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after Thermal Treatment M.Y. Zhang, A.M. Hao and T. Kuba	1963
Research for Removing the Surface Floating Oil of Wood Vinegar Q. Yu, Q. Gao, M.F. Bi, L. Yu, J.T. Yang, L. Shen and L.D. Liang	1968
Experimental Study about Modified Fly Ash of Treating Phosphorus Wastewater H.X. Cao, Y. Tao, B.L. Liu and Q.Z. Feng	1972
The Removal of Mercury from Wasterwater by Using Fishwater Fish Scales J. Shu, Y. Peng, C.D. Pan, X.Z. Cheng and L. Deng	1977
<b>Disposal of Cuprous Chloride Waste Water with Extraction</b> J. Zhang, J.Q. Xue, Y. Liu, C. Wang, X.T. Quan and T.T. Jia	1981
Amino Acids Preparation from Hydrolysis of Corn Residue in Sub-Critical Water L.Y. Xing, J.Y. Chen, Z.L. Li, L. Chen and C.S. Chen	1985

Influence of the Number of Pathogen Causing Banana Fusarium Wilt and Soil Factors on the Infection Degree of Banana Plants X. Deng, Q.F. Li, C.Y. Wu and J.K. Liu	1989
Design of Impinging Stream-Cavitations and Micro-Electrolysis Reactor and Treatment of High Concentration Wastewater	
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P. Wang, X.A. Wei, W.D. He and Y.L. Shi	1998
Comparison of the A <sup>2</sup> /O and Reversed A <sup>2</sup> /O Process at Low Organic Loading in Wuhan Shahu WWTP and the Optimized Program X. Wang and L. Zhang	2003
Pyrolysis Characteristics of Pine Powder and Polyvinyl Chloride of Municipal Solid Waste in Thermogravimetric Analyzer H.Y. Meng, S.Z. Wang, L. Chen, J. Zhao and Z.Q. Wu	2009
Base on Set Pair Analysis for Rural Domestic Refuse Treatment Technology Evaluation J. Zhang, C.R. Jia and X.F. Xia	2013
<b>Experimental Study on Pyrolysis and Combustion Characteristics of PVC and PP</b> L. Chen, S.Z. Wang, H.Y. Meng, J. Zhao and Z.Q. Wu	2017
An Experimental Study on Desalination Brine for Electrolytic Chlorination X. Long, K.C. Liu, L.J. Zhang and X. Nie	2022
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