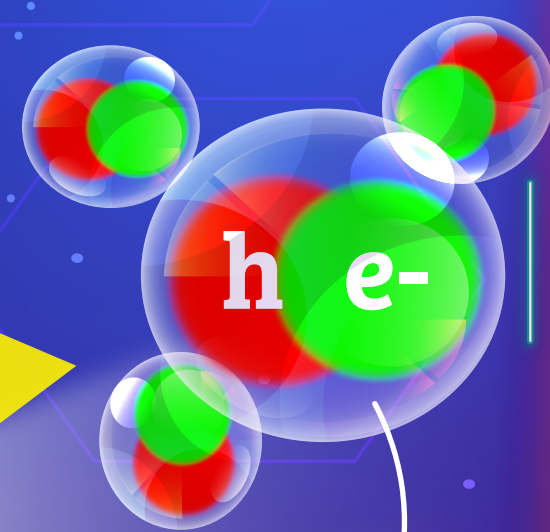


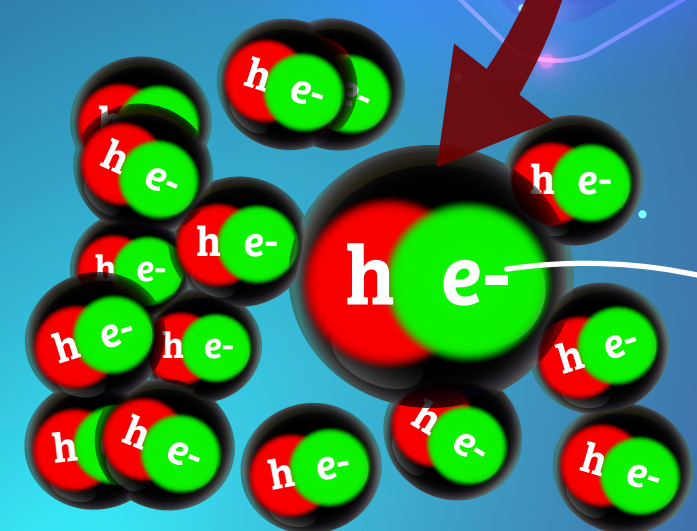
Harvesting Light From Dark States of OLEDs in Reflective Cavity

Organic LEDs (OLEDs) emit light through the generation of singlet excitons...



Bright singlet exciton

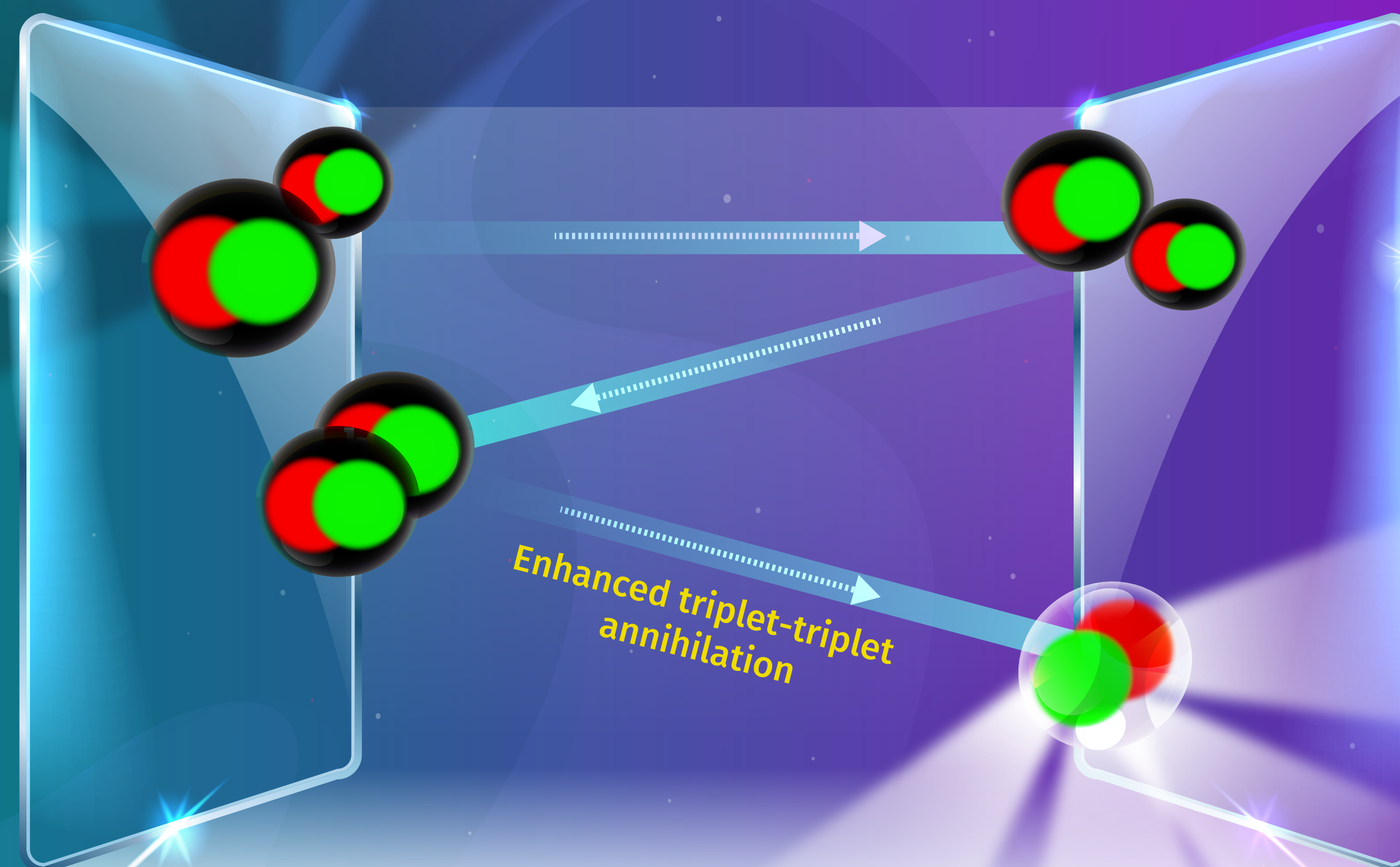
...but the abundance of dark triplet excitons are a potential drawback



Dark triplet exciton

Can the dynamics of dark triplet excitons be manipulated for light emission?

Charge carriers trapped between two silver mirrors with light



Dark exciton states converted to bright polariton states

Dark states of organic LED molecules in reflective cavity can be converted to bright states, significantly increasing the yield of light emitted

Chemical
Science

PICK
OF THE
WEEK

Manipulating molecules with strong coupling:
harvesting triplet excitons in organic exciton
microcavities

Clark and Musser *et al.* (2019) | DOI:10.1039/C9SC04950A

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