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ladder polymers  
(cLPs), in which  
all the backbone

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units on the polymer main-chain are ?- conjugated and fused, have attracted great interest owing to their intriguing properties, remarkable chem. and thermal stability, and potential

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chains as a consequence of high steric hindrance at the linking point.

Herein, we report the synthesis of a ladderized anthanthrene unit using an  $sp^3$  carbon

bridge. Three conjugated

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Polymers with  
fluorene,  
isoindigo, and  
bithiophene

derivatives have  
been synthesized  
and  
characterized

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Polymers

Graphene is a  
prototype 2D  
conjugated

polymer  
consisting of  
multiple strands  
of

poly(p-phenylene  
that are  
interconnected,  
leading to a

hexagonal  
network of  $sp^2$

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sp<sup>2</sup>-hybridized  
carbon atoms. 8  
Graphene is  
semimetallic in  
nature with zero  
band gap and  
high charge  
carrier  
mobility. 9

Therefore,  
structurally  
defined 2D CPs  
with  $\pi$ -electron  
delocalization

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Polymers  
in two  
dimensions are  
expected to  
offer highly  
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properties for  
organic  
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such as an ideal  
band structure  
for ...

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semiconducting  
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Promising

applications in  
organic

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To date, the  
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linear

conjugated

polymers into

two-dimensional  
conjugated

polymers (2D

CPs), which can

also be regarded

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as 2D

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covalent organic  
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(COFs), remains

largely

unexplored due  
to limited

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chapters written  
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polymers possess  
obvious

advantages

toward inorganic  
materials and  
small-molecule

organic

materials, such  
as light weight,

low cost, and

flexibility.

Furthermore,

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most polymer materials are soluble in common solvents thus polymer films can be prepared through solution process and printing, such as spin-coating, ink-jet and roll-to-roll, which is a critical issue

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designs, which  
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polymers ;  
Comprehensively  
covers these  
soluble,  
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alternating  
copolymers  
containing 3,3'-  
dicyano-2,2'-bit  
hiophene  
(BT2CN), i.e.,  
DPPTH-BT2CN,  
DPPPy-BT2CN and  
2FIID-BT2CN  
based on diketop  
yrrolopyrrole  
(DPP) and  
isoindigo (IID)

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derivatives,  
were  
synthesized. The  
properties of  
these three  
polymers were  
compared with  
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polymer without  
a cyano (CN)  
group, DPPT<sub>h</sub>-  
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(D)-acceptor (A) polymers were studied by designing two types of polymers, (D-?-A)<sub>n</sub> and (D-?-A)<sub>n</sub>, with non-conjugated alkyl (sp<sup>3</sup>) and ?-conjugated (sp<sup>2</sup>) linkers using ?-extended donor and acceptor

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Polymers that exhibit planar A-D-A structures.

The non-conjugated alkyl linker provides structural flexibility to the (D-?-A)<sub>n</sub> polymers, while the ? ...

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