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polymers (cLPs), in which
all the backbone units on
the polymer main-chain are ?-

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in conjugated polymers often
leads to nonplanar main
chains as a consequence of
high steric hindrance at the

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linking point. Herein, we report the synthesis of a ladderized anthanthrene unit using an sp^3 carbon bridge.

Three conjugated copolymers with fluorene, isoindigo, and bithiophene derivatives have been synthesized and

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Properties of multiple
strands of poly(p-phenylene
that are interconnected,
leading to a hexagonal
network of sp^2 hybridized
carbon atoms. 8 Graphene is
semimetallic in nature with
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charge carrier mobility. 9

Therefore, structurally defined 2D CPs with ??electron delocalization in two dimensions are expected to offer highly desirable properties for organic optoelectronics, such as an

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Abstract. Interest in linear
conjugated polymers has

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significantly increased in recent decades due to their semiconducting properties and promising applications in organic optoelectronics. To date, the extension of linear conjugated polymers into two-dimensional

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Conjugated polymers (2D
CPs), which can also be
regarded as 2D ??conjugated
covalent organic frameworks
(COFs), remains largely
unexplored due to limited
synthetic methodologies.

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Conjugated polymers have attracted broad academic and industrial interest for various optoelectronic applications. Conjugated polymers possess obvious

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Advantages toward inorganic materials and small-molecule organic materials, such as light weight, low cost, and flexibility. Furthermore, most polymer materials are soluble in common solvents thus polymer films can be

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Properties And solution
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process and printing, such
as spin-coating, ink-jet and
roll-to-roll, which is a
critical issue for ...

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Three new alternating
copolymers containing
3,3'-dicyano-2,2'-bithiophen
e (BT2CN), i.e., DPPTTh-

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BT2CN, DPPPy-BT2CN and 2FIID-BT2CN based on diketopyrrolopyrrole (DPP) and isoindigo (IID) derivatives, were synthesized. The properties of these three polymers were compared with those of the

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reference polymer without a
cyano (CN) group, DPPTTh-
BT. The introduction of CN
groups dramatically ...

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n-Type conjugated polymers
based on 3,3'-dicyano-2,2

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The photophysical properties of donor (D)-acceptor (A) polymers were studied by designing two types of polymers, $(D-A)_n$ and $(D-A)_n$, with non-conjugated alkyl (sp^3) and π -conjugated

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(sp²) linkers using ?-
extended donor and acceptor
monomers that exhibit planar
A-D-A structures. The non-
conjugated alkyl linker
provides structural
flexibility to the (D-?-A)_n
polymers, while the ? ...

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