

Table of Contents

Preface and Committees

Pyrolysis of Waste Plastics: Effect of Heating Rate on Product Yields and Oil Properties P. Tao, X.B. Ma, D.Z. Chen and H. Wang	1
Mechanical Properties of Cabbage-Based Edible Films X.X. Wang, J. Zhou, Z. Wang, Y.Q. Niu and Z.S. Ma	11
Gas-Selective Permeability of Soy Protein Isolate Film Z. Wang, X.X. Wang, J. Zhou and Z.S. Ma	17
Mechanical Properties of Methylcellulose-Based Films Containing Stearic Acids T. Zhong, Z.X. Lian, Z. Wang, Y.Q. Niu and Z.S. Ma	23
Influence of Contaminative Bacteria during Cultivation of <i>Chlorella pyrenoidosa</i> in Soybean Processing Wastewater Y.N. Zhong and Y.L. Zhang	27
Effect of Synthetic Wastewater by Electrochemical Pretreatment on <i>Chlorella vulgaris</i> Growth and Nutrients Removal M.Z. Wang, Z.W. Zhu, W. Cao, H.D. Zhou, Y. Wu, B.M. Li and Y.H. Zhang	33
Effects of Fermentation Temperature and Waste Paper (as Auxiliary Feedstock) on Biogas Yield of <i>Ulva pertusa</i> X.C. Li, X.H. Gu, G.C. Zhang, C.X. Mu and Q. Zhang	43
Influence of the Microwave and Ultrasonic Synergistic Effect on Properties of Methylcellulose/Stearic Acids Films T. Zhong, Z.X. Lian, Z. Wang, Y.Q. Niu and Z.S. Ma	51
Simulation of Nitrogen and Phosphorus Removal in Amon Integrative Reactor by Activated Sludge Model 2D M. Jiang, Y.L. Zhang, X.F. Zhou and Y.N. Zhong	55
Fatty Acids Effect on Properties of Methylcellulose-Based Bi-Layer Edible Films T. Zhong, Z.X. Lian, Z. Wang, Y.Q. Niu and Z.S. Ma	63
Catalytic Conversion of Tar Compounds from Biomass over Modified Ni/Olivine Catalysts C.S. Zhang, Z.J. Li, X.M. Xu, L. Yang and R.Q. Zhang	67
Acaricidal Activities of <i>Albizia julibrissin</i> Durazz Extracts against <i>Tetranychus cinnabarinus</i> (Acari: Tetranychidae) D.D. Wang, F.L. Jia, J. Chen, W.J. Yu and G.H. Dai	77
Fermentation of Lignocellulosic Wastes for Volatile Fatty Acids at Different Temperatures under Alkaline Condition L. Li, Y. Wen, C. Xu, L.H. Wang and Q. Zhou	85
Transesterification of Jatropha Oil to Biodiesel by Using Catalyst Containing $\text{Ca}(\text{C}_3\text{H}_7\text{O}_3)_2$ as a Solid Base Catalyst C.J. Li, Z.W. Huang, Y.J. He, D. Zhou, C. Du, S.C. Zhang and J.M. Chen	93
The Carbon Emissions Rights Optimization under Regional Economic Growth Disparities Z. Xie, B.Q. Sun, W.Q. Jin and X.X. Wang	103
Preparation and Modification of Carbon Blacks from Wastes B.H. Zhang, H.J. Tan, H.H. Suo, H.D. Li and A.J. Wan	111
Preparation and Properties of Thermo-Sensitive Resin for Processless CTP Plate B.H. Zhang, H.L. Cui, X.W. Xue, P.P. Shen and A.J. Wan	123
Catalytic Performance of $\text{SO}_4^{2-}/\text{TiO}_2$ for the Conversion of High Fructose Corn Syrup J. Zhang, S.B. Wu and B. Li	131
The New Technologies in Chitin/Chitosan Preparation S.F. Yang, H.C. Zhang, Y.X. Shi and A.J. Wan	143
The Latest Applications of Chitin and Chitosan in Wastewater Treatment S.F. Yang, H.C. Zhang, Y.X. Shi and A.J. Wan	151