



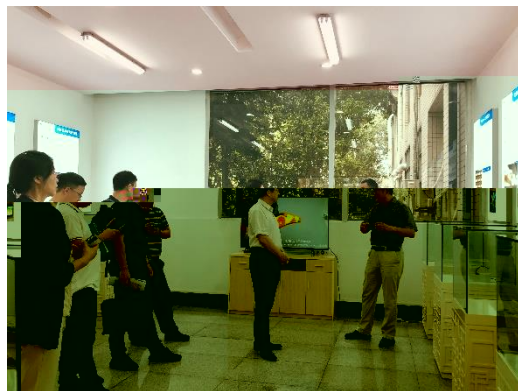
























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*Angewandte Chemie International Edition, Nature Communications, Chemical Science*  
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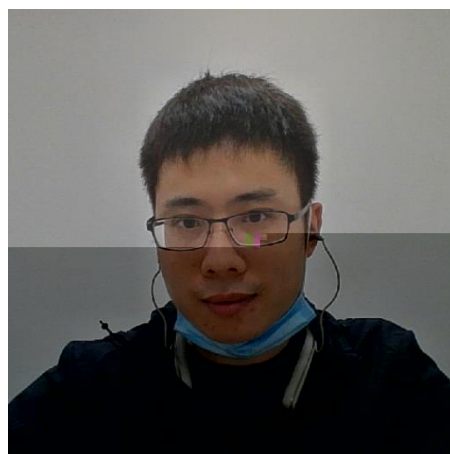




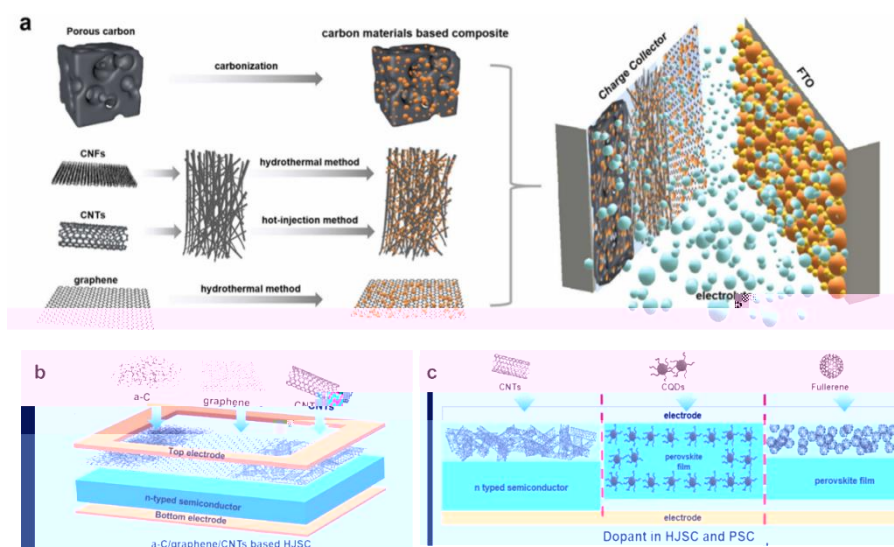








$$\begin{array}{ccccccc}
 & & & E a & D & h & & h & S f d & & h \\
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 & E & & h & & & & & & & & 
 \end{array}$$



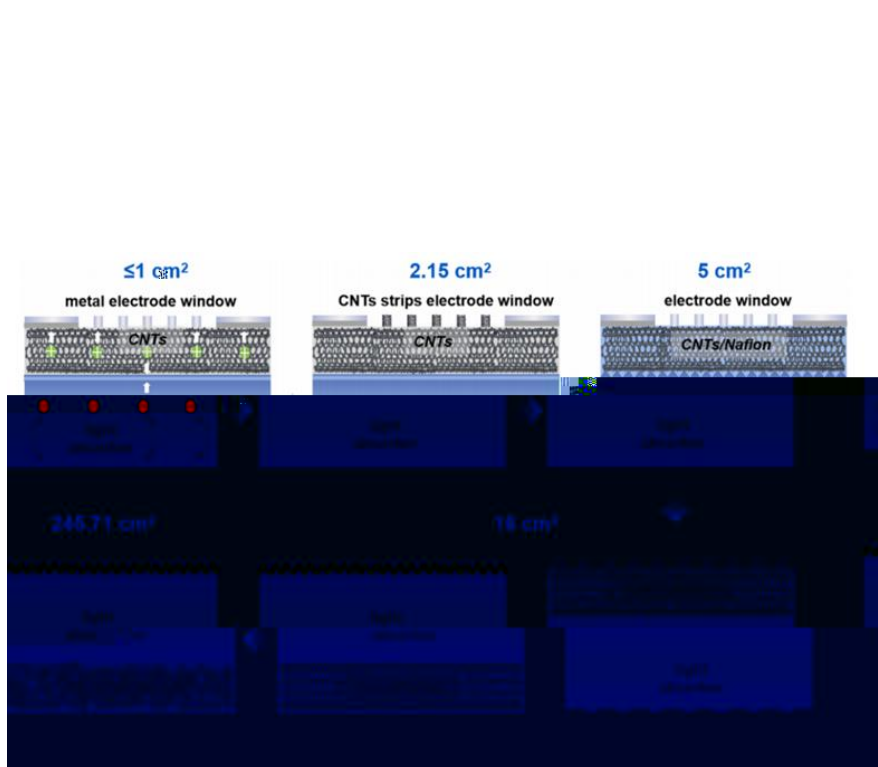
1 a

DSSC

b

a-C

CQD



2 Si/CNTs

$SfdSeE$

$d \quad D \quad Dbad\hat{e}$

$Sfd \quad E \quad D \quad Db$

$E \text{ adfi } Sh \quad f \quad dSd \quad ad \ S \quad f \quad ff \quad a \quad e \ da$

$fb \ e \ S \quad a \quad g \ ei \ f \quad ee \ a \quad a$

$hS \quad SfdSe \quad Sfgd$

$D \ h \ ie \ SfdSe \quad " \quad f \quad dSd \quad ee \ a \quad a \quad g \ Sd \quad e \quad "$

D-A

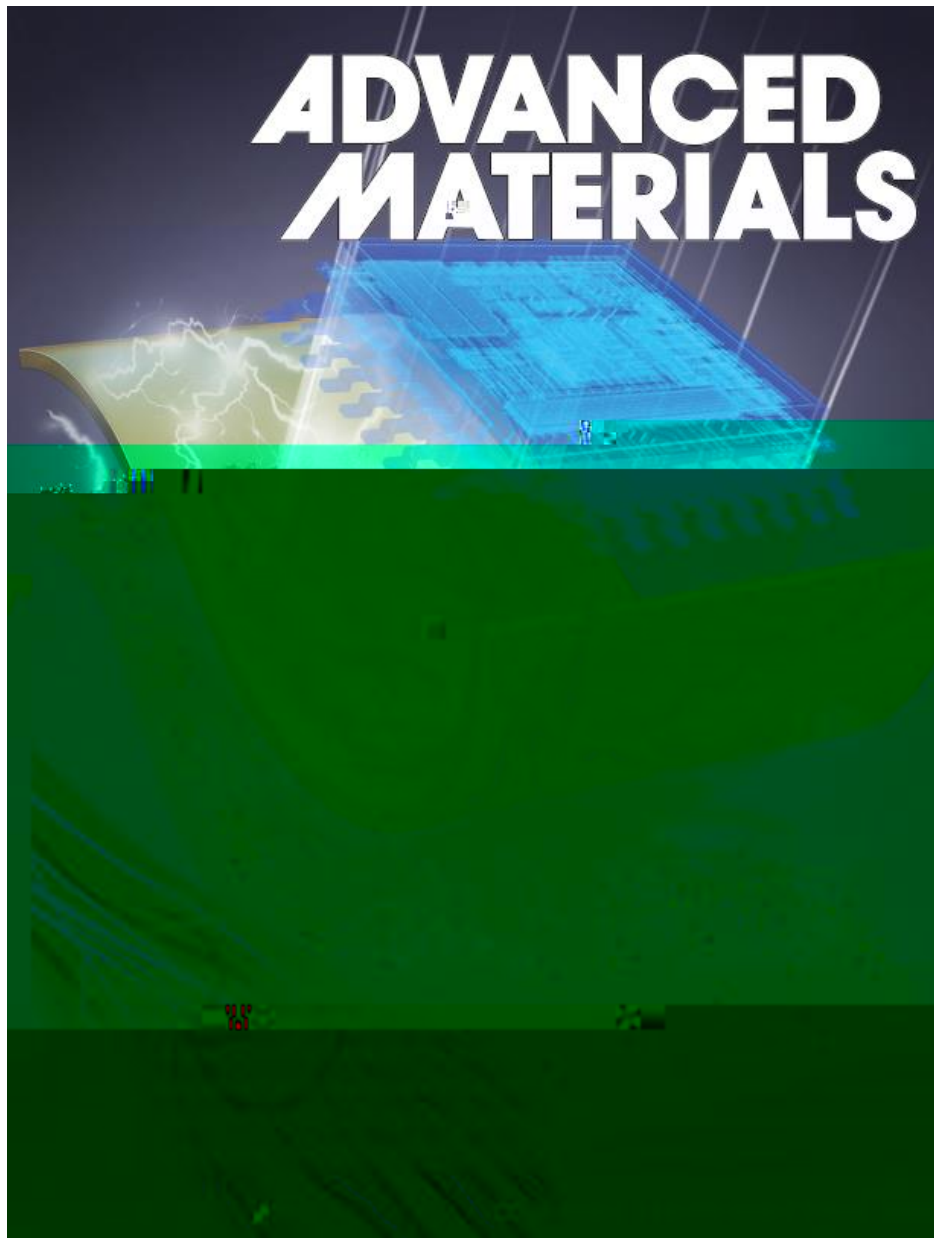
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# Short-Wavelength Infrared Organic Light-Emitting Diodes from A–D–A'–D–A Type Small Molecules with Emission beyond 1100 nm

Wenbin Li, Guojun Ding, Liang Zhang, Shuang Chen, Xiangliang Yao, Yuxin Wang, and Dong



1000–2000 nm

OLEDs

3D

OLEDs

III-V

(QDs)

OLEDs

A-D-A'-D-A

Knoevenagel

D-A

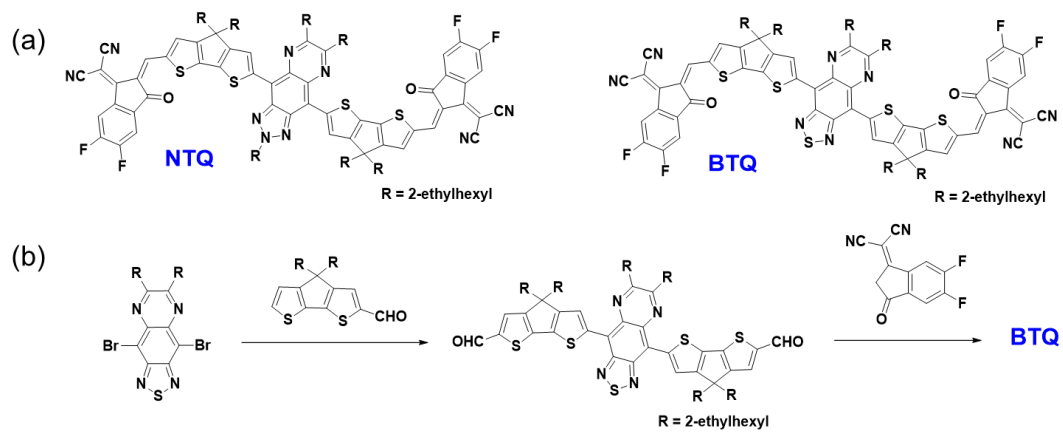
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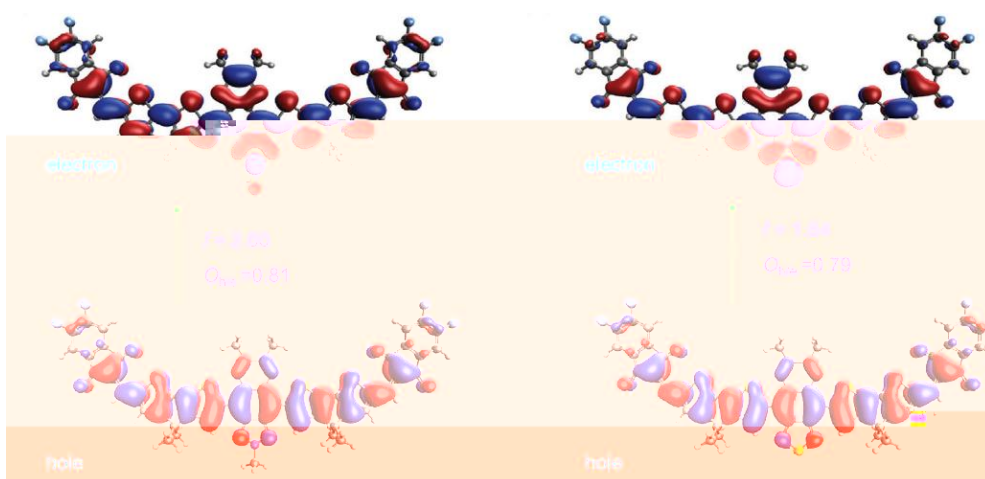
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D A

( $O_{h/e}$ )

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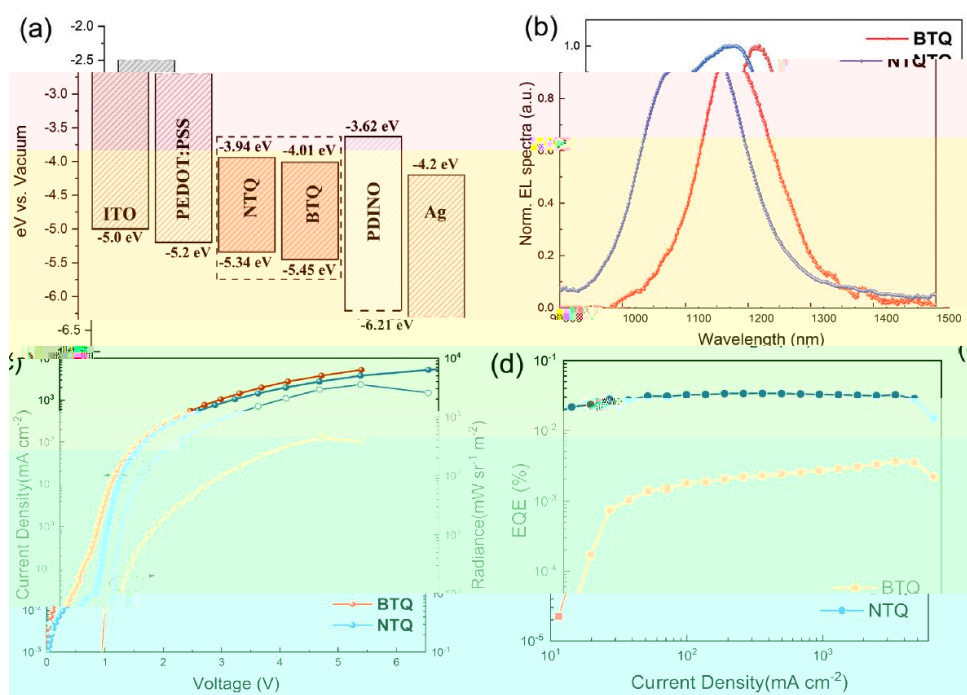


1 (a) NTQ BTQ

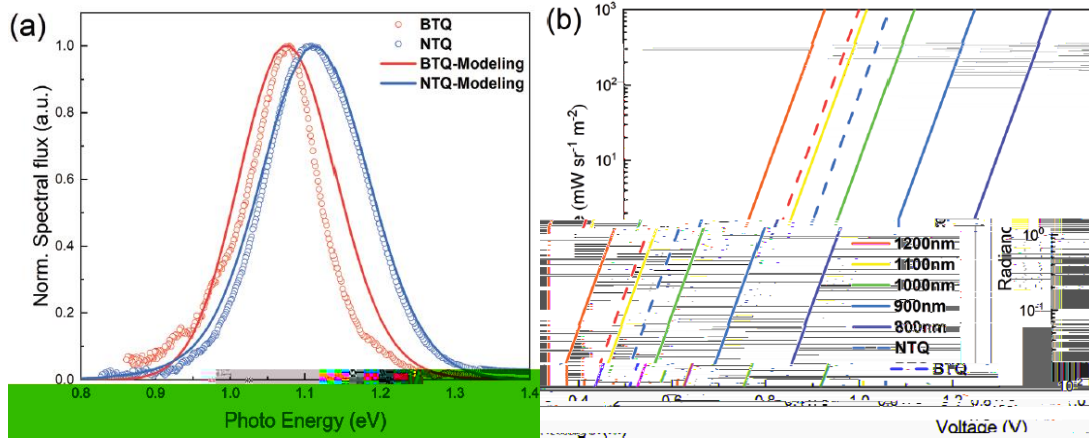
(b) BTQ

(c) NTQ

BTQ



2            NTQ    BTQ



3

(a)

(b)

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