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Fully conjugated ladder polymers (cLPs), in which all the backbone units on the polymer main-chain are  $\pi$ -conjugated and fused, have attracted

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great interest owing to their intriguing properties, remarkable chem. and thermal stability, and potential suitability as functional org. materials.

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in conjugated polymers often leads to nonplanar main 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 copolymers with fluorene, isoindigo, and



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bithiophene derivatives have been  
synthesized and characterized

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Graphene is a prototype 2D  
conjugated polymer consisting of

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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 zero band gap and high charge carrier mobility. 9 Therefore, structurally defined 2D CPs with  $\pi$ -electron delocalization in two

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Dimensions are expected to offer highly desirable properties for organic optoelectronics, such as an ideal band structure for ...

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Abstract. Interest in linear conjugated polymers has 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 conjugated polymers

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(2D CPs), which can also be regarded as 2D  $\pi$ -conjugated covalent organic frameworks (COFs), remains largely unexplored due to limited synthetic methodologies.

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are an effective alternative for main  
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Conjugated polymers have attracted  
broad academic and industrial interest  
for various optoelectronic applications.  
Conjugated polymers possess obvious  
advantages toward inorganic materials

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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 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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Three new alternating copolymers  
containing

3,3'-dicyano-2,2'-bithiophene  
(BT2CN), i.e., DPPTTh-BT2CN, DPPP<sub>y</sub>-  
BT2CN and 2FIID-BT2CN based on  
diketopyrrolopyrrole (DPP) and

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isindigo (IID) derivatives, were synthesized. The properties of these three polymers were compared with those of the 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 ...

The photophysical properties of donor  
(D)-acceptor (A) polymers were  
studied by designing two types of  
polymers, (D- $\pi$ -A) $_n$  and (D- $\sigma$ -A) $_n$ , with  
non-conjugated alkyl (sp<sup>3</sup>) and  $\pi$ -

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conjugated ( $sp^2$ ) linkers using  $\pi$ -  
extended donor and acceptor  
monomers that exhibit planar A-D-A  
structures. The non-conjugated alkyl  
linker provides structural flexibility to  
the  $(D-\pi-A)_n$  polymers, while the  $\pi$  ...

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