

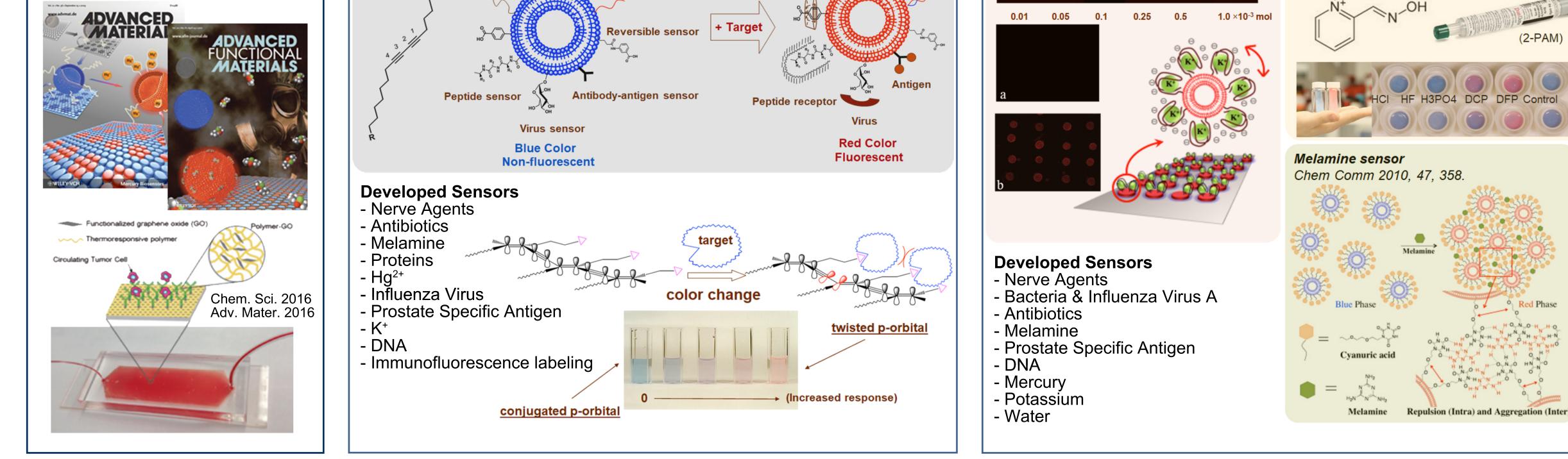
Functional Organic and Polymeric Materials for Optical, Electronic, and Thermal Applications

Wenhao Shao, Jinsang Kim Group

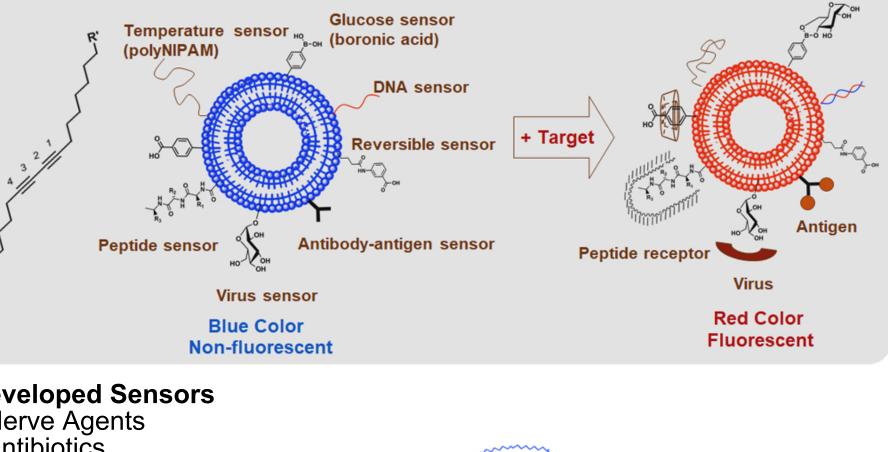




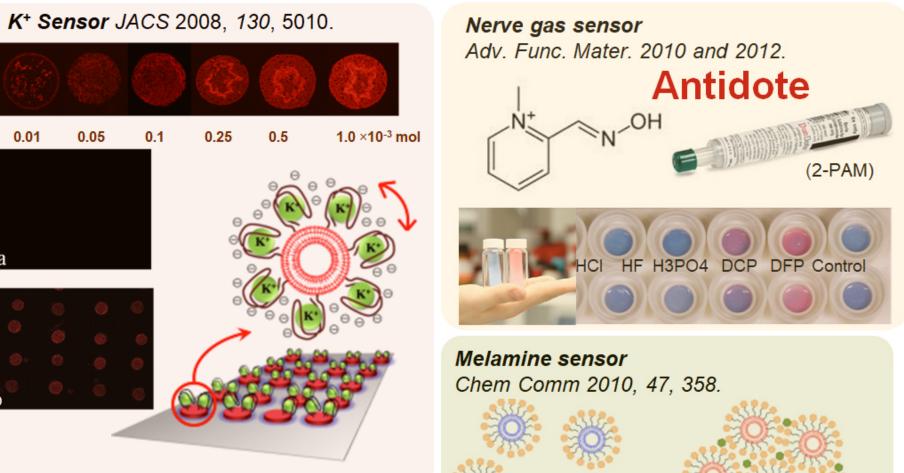
- Circulating Tumor Cell Detection - Platelet Activation Monitoring - miRNA Detection







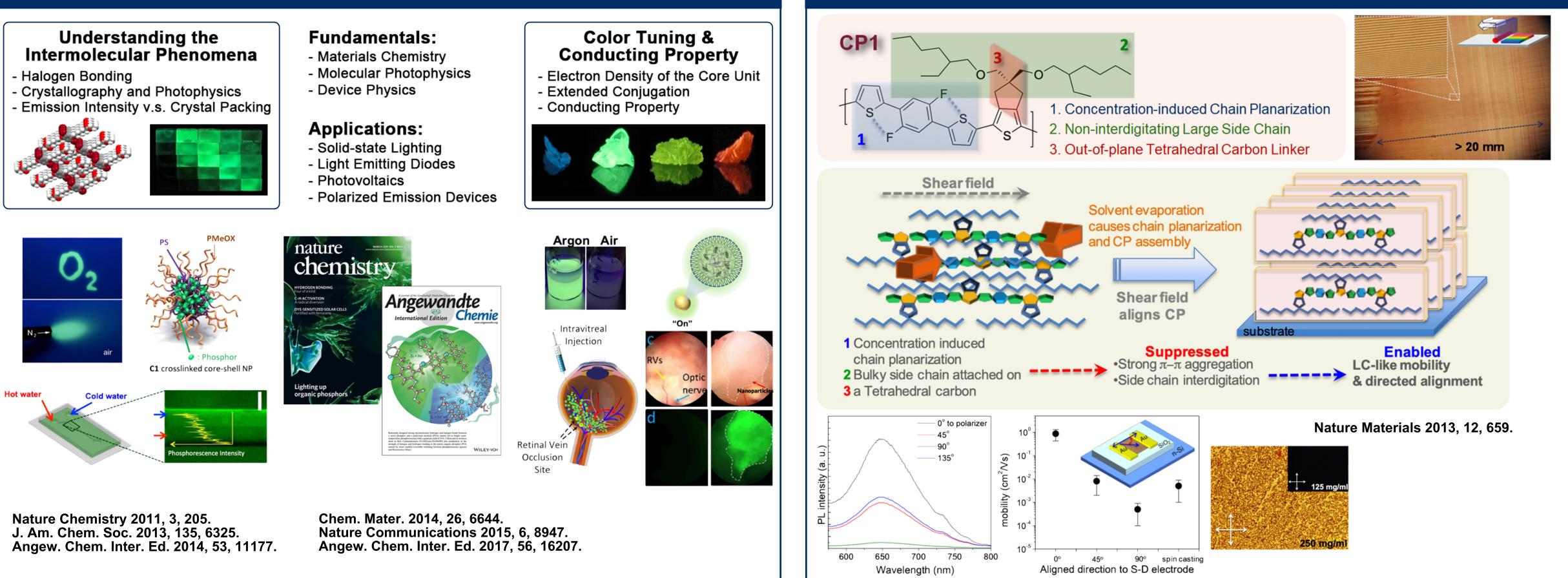
Self-signaling and Signal-amplifying **Optical Sensors**



Lyotropic Liquid Crystalline CP Design for

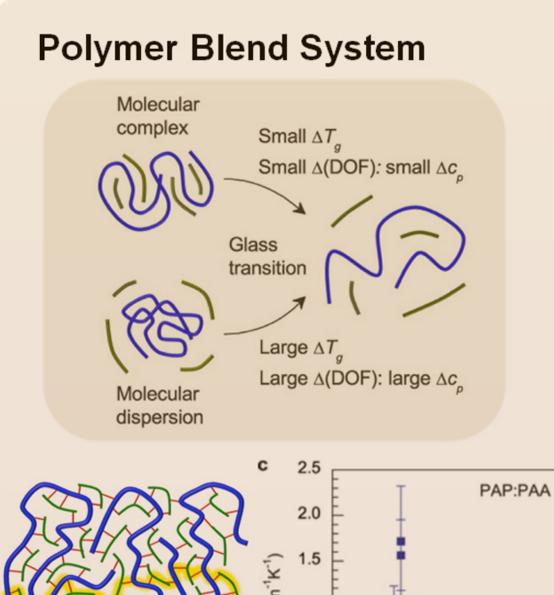
Directed Conjugated Polymer Alignment

Novel Emissive Materials by Design





High Thermal Conductivity in Amorphous Polymers



0.2

0.4

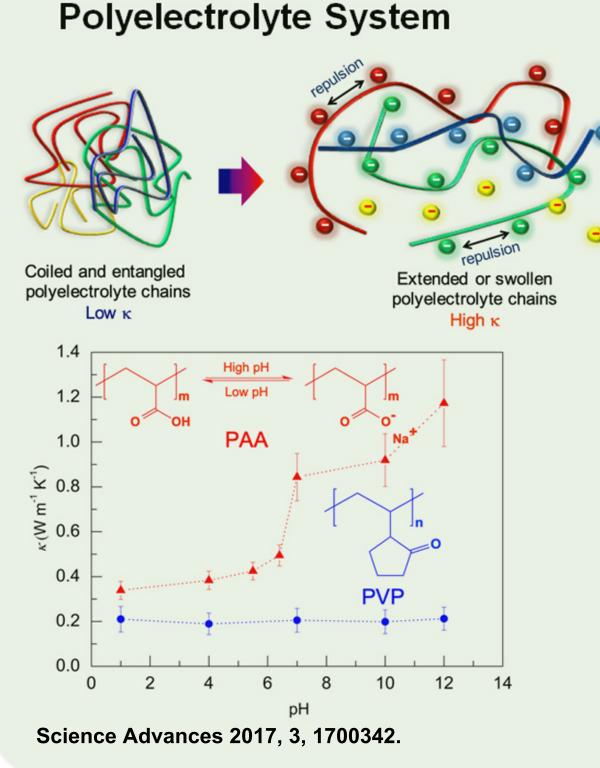
0.0

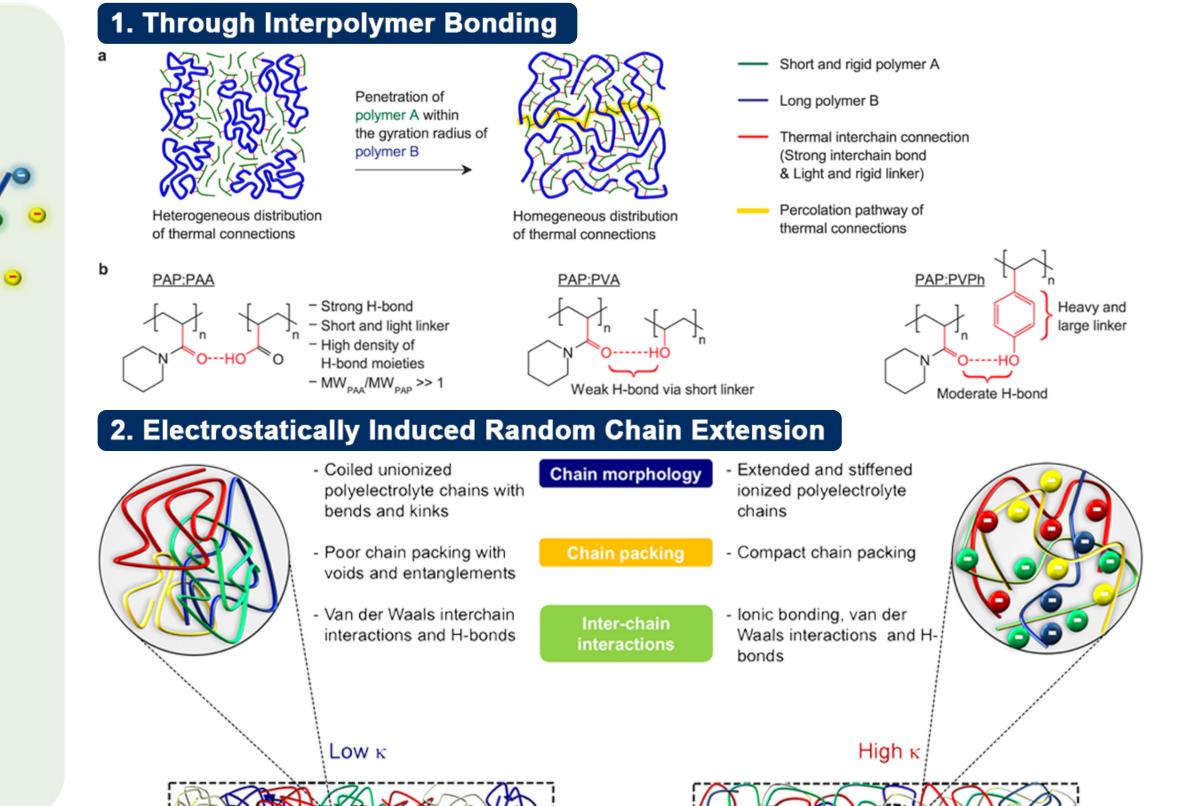
Nature Materials 2015, 14, 295.

0.6

0.8

1.0





Substrate

