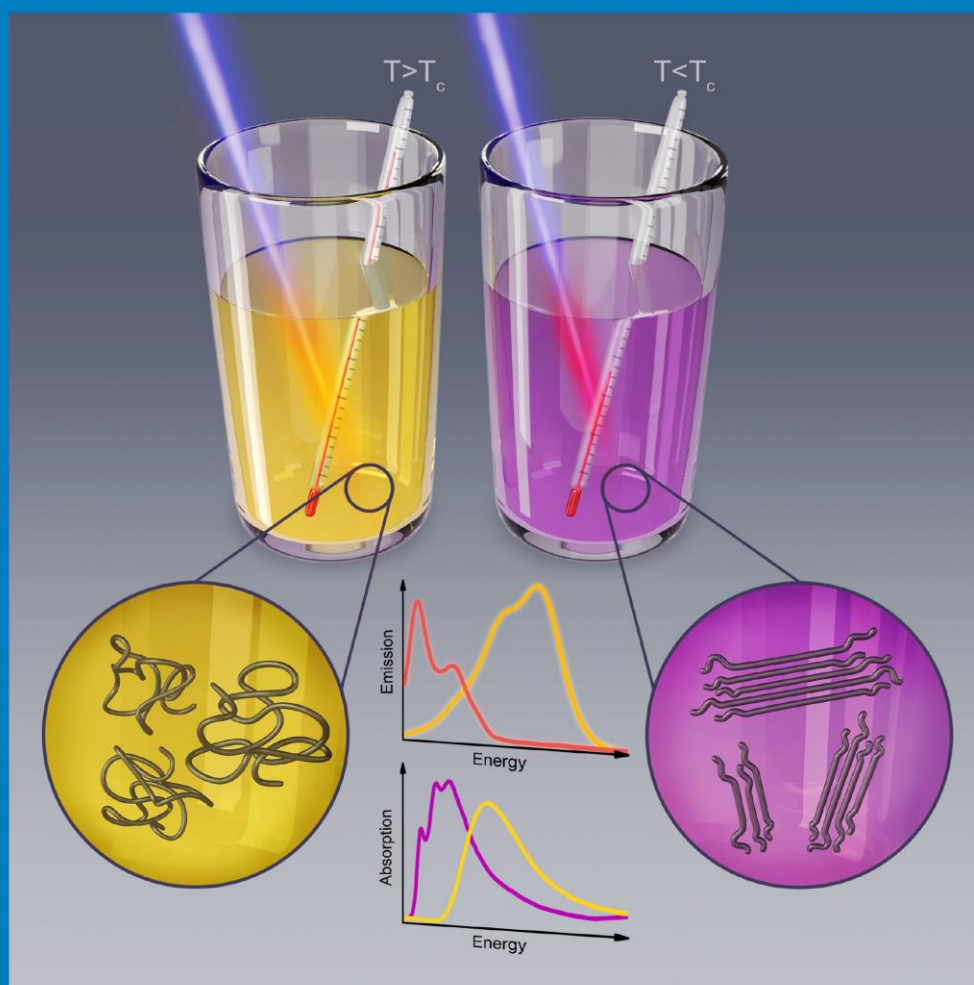


Our Perspective article “Temperature Induced Order–Disorder Transition in Solutions of Conjugated Polymers Probed by Optical Spectroscopy” is featured on the front cover of the 5 January 2017 issue of The Journal of Physical Chemistry Letters!

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Temperature-Induced Disorder–Order Transition in Conjugated Polymer Solution Probed by Optical Spectroscopy

About the Cover:

Temperature-induced disorder–order transition in conjugated polymer solution probed by optical spectroscopy. Conformational changes and phase transitions in conjugated polymers can be induced by reducing the temperature in solution. The associated changes in the electronic structure are manifested in their optical spectra such as absorption and emission. As a result, the mechanism and kinetics of disorder–order transitions in conjugated polymers can be probed effectively by optical spectroscopy. This issue's Perspective by Panzer et al. describes how aggregation proceeds in conjugated homopolymers, low-bandgap polymers, and donor–acceptor-type molecules by a coil-to-globule-like first-order phase transition. Notably, the chain expands before it collapses into a highly ordered dense state. The role of side chains and the impact of changes in the environmental polarization are addressed.

Corresponding Literature:

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