Abstract Submitted
for the MAR14 Meeting of
The American Physical Society

A new insight into the counterion distribution of charged polymer brushes[1] XIAO CHU, Institute of Chemistry, Chinese Academy of Sciences, GUANGMING LIU, University of Science and Technology of Chian, JIANG ZHAO, Institute of Chemistry, Chinese Academy of Sciences — Counterions distribution of a number of polyeletrolyte brushes are investigated using a combination of methods as QCM-D, ellipsomety and single molecule fluorescence microscopy. The experiemtnal evidence show that, as the salt level increases, counterions penetrate into the brushes, bringing about enhanced swelling and mechanical response of the brushes. The results have privided a new picture about counterion distribution of charged polymer brushes.

[1]Supported by National Natural Science Foundatrion of China

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Date submitted: 14 Nov 2013 Electronic form version 1.4