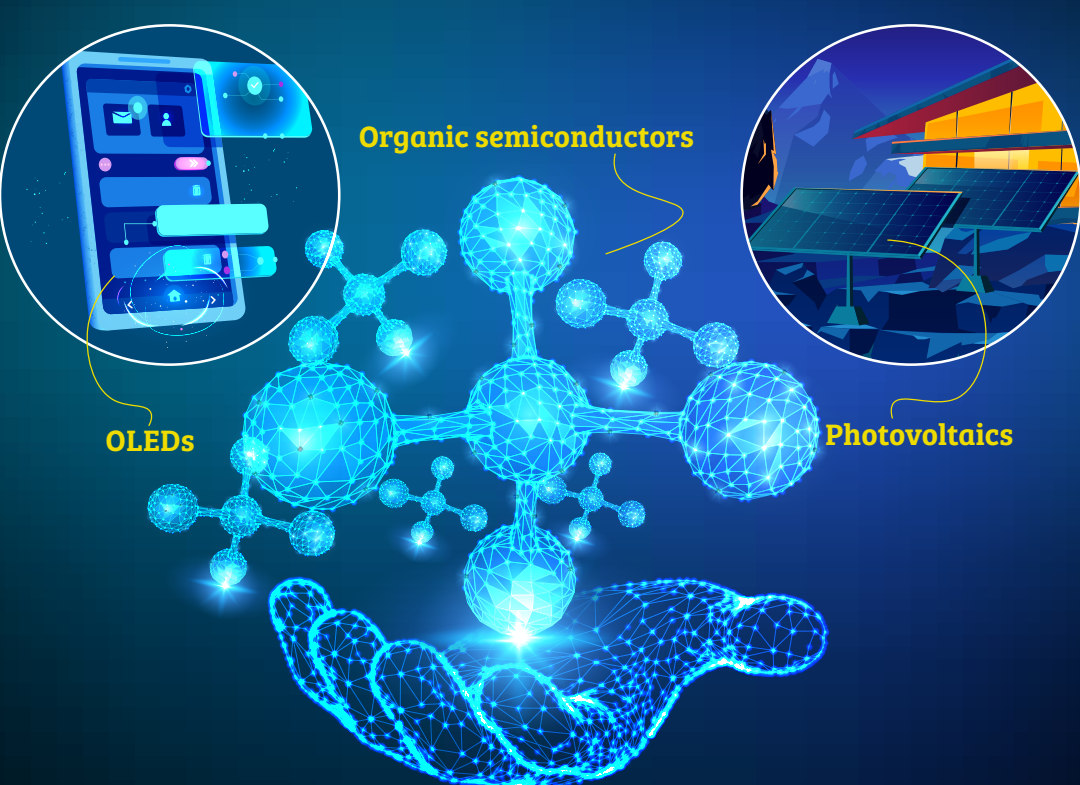


# Fundamental Mechanisms of Charge Transport in Organic Semiconductors

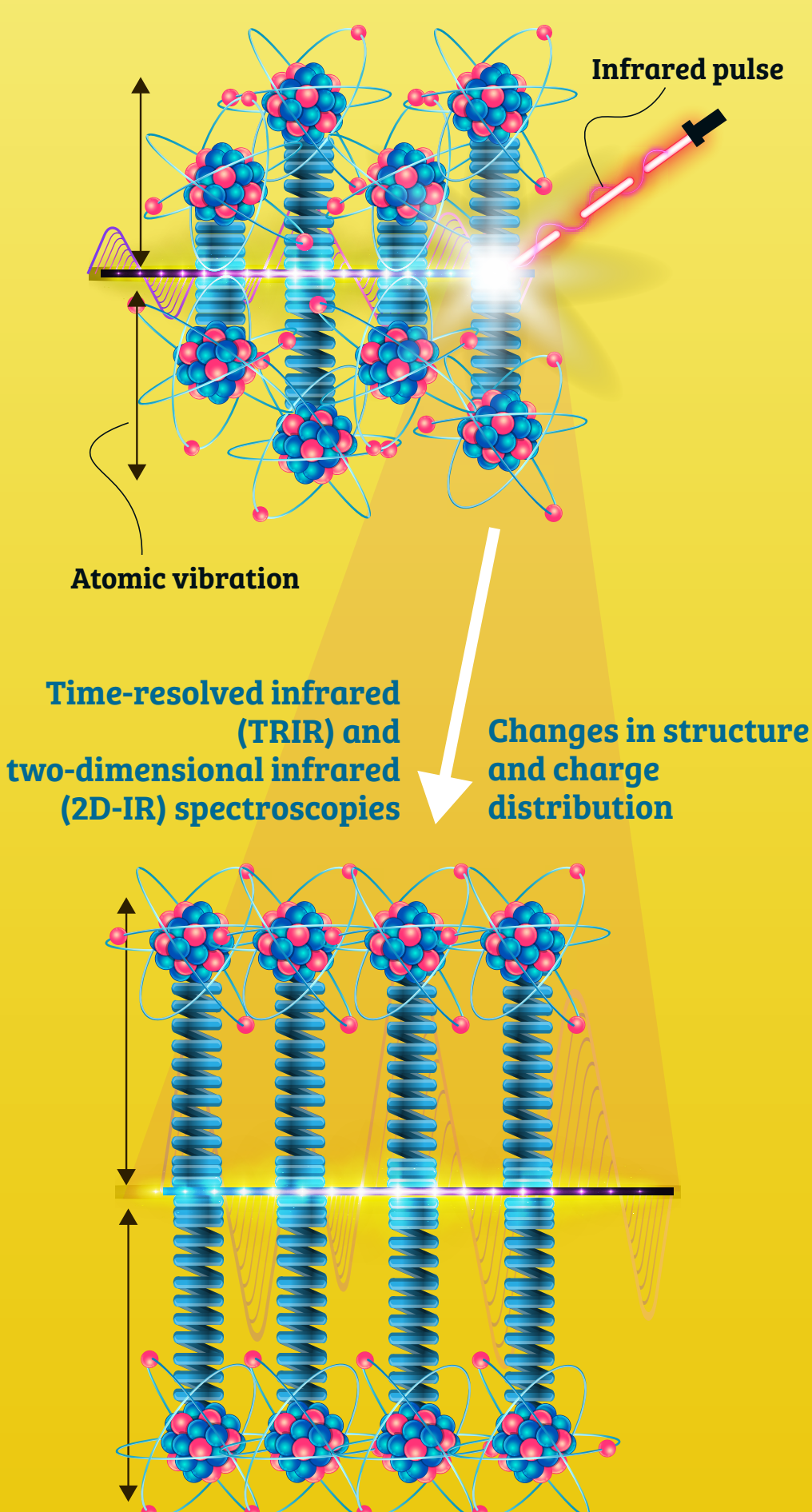
Organic semiconductors are important materials for a variety of applications including display devices and solar cells



Organic semiconductor structures can be endlessly fine-tuned to change their properties

A better understanding of structure-property relationships is required to exploit the versatility of organic semiconductors

Infrared active vibrations (IRAVs) of organic semiconductors are studied using advanced ultrafast time-resolved infrared spectroscopies



IRAVs originate from the strong coupling of charge redistribution to nuclear motion

Ultrafast time-resolved infrared spectroscopy can be used to study structure - property relationships in organic semiconductors and related molecules