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T. Fu, G. Zheng, W.J. Zheng, Y. Sun, J.Y. Li and Y.N. Hao	1901
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H.Y. Wang, B.X. Jia, Y.Q. Li, R. Wang, C. Liu and L. Li	1905
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F. Liu, J.W. Hu, X.F. Huang, J.A. Chen, L.Y. Fu and J. Luo	1913
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P. Lv, L.Z. Yang, Y. Zhang and F. Tang	1938
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D.M. Huang, Y.Q. Cai, H.J. Yu, Y.F. Shi and X.Y. Huang	1943
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W. Liu, D.S. Huang, N. Wu, J.C. Zhang, P. Yi and J. Yang	1947
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Y. Wang, H.Y. Liu, W.L. Zhang, T.T. Zhao, H. Li, Z.X. Li and X.J. Pan	1952
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C.Q. Tu and X.R. Wen	1957
Analysis of Sucrose Esters by HPLC Using Charged Aerosol Detector	
X.W. Miao, Z.D. Chang, W.J. Li, R.R. Zhao, B. Dong and L.F. Liang	1962
Determination of Total Arsenic in Chinese Traditional Herbs by High Pressure Digestion-Hydride Generation Atomic Fluorescence Spectrometry	
W. Liu, Q.S. Pan, P. Zhang, D.S. Huang, A.P. Fan and P. Yi	1967
Using the Quantitative Structure-Property Relationship to Correlate the Infinite Dilution Activity Coefficients of Organic Compounds in 1-Ethyl-3-Methylimidazolium Diethylphosphate	
M.L. Ge, R.S. Zhao, J.M. Xiong, Y.F. Yi and F.C. Ding	1971
Effect of the PH on the Dispersal of Pt on the Alumina	
W. Li, Y.J. Hou, J. Guo, H.Q. He, J.J. Cheng, Y.X. Cai and Y.L. Hao	1975
Removal of Trace Cu(II) from Aquatic Condiment Using Sulfhydryl Lignin	
Y.L. Qu, X. Wan, Y.F. Xu, X.K. OuYang, Q.D. Yu and W.N. Li	1979

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S.J. Liu, L.L. Yu, Q.S. Meng and W. Gao	1984
Study on the Structure of Mangrove Polyflavonoid Tannins with MALDI-TOF Mass Spectrometry and NMR	
L.L. Zhang, Y.M. Wang, D.M. Wu, M. Xu and J.H. Chen	1988
The Extrapolation Method for Hyper Differential Scanning Calorimetry	
P. Liu, C.Q. Gu, Q.Z. Zeng and H.H. Liu	1994
Spectrophotometric Determination of Trace Ruthenium by its Catalytic Effect on Oxidation of 3,5-DiBr-PADAP with KIO₄	
Z.R. Zhou, Q. Wang and S.Y. Zhang	1999
The Physical and Chemical Analysis of Carbohydrate Content in Acorn Kernel	
S.H. Li, J.L. Xia, C.P. Wang, M. Li, K. Huang, F.X. Chu and Y.Z. Xu	2006
Column Chromatography Separation of Polypropylene Fibre Spin-Finishes	
R. Ren and B.X. Deng	2013
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M. Li, J.L. Xia, S.H. Li, K. Huang and M. Wang	2018
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