

# Table of Contents

## Preface and Committees

<b>Pyrolysis of Waste Plastics: Effect of Heating Rate on Product Yields and Oil Properties</b>	1
P. Tao, X.B. Ma, D.Z. Chen and H. Wang	
<b>Mechanical Properties of Cabbage-Based Edible Films</b>	11
X.X. Wang, J. Zhou, Z. Wang, Y.Q. Niu and Z.S. Ma	
<b>Gas-Selective Permeability of Soy Protein Isolate Film</b>	17
Z. Wang, X.X. Wang, J. Zhou and Z.S. Ma	
<b>Mechanical Properties of Methylcellulose-Based Films Containing Stearic Acids</b>	23
T. Zhong, Z.X. Lian, Z. Wang, Y.Q. Niu and Z.S. Ma	
<b>Influence of Contaminative Bacteria during Cultivation of <i>Chlorella pyrenoidosa</i> in Soybean Processing Wastewater</b>	27
Y.N. Zhong and Y.L. Zhang	
<b>Effect of Synthetic Wastewater by Electrochemical Pretreatment on <i>Chlorella vulgaris</i> Growth and Nutrients Removal</b>	33
M.Z. Wang, Z.W. Zhu, W. Cao, H.D. Zhou, Y. Wu, B.M. Li and Y.H. Zhang	
<b>Effects of Fermentation Temperature and Waste Paper (as Auxiliary Feedstock) on Biogas Yield of <i>Ulva pertusa</i></b>	43
X.C. Li, X.H. Gu, G.C. Zhang, C.X. Mu and Q. Zhang	
<b>Influence of the Microwave and Ultrasonic Synergistic Effect on Properties of Methylcellulose/Stearic Acids Films</b>	51
T. Zhong, Z.X. Lian, Z. Wang, Y.Q. Niu and Z.S. Ma	
<b>Simulation of Nitrogen and Phosphorus Removal in Amon Integrative Reactor by Activated Sludge Model 2D</b>	55
M. Jiang, Y.L. Zhang, X.F. Zhou and Y.N. Zhong	
<b>Fatty Acids Effect on Properties of Methylcellulose-Based Bi-Layer Edible Films</b>	63
T. Zhong, Z.X. Lian, Z. Wang, Y.Q. Niu and Z.S. Ma	
<b>Catalytic Conversion of Tar Compounds from Biomass over Modified Ni/Olivine Catalysts</b>	67
C.S. Zhang, Z.J. Li, X.M. Xu, L. Yang and R.Q. Zhang	
<b>Acaricidal Activities of <i>Albizia julibrissin</i> Durazz Extracts against <i>Tetranychus cinnabarinus</i> (Acari: Tetranychidae)</b>	77
D.D. Wang, F.L. Jia, J. Chen, W.J. Yu and G.H. Dai	
<b>Fermentation of Lignocellulosic Wastes for Volatile Fatty Acids at Different Temperatures under Alkaline Condition</b>	85
L. Li, Y. Wen, C. Xu, L.H. Wang and Q. Zhou	
<b>Transesterification of Jatropha Oil to Biodiesel by Using Catalyst Containing Ca(C<sub>3</sub>H<sub>7</sub>O<sub>3</sub>)<sub>2</sub> as a Solid Base Catalyst</b>	93
C.J. Li, Z.W. Huang, Y.J. He, D. Zhou, C. Du, S.C. Zhang and J.M. Chen	
<b>The Carbon Emissions Rights Optimization under Regional Economic Growth Disparities</b>	103
Z. Xie, B.Q. Sun, W.Q. Jin and X.X. Wang	
<b>Preparation and Modification of Carbon Blacks from Wastes</b>	111
B.H. Zhang, H.J. Tan, H.H. Suo, H.D. Li and A.J. Wan	
<b>Preparation and Properties of Thermo-Sensitive Resin for Processless CTP Plate</b>	123
B.H. Zhang, H.L. Cui, X.W. Xue, P.P. Shen and A.J. Wan	
<b>Catalytic Performance of SO<sub>4</sub><sup>2-</sup>/TiO<sub>2</sub> for the Conversion of High Fructose Corn Syrup</b>	131
J. Zhang, S.B. Wu and B. Li	
<b>The New Technologies in Chitin/Chitosan Preparation</b>	143
S.F. Yang, H.C. Zhang, Y.X. Shi and A.J. Wan	
<b>The Latest Applications of Chitin and Chitosan in Wastewater Treatment</b>	151
S.F. Yang, H.C. Zhang, Y.X. Shi and A.J. Wan	