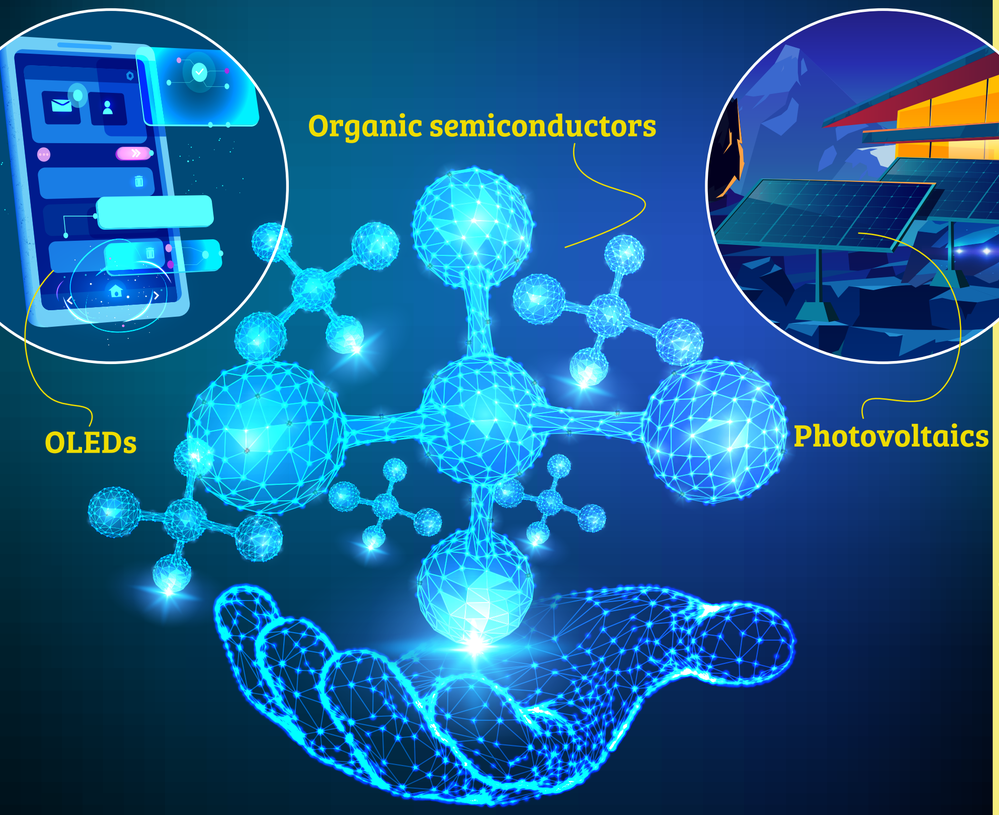
Fundamental Mechanisms of Charge Transport in Organic Semiconductors

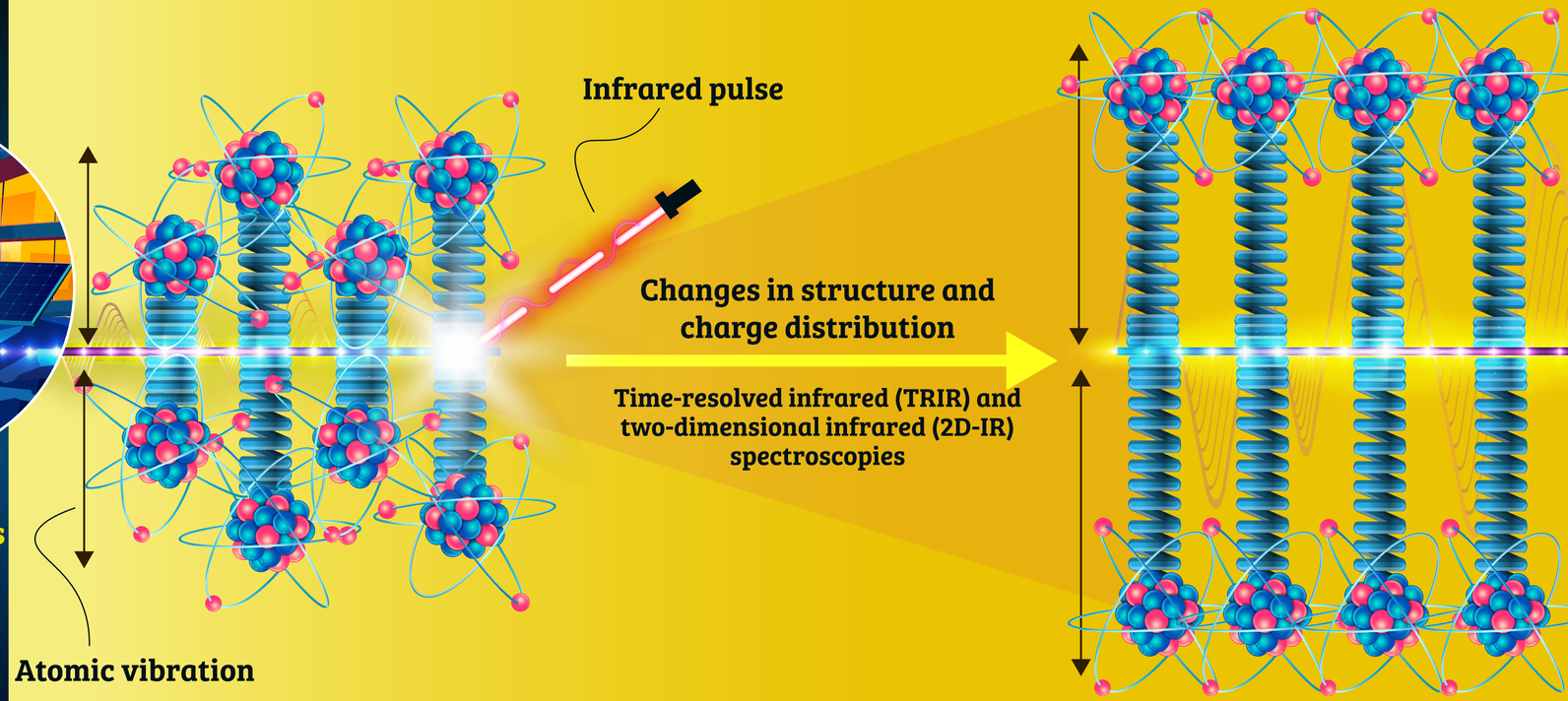
Organic semiconductors are important materials for a variety of applications including display devices and solar cells



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

Chemical Science

PICK OF THE WEEK

Mechanisms of IR Amplification in Radical Cation Polarons

Parker and Anderson *et al.* (2020) | DOI: 10.1039/C9SC05717J

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