. Mori and M. Matsudaira	376
Synthesis and Crystal Structure of the Complex of (R,R)-N,N'-bis(salicylal)-1,2-Cyclohexanediamine with Fe³⁺ Y.Z. Jiang, L.Z. Tian, Y. Zou and L.Q. Zhang	382
Synthesis and Crystal Structure of a New Ni²⁺ Complex¹ Y.Z. Jiang, Y. Zou and L.Q. Zhang	387
Synthesis and Transport of K⁺ Ions of Mono-Substituted Calix[4]arenes X.C. Tao and L. Li	392
A Colorific and Fluorescent Dual Signal Probe for DNA T. Wu and X.J. Peng	398
Electrochemical Synthesis of Methoxy-Dimethylbenzene and its Application in Gasoline F.T. Chen, S.C. Yu and S.S. Zhang	403
A Novel Procedure for the Synthesis of 1,2:5,6-di-O-Isopropylidene-D-Glucrofructose by Ultrasound Y.F. Tang, X.S. Zhu, J.L. Zhu, J.M. Wu and H.K. Zhao	408
Effect of Gold Nanoparticles on Fluorescence Properties of Hyperbranched Poly(amido amine)s M.J. Ding, Y. Wang, X.K. Sun and G.H. Jiang	413
Synthesis of Symmetrical N,N'-Alkylidene Bisamides Using Zinc Chloride as a Lewis Acid Catalyst X.X. Shen, Y.L. Shen, Y.F. Han and Q. Liu	421
Preparation and Application of Modified Nano-Titanium Dioxide Agent X.H. Liu, X.C. Tao and E.Y. Chi	426
Synthesis of Monochlorotriazinyl-β-Cyclodextrin as a Novel Textile Auxiliary J.H. Liu, H.C. Xu, L. Shen, R.Y. Chen and Z.C. Yu	431
Research on the Mechanism of a Novel Si/P Flame Retardant R. Wang and X.C. Wang	436
Construction of Reagentless Biosensor Based on Self-Assembly and Electrodeposition for Determination of Hydrogen Peroxide D.J. Zhao, Y.H. Chen, C.D. Tu, Y.F. Xuan and F.N. Xi	442
Synthesis of a Flame Retardant Containing Nitrogen-Phosphor and its Application on Silk Fabric Y.M. Yang, J.P. Guan and G.Q. Chen	447
Lipase Immobilization on Functional Group Controlled Surfaces P. Ye, X.P. Wang, Z.P. Han, J. Yang and R.B. Wan	452
Purification and Characterization of a Bioscouring Pectate Lyase from <i>Paenibacillus</i> sp. WZ008 with High Activity on Pectin X.X. Ying, L.N. Chen, M.L. Yu, Q. Xue and Z. Wang	457
A New Eudesmane Sesquiterpenoid Glycoside from <i>Lactuca Sativa</i> L var. <i>Anagustata</i> H. Huang, B.C. Zhou, J.S. Wang, J.J. Du, P.P. Yu and Y.F. Han	462
Influence of the Hydrophile-Lipophile Property of Cross-Linker on the Properties of Acrylate Latex and its Film M.H. Wu, J.P. Dong, D.M. Qi, C. Qian and X. Jiang	466

Synthesis of Polystyrene-<i>b</i>-poly(<i>n</i>-butyl acrylate)-<i>b</i>-Polystyrene Triblock Copolymers as Binder for Pigment Dyeing	473
L. Yang, C.J. Hu, H. Yang and D.M. Qi	
A Route to Modify Polymeric Pigment Dispersants with Polysiloxanes by Atom Transfer Radical Polymerization	478
C.X. Huang, L.M. Yi, H.Y. Yuan and C.Q. Chen	
Polymeric Shell with Low Permeability	484
J.W. Xing, C.S. Xu, Y. Ren, W.Z. Shi and J.S. Liu	
Encapsulation as a Green Chemistry Approach in Eco-Dyeing/Finishing	489
B. Voncina, A.M. Le Marechal and T. Feczko	
Encapsulation of Pigment Using Natural Polysaccharides	494
M.M. Rekaby and Q.G. Fan	
Application of Orange Phenylazo-β-Naphthol-Containing Sulfonamide Disperse Dyes Designed for Poly(lactic acid)	503
Z.H. Cui, J.C. Guo, W.G. Chen and B.T. Tang	
An Investigation into the Anti-Ultraviolet Performance of Natural Tea Pigment	508
Z.P. He and Z.M. Wu	
Synthesis and Application of Reactive Dyes Containing a Hydroxybenzophenone Ultraviolet Absorber	512
L. He, L.H. Lu and D.F. Zhao	
Extraction of Functional Capsanthin	517
Z.M. Wu, X.J. Deng, Z.P. He and J. Wang	
Reflux Extraction of Aloetic Anthraquinone	522
Z.P. He, Z.M. Wu and Y.Y. Han	
Preparation and Application of Waterborne Unsaturated Fiber Crosslinking Agent	526
J.L. Chen, X.M. Zhang, Y.X. He and C. Miao	
Biodegradation of Paracetamol by Aerobic Granules in a Sequencing Batch Reactor (SBR)	531
J. Hu, L. Zhou, Q.W. Zhou, F. Wei, L.L. Zhang and J.M. Chen	
A Novel Phenolic Rigid Organic Filler/Isotactic Polypropylene Blend	536
D.M. Qi, R. Zhang, J. Xu, X.C. Shen and K.H. Nitta	
 Chapter 4Pollution Control and Energy Conservation	
The Impact of Textile Wet Colouration on the Environment in 2011	540
C. Hurren, Q. Li and X.G. Wang	
Visible-Light Photocatalytic Degradation of Methylene Blue with Porphyrin-Sensitized TiO₂	544
J.M. Wan, Z.Z. Wu, H.G. Wang and X.M. Zheng	
Degradation Kinetics of Reactive Brilliant Red X-3B Dye by UV/Mn²⁺/H₂O₂/Micro-Aeration	549
Y.J. Cai, X.J. Yang, D.S. Xia and Q.F. Zeng	
Electrochemical Treatment of Simulated Dye Wastewater	555
F.T. Chen, S.C. Yu, X.Q. Mu and S.S. Zhang	
Adsorption of Basic Dye in Aqueous Solution by Mesoporous Carbon Materials	559
X.P. Dong, J. Fu, J.H. Jin and C. Chen	
All-Solid-State Zn²⁺-Selective Electrodes for Wastewater Measurements	564
L. Ju, S.Y. Yu, X.Y. Zhang and J. Yuan	
Photocatalytic Degradation of Dyes Using TiO₂-Supported Diatomite	568
J.X. Lin, L. Wang and C. Sun	
Application of Modified Chitosan for Treatment of Silk Degumming Wastewater	573
L. Wang, L. Wang, J.X. Lin and D. Ni	
Advanced Treatment of Textile Wastewater for Reuse by Ozonation-Biological and Membrane Processes	578
X.J. Wang, Q.K. Xu and L.Q. Qi	
Comparative Study on the Treatment of Biologically Treated Textile Effluent by Nanofiltration and Reverse Osmosis for Water Reuse	584
S.C. Yu, Z.W. Chen, M.H. Liu and J.W. Zhao	

Textile Wastewater Treatment Using Combined Process of Biological Wriggle Bed and Ozone Biological Aerated Filter	
Z.M. Fu, Y.G. Zhang and X.J. Wang	589
Surface Refining Treatment of Filter Media	
F. Wang, Y.H. Guo, H.P. Zhang and H.Y. Tang	593
Photocatalytic Degradation Kinetics of Reactive Red 3BS Using Ag Doped TiO₂	
B. Yu, Z.S. Cai, W.M. Wang and C.C. Lu	598
Adsorption Kinetics and Isotherm of PAHs (Naphthalene) on Silk Fabric	
W.L. Mao, H.X. Chen and L. Wang	603
Effect of Chemical Finishing on Water Retention of Knitted Pure Cotton Fabrics	
W.J. Xu, Y.G. Zhang and Y.Y. Ge	608
The Impact of Liquid Surface Tension on Fabric Drying Efficiency	
J.L. Tu, C.J. Qian, H.Y. Ge, J.P. Wang and J.Q. Liu	613
Cotton Woven Fabric with Less Energy Consumption during Home Laundry	
L.M. Zhou and Y.G. Zhang	619

Chapter 5 Fundamental Research and Test & Characterization

Optimization of Washing Conditions with Lipase by Response Surface Methodology	
C.Y. Xu, J. Ren and J.Z. Shao	625
Stereovision for 3D Measurements of Fabric Pilling	
B.G. Xu	631
A Time-Saving Measuring Method for Mass Fraction of Fiber Contained in Blend Fabric	
C.Q. Zhang and C.X. Liu	636
Research on Detecting Tris-(2,3-dibromopropyl)-Phosphate in Textiles with the HPLC/DAD Method	
K.J. Fu, L.S. Yang, C.S. Feng and L. Chen	640
The Evaluation of Fabric Prickle Based on BP Neural Network	
T.T. Li, J.Z. Shao, J.L. Zhou and T.Z. Zhang	645
Comparison of Color Measuring Methods for Yarn Dyed Woven Fabrics	
Q.Z. Li and C.Y. Zhu	651
The Efficient Wool Keratin Dissolution Based on New Reductant	
J.B. Wang, J.Y. Liu, J. Wang and D.S. Bin	656
Alkaline Hydrolysis of Polyester in the Presence of Ionic Liquids	
Z.Q. Dong and G.Q. Chen	661
Effects of Various Treatments on Structure and Performance of Naturally Green Cotton	
Z.R. Tang, M.B. Ma, H.X. Li, X.S. Zhao and W.L. Zhou	666
Effect of Metal Ion Content in Dyebath on the Color of Wool Dyes	
B.H. Wang, Y.S. Wang, L.C. Huang and H.J. Liu	673
Alkali Resistance of the Silk/PLA Mixture	
K.Q. Liu, H. Tang, Y.N. Rui and G.Q. Chen	687
Fluorescence Analysis of Detergency Mechanisms of Olive Oil on Single Cotton Fibers	
J. Ren, J.Z. Shao, M.L. Yu, C.Y. Xu and Y.Q. Qiu	691
The Effect of High-Voltage Electrostatic Field on the Water Performance	
Q. Wang, J. Min and J. Tian	695
Influence of Oxygen Plasma Pretreatment on Fabricating PEI/TiO₂/SiO₂ Multilayer Films	
Y.R. Jia, J.Z. Shao and Q.G. Fan	699
A Powerful Nonlinear Optical Technique to Characterize Surfaces and Interfaces Sum Frequency Generation Vibrational Spectroscopy	
X.L. Lu, Z. Chen and X.P. Wang	703
Establishment of Database of Color Matching System for Supercritical CO₂ Dyeing	
G. Huang, F.C. Dong, J.H. Wang and Y.T. Jia	708

Chapter 6 Others

Semicrystalline Structure and Mechanical Properties of Polyolefin-Based Materials	
M. Kuriyagawa and K.H. Nitta	713
Projectile Impact Behavior of Z-Fiber Reinforced Laminar Composites	
B.S. Nashed, J.M. Rice and Y.K. Kim	717

A Comparative Study of Colour Fading Behaviour of Cotton Denim Fabric Manufactured by Conventional Ring-Spun and Torque-Free Ring-Spun Yarn by Cellulase Treatment C.W. Kan, C.W.M. Yuen and W.Y. Wong	726
Influence of Excilamp Treatment on Characteristics of Carbon Fibers M. Yang, J. Yuan and K.L. Yan	731
Characterization Method for Shape Factor of the Hollow-Triangle Fiber S.H. Zhang, H.X. Wu, L.N. Zhang and X.X. Liu	736
Study on the Terahertz Time Domain Spectrum of P-Chloroaniline S. Chen, C. Yan, B. Luo and B. Yang	741
Effect of Cellulase Enzyme Treatment on the Pulp Beatability and Fiber Properties Y.J. Tang, G.W. Huang, J. Xia, G.X. Xue and Y. Zhang	746
Comparative Effect of Hydrophilic and Lipophilic Nanosized Titanium Dioxide on the Properties of Coated Paper Y.J. Tang, M. Chen, Y.M. Li, Y. Zhao and X.M. Zhang	750
Enzymatic Preparation of Nanocrystalline Cellulose from Bamboo Fibers Y. Zhang, G.X. Xue, X.M. Zhang and Y. Zhao	754
Extraction of Bamboo Nanofibers Using Acid Hydrolysis for Functional Chemicals of Ecological Dyeing and Finishing Y. Zhang, G.X. Xue, X.M. Zhang and Y.J. Tang	759
Study on Production Process of PSF from Recycled Bottle PET Flakes for Waterproof Felt A.X. Zha	764
Structure and Physical Properties of Jade Fiber S.L. Cui, J.P. Zhu, B.M. Li, S.P. Wang and Y. Liu	767
Dynamic Simulation Study on Anti-Scaling Corrosion Inhibitors of Circulating Cooling Water for Thermal Power Plants M.J. Sun, P. Wang, C.G. Liu, Y.H. Shan, C.B. Zhang and M. Cheng	772
Appendix	
Development of Eco-Friendly Colouration Processes for Textiles C. Carr	777
Sustainability Trends in Home Laundry: Challenges and Opportunities for Textile Chemists J.P. Wang	778
Biological Colors Q.G. Fan	779
Environmentally Friendly Multifunctional Treatments of Textiles with Photo-Active Colorants N. Liu and G. Sun	780
Putting Future into Textiles F. Funke	781
Wet-on-Wet Padding for Energy Conservation Y.Q. Yang	782
Fluorescence Chemosensors Based on Intramolecular Charge Transfer and Intramolecular Energy Transfer X.J. Peng	783