

Deciphering the quaternary structure of PEDOT:PSS solution by combining SAXS and SANS characterizations

Thursday, 12 November 2020 17:19 (1 minute)

Poly(3,4-ethylenedioxythiophene) (PEDOT) is a widely used conductive polymer material for organic thermoelectric device, stretchable bioelectronics, optoelectronics and so on. Its success is largely attributed to the availability of the polymer dispersion. Recently people try to decipher the highly conductive nature of the PEDOT:PSS hybrid from molecular assembly with structural hierarchy. Meanwhile, a quaternary structure is well recognized in the complex systems like proteins, and it plays crucial roles in determining the protein functionality. Small angle scattering is a widely employed technique for the structural deciphering of protein solution. In this presentation, we will introduce our recent work on deciphering the quaternary structure of PEDOT:PSS solution based on the combined SAXS and SANS data.

Level of Expertise

Experienced Research

Speakers Gender

Male

Do you wish to take part in the poster slam

Yes

Primary author: Prof. ZHANG, PENG (School of Materials Science and Engineering, Sun Yat-sen University)

Co-author: Ms LIU, Zhen (Sun Yat-sen university)

Presenters: Prof. ZHANG, PENG (School of Materials Science and Engineering, Sun Yat-sen University); Ms LIU, Zhen (Sun Yat-sen university)

Session Classification: Poster Session

Track Classification: Chemistry & Crystallography