

Abstract Submitted
for the MAR17 Meeting of
The American Physical Society

Control of Macromolecular Architectures for Renewable Polymers: Case Studies. CHUANBING TANG, Univ of South Carolina — The development of sustainable polymers from nature biomass is growing, but facing fierce competition from existing petrochemical-based counterparts. Controlling macromolecular architectures to maximize the properties of renewable polymers is a desirable approach to gain advantages. Given the complexity of biomass, there needs special consideration other than traditional design. In the presentation, I will talk about a few case studies on how macromolecular architectures could tune the properties of sustainable bioplastics and elastomers from renewable biomass such as resin acids (natural rosin) and plant oils.

Chuanbing Tang
Univ of South Carolina

Date submitted: 10 Nov 2016

Electronic form version 1.4